2021

# Master Catalog




CELEBRATING 75 YEARS OF SERVICE. 1946 – 2021

RICE LAKE®
WEIGHING SYSTEMS

800-472-6703
www.ricelake.com

# A Legacy of Weighing

Rice Lake Weighing Systems is a family-owned, ISO 9001 certified corporation, and was established in 1946 as a scale service shop in Rice Lake, Wisconsin, USA.

Since then, the company has grown to become an international manufacturer and supplier of measurement and process control equipment.

Through all of our growth and changes, the same founding philosophy has held true: Take care of the customer and the rest of the business will take care of itself.




## 1946

Thomas and Johnson Scale Service is established in Rice Lake, Wisconsin. There is high demand for scale service in the area due to thriving creamery, cheese and lumber businesses.

## 1960

Thomas and Johnson offers refurbished and new mechanical spare parts. The company sends customers empty army surplus ammunition boxes, asking they ship back their parts to have them refurbished in record time. The cost is 60 cents per pivot or bearing.

## 1971

Thomas and Johnson Scale Service becomes Rice Lake Bearing, Inc. and subsequently relocates to a larger building within the same city. Soon, they will construct Rice Lake's mass calibration and metrology lab.

## 1981

Electronic parts and components are added to the Rice Lake catalog, ushering in a new frontier for weighing.

## 1984

Rice Lake Bearing becomes Rice Lake Weighing Systems, offering a complete line of quality products and customer support.

## 1998

Rice Lake acquires offices in Mexico, establishing Rice Lake de Mexico which becomes the company's Latin and South American office.

## 1999

The pressure and weighing instrumentation manufacturer Condec located in Connecticut is acquired by Rice Lake.

## 2000

Rice Lake partners with Ishida, a Japanese manufacturer, to offer retail weighing and wrapper equipment.
















## 2005

Rice Lake acquires Powell Scale in Alabama to expand heavy capacity manufacturing.

## 2011

NORAC Systems International, a Canadian agriculture weighing company, is acquired by Rice Lake.

Rice Lake Weighing Systems India Ltd. is created through a joint venture between Rice Lake and Strategic Weighing Systems in Chennai, India.

## 2012

Measurement Systems International (MSI) based in Washington is acquired to broaden Rice Lake's overhead weighing product line.

Rice Lake establishes a manufacturing facility in Nevada to increase manufacturing capacity.

## 2013

Master Engineering B.V. in the Netherlands is acquired by Rice Lake, expanding our reach to Europe.

## 2016

Dini Argeo, founded in 1846 and based in Italy, is acquired by Rice Lake to strengthen our global presence.

Heusser Neweigh metrology lab in California is acquired by Rice Lake.

## 2018

Rice Lake opens a new manufacturing facility in Alabama to increase heavy capacity production.

## 2020

Rice Lake acquires The Postea Group in Massachusetts to advance the development and manufacturing of dimensioning equipment and software.

# Train for **Excellence**

Rice Lake Weighing Systems' training courses have something to offer everyone. From general product lines to programming and sales, Rice Lake's flexible, expertly taught classes are built to benefit the student, no matter the experience level. There are even specialty classes designed for unique product lines. Learn at your own pace, and gain hands-on skills you and your team can use during real-world sales and service calls.



## Apply for a class today!

**Visit www.ricelake.com/training**

to fill out an online application and view our complete training schedule and course descriptions,

**or call 800-472-6703** and ask to speak with our training coordinator.









RICE LAKE TECHNICAL TRAINING SEMINARS

# World Class Instructors

## **Over 500 Years** of Scale Experience

Pictured are some of Rice Lake's many skilled instructors. Our team is composed of senior staff members specializing in technology, sales, project management and more. With years of experience and unmatched industry knowledge, students in every course learn from the very best.

## Flexible Learning Options

**Rice Lake Location Courses:**
*In-house instruction by experts at Rice Lake Weighing Systems' corporate headquarters.*

**International Courses:**
*Our instructor network periodically offers training overseas, available in multiple languages.*

**Off-Site Courses:**
*Our instructors bring technical training to your region.*

**Online Courses:**
*Complete anywhere, at your own pace.*

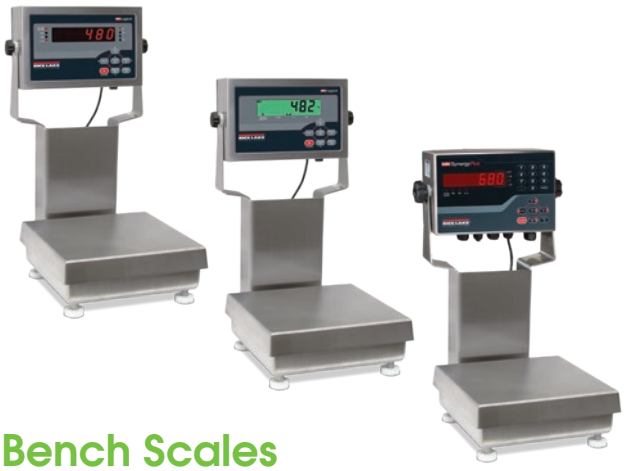
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in your 2021 Master Catalog...



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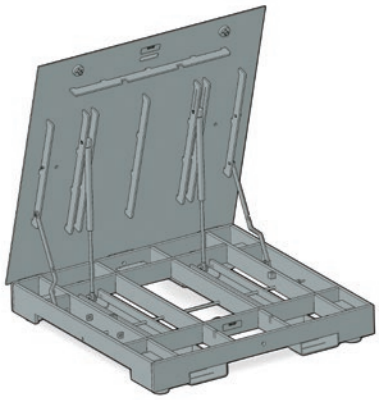


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| FREIGHT SERVICES OFFERED | "SMALL PACK" | LTL | TRUCK LOAD |
|---|---|---|---|
| Nationwide Same Day Service | Y* *** | Y* | N |
| Next Day (AM) | Y** | Y** | Y** |
| Next Day (END OF DAY) | Y | Y** | Y** |
| 2 Day | Y | Y | Y |
| 3 Day | Y | Y | Y |
| Ground | Y | Y | Y |
| Canada | Y | Y | Y |
| Mexico | Y | Y | Y |
| Express Freight (Air-over 150 lb)*** | Y | Y | N |
| International (Sea) | Y | Y | Y |
| International (Air) | Y | Y | N |

** Subject to cost/distance*

*** Subject to distance*

**** Subject to flight availability and proximity of nearest airport*

### Same Day Services

These services do not carry the same service guarantees that standard delivery schedules do and are subject to availability.

### Small Parcel Services

We ship with internationally recognized parcel carriers based on delivery time and services offered.

### Determining Dimensional Weight for Small Parcel Shipments for Air and Ground

When shipping via air services, couriers require that the shipping weight be determined by the greater of the actual weight of the boxed product or its dimensional shipping weight. The formula for calculating dimensional shipping weight is as follows:

Domestic shipments via Ground or Air: L x W x H/139.

International air shipments L x W x H/139.

Please note: Rice Lake Weighing Systems takes the added precaution of double-boxing some of our electronic products and balances. This may result in higher dimensional weight charges by the carrier. Even with this added precaution, we suggest that you always ship high precision and fragile products via air services to reduce excessive handling.

### Less Than Truck Load (LTL)

Full service LTL coverage for the continental United States, Puerto Rico, Canada and Mexico.
Note: A standard LTL delivery is considered to be one that ships from either a company or partner dock to arrival at a standard commercial address with disposition of the goods at the rear of the truck to enable off loading by material handling equipment provided by the consignee at either ground level or via loading dock. Allied to this, the freight in question should be palletized and secured in a way to facilitate the safe handling of the freight with no one dimension over seven feet, six inches.

Any LTL delivery falling outside of this criteria may well accrue accessorial charges levied by the carrier in line with their tariff rules. It is recommended that any potential accessorial cost are discussed at the time of order placement so that these costs can be billed appropriately at the time of shipment. If this is not the case, Rice Lake reserves the right to charge the customer retrospectively for any accessorial costs incurred during the delivery process.

**Accessorial charges include, but are not limited to the following:**

Lift gate, call for appointment and guaranteed delivery: Day and by 10:30 a.m. (where available). Excessive length, inside delivery
**NOTE: To inside of first threshold crossed only,** high cost delivery areas such as government sites and mines, re-delivery, re-consignment, residential and restricted access shipments. All prices are available on request.

### Full Truckload

Various truckload providers give us the ability to ship to the contiguous United States, Alaska, Canada and Mexico.

### Forwarders (International Freight)

We can provide service through a forwarder of our choice, or select one of your preferred forwarders.
**Air freight:** All of our forwarders are internationally recognized brands.
**Ocean freight:** All of our forwarders are internationally recognized brands.





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# Shipping Information

## Rice Lake Weighing Systems Freight Claims Procedure

Incidents can happen anytime between a package's departure from Rice Lake's loading dock and the time you receive it. For that reason, we are asking you to follow the procedures below when receiving a shipment.

The Bill of Lading (BOL) or Delivery Receipt (D/R) is the only record of the product's condition when it arrives at your site. If you do not inspect a shipment before signing, you are essentially waiving the right to collect on a damage claim regardless of whether the damage is visible or concealed. Your signature on a delivering carrier's BOL or D/R constitutes acceptance of the merchandise "as is." This proof is essential in filing a claim and holding the responsible parties accountable for items damaged or missing while in transit. Remember, once you sign, the goods and the responsibility are yours.

## Receiving a Shipment

- Check immediately for possible damage during shipment. Inspect, examine and inventory your delivery as it is unloaded.
- Open cartons and containers. Any suspicion of damage or shortage must be noted on the BOL or D/R. This information must include the item, discrepancy and condition of the item in question. If this is NOT noted, the liability to prove the damage was done by the delivering carrier is your responsibility.
- The driver cannot leave your receiving dock until the BOL or D/R is signed, regardless if they are behind schedule or not. Do not be intimidated by the driver.

## Damaged Shipment

- Discovered Damage: If the box, crate or merchandise is visibly damaged, beyond what you would consider to be normal shipping wear and tear, refuse the delivery and request a Return Authorization Number from the driver in order for the shipment to be sent back to its origin at no charge.
- Concealed Damage: Immediately document and photograph the damage and packaging. Keep all crating and packaging material with the damaged item(s) for inspection by the company's claim inspector until told to either return or dispose of the item(s). The item should be moved minimally; only to an area where it can be inspected by the carrier or their agent.
- Keep a second copy of the BOL or D/R noting the damage and the driver's signature.
- Call your Rice Lake Weighing Systems customer service representative to report the shortage and/or damage. Ideally, the call should be made before the driver leaves the site.

At this point, a claim for concealed damage will be started and an inspection will be requested. The inspector will determine if the damage was possibly caused by the carrier. A report and claim must be filed with the carrier within seven days after delivery. The sooner concealed damage is discovered and reported, the better.

## Small Parcel Shipments

In general, it is the policy of small parcel carriers to NOT deliver damaged packages but rather take them back to the distribution center for evaluation. HOWEVER, that does not always happen. Occasionally if the package is deemed to be ok, it will be re-taped and delivered to the consignee. If damage is noticed while still at the distribution center, a notation should have been entered into the system.

If you do receive a package that appears to be damaged you can either refuse as damaged or you can accept the damaged package and report the damage (immediately) to your customer service representative here at Rice Lake with the tracking number. They will, in turn, contact the relevant team member from their support group so the claims process can be started. It should be noted that **Drivers do not normally note the package was damaged until it is brought back to the distribution center and a clerk does that.**



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# Signed Sealed Delivered... It's yours!

**On average, regardless of carrier, 2% of all freight is damaged in transit. Don't let the delivery person slip away. And don't get left holding the bag.**

Rice Lake merchandise is packaged carefully to arrive at your location on time, intact and in perfect working order. We don't ship damaged goods, and we work with many of the most reputable national carriers. But know this—anytime a package is sent, as many as 2 out of 100 will be mishandled. To be sure your business doesn't take the hit for someone else's mistake—INSPECT before you sign.

Whether or not the product itself has been damaged, remember—your signature accepts the delivery as is, releasing the carrier and supplier of all liability, unless you take action:

- Make note of any damage to the packaging, no matter how slight, including re-packaging, water damage, scratches to paint, etc. Take photos if possible to back up any necessary claims.
- Do not accept or sign for as "unchecked"—this is not an acceptable disclaimer.
- Where damage to contents is obvious, take photos and refuse the shipment.

Notify your supplier immediately with the claim number provided by the driver. Noting the condition of your delivery upon receipt is the only recourse when making a damage claim. Follow these steps and you'll get replacement merchandise faster, keep costs down and ensure the carrier is held responsible for their mistakes; not you, and not your supplier.

RICE LAKE®
WEIGHING SYSTEMS

800-472-6703
www.ricelake.com

# Customer Service Contacts

At Rice Lake Weighing Systems we strive to give you the best customer service in the industry. You can depend on our knowledgeable staff to deliver decisive, courteous assistance when you need it most.

Customer Service Representative Hours (CST):
Monday through Friday 6:30 AM to 6:30 PM; Saturday 8:00 AM to Noon

## United States and Canada Field Sales



**Michael Bordino**
Southeast Region
715-434-5079



**Tim Campbell**
Great Lakes Region
715-434-5067



**Jeff Canfield**
Allegheny Region
715-434-5081



**Jim Gruchalla**
Lower Midwest
715-434-5084



**Chris Hanson**
Midsouth Region
715-434-5069



**Reggie Mabe**
Eastern Canada Region
715-434-5049



**Monte Martinson**
Northwest Region
715-736-6466



**Jim O'Brien**
Northeast Region
715-736-6487



**Murray Stewart**
Western Canada Region
715-434-5194



**Jeff White**
Southwest Region
715-434-5047



**Steve Delaney**
Regional Sales
715-434-5293

## International Field Sales



**Manuel Talancon**
International Sales Director



**Martin Devilla**
Rice Lake de Mexico
715-434-5258



**Jose Mathew**
Middle East/Asia/Africa
715-434-5048



**Jaap Oosterlee**
Master Brand Europe
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**Frank Da Silva**
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## Customer Relations



**Mark O. Johnson**
Chief Executive Officer



**Mark Johnson, Jr.**
President



**Steve Parkman**
Chief Operating Officer



**Nick Peterson**
Chief Financial Officer



**Joe Grell**
Vice President Heavy Capacity



**Steve Hersman**
Vice President of Global Sales



**Tom Kowalski**
Vice President of Technology



**Patrick Ranfranz**
Vice President of Marketing



**Tom Guest**
Sales Resource Manager



**Tim Donahue**
Senior Manager, Product Management



**Guru Ganesh**
Managing Director, India



**Walter Hendriks**
Managing Director, Master Brand, Europe



**Dominic Hodkiewicz**
Vice President of Manufacturing



**Massimo Corrandini**
General Manager Modena, Italy



**Enrico Tosi**
Chief Financial Officer Modena, Italy



**Kevin Marshall**
Logistics Manager



**Jim Norvid**
Director of Mechanical Engineering



**Brandi Harder**
Quality Manager

## Inside Sales



**Deanna Stanley**
Inside Sales Supervisor



**Eric Butzler**



**Becky Clausen**



**Sonya Hegle**



**Zach Hovey**



**Keven Jensen**



**Stacie Lashmett-Stoeberl**



**Gene Marquardt**



**Jason Mathews**



**Markus Narins**



**Len Nicpon**



**KC Peterson**



**Ray Pumala**



**Ali Richter**



**Russ Schnacky**



**Mike Solie**



**John Tennant**



**Lynnette Thompson**



**Kally Wagner**





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# Customer Service Contacts Continued

## Sales Engineers



Kyle Messerly
Technical Support Manager



John Eisele



Doug Hagie



Darin Ides



Chris Lancaster



Sharon Miller



Efrain Molinari
Habla Español



Mike Schilling



Rob Shofner



Marvin Stodola

## Medical Sales



Kurt Labanowski
Medical Sales Director
715-434-5430

## Heavy Capacity Sales



Karen Hansen



Tony Zillmer



Markus Narins
Sr Technical Customer Service Representative

## International Region



Peter Allen
Export Customer Service Supervisor



Jennifer Krahenbuhl



Gloria Miranda
Habla Español



Bobbie Stiver
Habla Español
Parle Français

## Livestock Sales



Andy Burish
Product Manager



Keven Jensen
Technical Customer Service Representative



Markus Narins
Sr Technical Customer Service Representative



Len Nicpon
Technical Sales Specialist



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# Customer Service Contacts Continued

## Technical Support


Alan Dobrowolski


Joe Heinicke


Mark Hopland


Peter Jacobs


Torey Nelson


Brehven Oehlke


Preston Reed


Brady Reetz


Scott Ross


Greg Stager
Parle Francais


Gabriel Ruberti


Layne Siverling

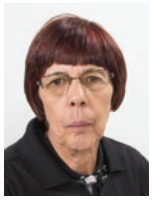

Joel Thompson


Mark Ware


Don O'Connell
Retail

## Repair Department


Phil Stoeberl
Electronic Assembly Repair Manager


Diane Gagner
Warranty/Returns


Lisa Maciosek
Warranty/Returns


Randee Bauch


David Deitz


Deb Hayton


Dale Koehler


Tracy Lavaliere

## MSI


Joe Robinson


Brian Veitch

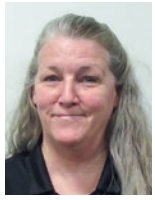

Phil Gray
Director of Operations


Bob Davis
Field Sales Engineer


Patrick Hillman
Technical Sales & Service Specialist


Rob Nelson
Engineering Manager


Jack Nelson
Technical Sales Specialist


Sue Radowick
Inside Sales

## Receptionists


Terica Schamberger
Support Department Supervisor/Sales Referral Coordinator


Tammy Kline


Trish Schultz


Sam Solie

## Financial Services


Lynette Marshall
Financial Services Supervisor


Wendy Boese


Terri Brinker


Nicole Dostal


Marcia Fankhauser


Melissa Olson

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Citizen®
ConnexLink™
ControlNet®
Conxall®
CRS™
Cubis®
Datalogic QuickScan®
Datamax-O'Neil®
DeviceNet™
Dial-O-Gram®
DIGI®
Discovery™
Dymo®
EPL®
EPL2®
EPSON®
ESC/POS®
Excel™
Explorer®
Fairbanks™
Flintec™
Genius®
Hewlett-Packard™
Howe™
IBM®
InCal™
Intel®
Interchange®
Intercomp CS™
Intercomp PT300DW™
Intercomp PT300™
IONMASTER™
iPAQ™
ISOBAR®
ISOBLOK®
JavaPOS™
LabelView™
LifeGuard™
Linux®
LoopTracker™
Lotus™
Maxi-Scoop™
MaxWax™
Microline®
Microsoft®
Midrics®
MIFARE®
Minebea Intec
Mobile 5.0™
Motiontrap™
Motorola ColdFire®
MS-DOS™
NatraSorb®
Novell®
OHAUS®
OKI®
Pax®
pcANYWHERE®
Peachtree®
Pioneer™
PowerCell®
Powerware®
PreVent™
Prodigy Max™
Prodigy™
Profibus®
ProPrinter®
Quencharc®
Quickbooks®
QuickScan®
QuikSharp™
R Stahl®
Ranger™
Rapid Exchange®
Rockwell Automation®
Roman and Swiss™
S4M™
Sartorius®
Scout Pro®
SI®
STAR®
The Crosby Group LLC®
SUREFOOT™
Symbol®
TekLynx®
Toledo®
Torque™
TRANSCORE®
Trooper®
Turck®
Valor®
Voyager®
Vulcan®
WinCT®
Windows®
WinWedge®
Xscale®
XTend-PKG™
Zebra®
ZigBee™
ZPL®



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The terms "buyer," "authorized reseller," and "customer" as used herein, shall mean the party placing the purchase order with Rice Lake Weighing Systems. No contractual relationship between Rice Lake Weighing Systems and said party shall arise until such time as a purchase order has been accepted by Rice Lake Weighing Systems and such acceptance has been indicated on a written acknowledgment. Orders shall be subject to Rice Lake Weighing Systems' standard terms and conditions as printed below, subject to correction for clerical errors.

Any conditions stipulated by the buyer which are in contradiction to these sales terms and conditions shall only be valid if expressively acknowledged by Rice Lake Weighing Systems in writing.

## 1. Prices

(a) Rice Lake Weighing Systems (Rice Lake) prices are net 30 days Ex Works Rice Lake plants. Orders are subject to approval of our credit department with rights reserved to change or withdraw credit terms without notice and to terminate any orders when invoices for work done thereon have gone unpaid for 60 days.

(b) Prices do not include taxes of any kind by federal, state, municipality or other governmental authority, which Rice Lake may be required to collect or pay with respect to the sale or shipment of goods sold hereunder. Regardless of when any such taxes are determined or become payable, all taxes would be the responsibility of the customer and would be in addition to the prices quoted hereon.

(c) This quotation is made upon the basis of the cost of materials and labor as of the date of this quotation. A change in such costs shall give Rice Lake the right to alter prices to reflect such changes in cost.

(d) Requests for additional documentation, drawings, audits of factories or inspection of equipment in-process, additional testing, additional inspections and record retention will be quoted as a separate item even if we have already issued quotations for products and services.

## 2. Shipment, Title, Risk of Loss

(a) All shipments are Ex Works point of shipment. Title and risk of loss or damage passes to the customer upon presentation of the goods to the customer's carrier at Rice Lake's facility.

## 3. Quantity, Materials and Tolerances

(a) Rice Lake assumes no responsibility for loss or damage occurring by reason of delay or inability to deliver caused by fires, strikes, accidents, embargoes, car shortages, delays of carriers, insurrection, riots, acts of the civil or military authorities, nor will we assume responsibility for any reason whatever for damages of any kind on account of failure to deliver at the time specified. The customer shall indemnify and hold Rice Lake harmless from all direct and consequential costs and damages resulting from such loss or delay.

## 4. Weight Calibration Services

The uncertainty of measurement is included in the decision rule in determining pass/fail criteria of the Maximum Permissible Error (MPE).

## 5. Patents

If this quotation covers parts made specifically for the customer, the customer agrees to indemnify and hold Rice Lake harmless against any loss resulting from infringement of patents or trademarks, or from claims of such infringements and shall pay all legal and defense costs incurred by Rice Lake in the defense of such actions.

## 6. Software

Unless specifically otherwise stated, any and all software associated or part of any product sold, loaned on trial or demonstration to the customer is to be considered proprietary to Rice Lake. The customer agrees not to duplicate for distribution or to sell or distribute in any way without the prior written consent of Rice Lake.

## 7. Changes and Cancellation: Rejection, Claims

(a) Orders placed with Rice Lake are not subject to cancellation, change or reduction in amount or suspension of deliveries except with Rice Lake's consent and upon terms that indemnify Rice Lake against loss. Unless confirmed in writing, all verbal agreements are void.

(b) Rice Lake will not be responsible for changes in design, deliveries or other instructions, unless they are furnished in writing. The customer agrees to pay for all tooling charges caused by changes in design or specifications.

(c) Samples submitted shall be deemed approved unless written rejection is received within two weeks of submission.

(d) Manufactured parts will be shipped and billed as they are produced.

(e) Claims for shortage or rejections for defects must be made within 10 days of receipt of goods. Credit will be rendered on such defective parts after we have had an opportunity to inspect them, provided they are returned to our factory, transportation charges prepaid, within 30 days, and provided they have not been altered or defaced in any way.

## 8. Tooling and Designing

(a) In consideration of the engineering service necessary in the designing of jigs, fixtures and tooling not being charged for, but being quoted on the basis of labor and material only, and not at their fair market value, such jigs, fixtures and tooling shall remain in our possession for at least one year. Thereafter, the customer desiring delivery of such jigs, fixtures and tooling shall pay an engineering charge of 50 percent of the original price of said jigs, fixtures and tooling and accept same as-is.

(b) When requested, we will submit suggestions concerning design and construction of parts, but we will not accept responsibility of liability for the practicability of these suggestions if adopted by the customer.





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# Terms and Conditions

## 9. Delivery and Adjustment to Price

(a) If the customer requests that the goods be manufactured and shipped on a date (or dates) earlier than originally agreed to by Rice Lake and the customer, and Rice Lake agrees to the earlier date (or dates), any increase in the cost of performance incurred by Rice Lake resulting from earlier manufacture and shipment will be included in an adjustment of the purchase price to be made by Rice Lake and will be paid by the customer.

(b) Should shipments be held beyond scheduled date for convenience of the customer, goods will be billed and charges will be made for warehousing, trucking and other expenses incident to such delay. Reasonable and sufficient care is taken by Rice Lake in crating its goods. Rice Lake cannot be held responsible for breakage after having received "in-good-order" receipts from the transportation carrier. All claim for loss and damage must be made by the customer to the carrier, but we will assist insofar as practical in securing satisfactory adjustment of such claims.

## 10. Payment and Liens

(a) All invoices shall be due and payable when submitted for payment in accordance with the revisions of Rice Lake terms. No withholding of funds, back charges or credits against amounts otherwise due to Rice Lake will be permitted unless specifically agreed to in writing by Rice Lake. Settlement of any amounts due to the customer will be negotiated as separate items and not as offsets against amounts otherwise due to Rice Lake from the customer for products sold hereunder.

(b) Any unpaid account for work done shall constitute a lien on any jigs, fixtures, manufactured parts and raw materials in Rice Lake possession. In the event any account remains open and unpaid for 90 days, Rice Lake reserves the right to use the customer's jigs and fixtures to make parts therefrom, and to sell or dispose of manufactured parts and raw materials.

(c) The customer shall not assign or transfer any rights or obligations arising from this proposal, or monies payable thereunder, without the prior written consent of Rice Lake, and any such assignment or transfer made without such written consent shall be deemed null and void.

## 11. Additional Provisions

(a) Errors—stenographic and clerical errors are subject to correction.

(b) These terms and conditions constitute the entire contract between the customer and Rice Lake, transcending any oral arrangements or representations which may be inconsistent therewith.

(c) This quotation is made under and shall be governed by the laws of the state of Wisconsin.

## 12. Resale of Rice Lake Weighing Systems Products

In order to ensure compliance with the U.S. Export Administration Regulations we ask you to comply with the following:

(a) The customer shall not export or re-export Rice Lake Weighing Systems products, either directly or indirectly, in contravention of any applicable law, statute or regulation and will first obtain any required licenses or authorizations from the relevant government authority when necessary as prescribed by law.

(b) The customer confirms that it is familiar with and complies with the relevant national and international export control regulations and embargo regulations. The customer furthermore confirms that it is in particular familiar with and complies with the U.S. Department of Commerce, Export Administration Regulations; U.S. Department of Treasury, OFAC Sanctions; the U.S. Department of Defense, ITAR requirements and the U.S. Department of State regulations.

(c) If deemed necessary, Rice Lake Weighing Systems, in individual cases may make further requests from the customer for information required for export compliance.

(d) Should it be necessary for the customer to obtain an export license from the appropriate authorities pursuant to the aforementioned regulations, the customer shall apply for such a license autonomously and at their own expense.

**The foregoing warranties are exclusive and in lieu of all other express and implied warranties whatsoever, including but not limited to implied warranties of merchantability and fitness for a particular purpose. Rice Lake shall not be subject to any other obligations or liabilities whatsoever with respect to parts manufactured or supplied by Rice Lake or services rendered by it.**

**Anything herein to the contrary notwithstanding, Rice Lake shall not be liable for incidental and consequential damages, and in substitution for all remedies which the customer may have under any applicable law. The customer's sole and exclusive remedy against Rice Lake for any breach of warranty or any other breach relating to goods delivered pursuant hereto shall be for repair or replacement (at Rice Lake's option) of the goods or parts effected by such breach.**

## Warranties

## Standard Product Limited Warranty

Rice Lake Weighing Systems (Rice Lake) warrants that all Rice Lake brand equipment and systems properly installed by an Authorized Reseller or original equipment manufacturer (OEM) will operate per written specifications as confirmed by the authorized reseller/OEM and accepted by Rice Lake. All systems and components are warranted against defects in materials and workmanship for one (1) year from the date of shipment from Rice Lake, unless otherwise stated in the product catalog or manual. Rice Lake warrants that the equipment sold here under will conform to the current written specifications authorized by Rice Lake. Rice Lake warrants the equipment against faulty workmanship and defective materials. If any equipment fails to conform to these warranties, **Rice Lake will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:**



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Upon discovery by the Customer of such nonconformity, Rice Lake will be given prompt written notice with a detailed explanation of the alleged deficiencies.

Individual electronic components returned to Rice Lake for warranty purposes must be packaged to prevent electrostatic discharge (ESD) damage in shipment. Packaging requirements are listed in the publication, "Protecting Your Components From Static Damage in Shipment," available from the Rice Lake Equipment Return Department.

Examination of such equipment by Rice Lake confirms that the non-conformity actually exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair, or improper testing. Rice Lake shall be the sole judge of all alleged non-conformities.

Such equipment has not been modified, altered, or changed by any person other than Rice Lake or its duly authorized repair agents.

Cutting the load cell cable will void the warranty.

Rice Lake will have a reasonable time to repair or replace the defective equipment. The Customer is responsible for shipping the product to Rice Lake. Rice Lake is responsible for shipping the product back to the Customer.

In no event will Rice Lake be responsible for travel time or on-location repairs, including assembly or disassembly of equipment. Nor will Rice Lake be liable for the cost of any repairs made by others.

On all intrinsically safe equipment, any field repair or modifications voids any and all warranties expressed or implied and void F.M. approval.

Any loose hardware, screws, washers or non-ESD bags of hardware stored inside indicator will void warranty. This could cause harm to repair technician or damage CPU board.

If just the board is sent in for repair, the serial number of the product the board is from should accompany the board.

**These warranties exclude all other warranties, expressed or implied, including without limitation warranties of merchantability or fitness for a particular purpose. Neither Rice Lake nor the authorized reseller will, in any event, be liable for incidental or consequential damages at the point of use. Rice Lake and the Customer agree that Rice Lake's sole and exclusive liability here under is limited to repair or replacement of such goods. In accepting this warranty, the Customer waives any and all other claims to warranty.**

**Should the seller be other than Rice Lake, the Customer agrees to look only to the seller for warranty claims.** No terms, conditions, understanding, or agreements purporting to modify the terms of this warranty shall have any legal effect unless made in writing and signed by a corporate officer of Rice Lake and the Customer.

## Carrier Product Damage

As part of our commitment to customer satisfaction and in accordance with ISO 9001 standards, we make every attempt to pack our products so they will arrive in new condition. Occasionally due to rough handling or carelessness of carrier, product may arrive in a damaged condition. When this happens, don't assume that the shipment left Rice Lake in that condition or that the original packing was not sufficient.

The receiver, whether it is the authorized reseller or their Customer, is responsible for making a notation of damaged or missing items when signing the carrier's delivery receipt. If you or your Customer are not sure whether there is damage, we suggest adding a statement "CONDITION UNKNOWN" to the delivery receipt. In the event that damage or missing items are not properly documented at time of receipt, the carrier is relieved of responsibility and the receiver is then responsible for the cost to get the product back to new condition.

After the damage or shortage has been properly noted with the carrier, contact Rice Lake immediately and keep all the original packaging material for inspection by the carrier's representative. It is also helpful in the claim process to take pictures of the condition of the packaging and damage.

When drop-shipping items to your Customers, it is imperative that you advise them of their responsibility in accepting shipments from common carriers. Even if the equipment is not expected to be installed or used for a period of time, the shipment must be inspected at time of receipt in order to preserve their rights for making a claim.

## Custom Software Limited Warranty

Rice Lake Weighing Systems (Rice Lake) warrants that (a) the software will perform in accordance with the specification and accompanying written endorsement by the Customer for a period of 90 days from the date of receipt; (b) any hardware accompanying the software will be free from defects in materials and workmanship under normal use and service for a period of one (1) year from the date of shipment from Rice Lake; and (c) the Customer should perform inspection and testing of software products prior to installation.

This limited warranty is void if failure of the software or hardware has resulted from accident, abuse, misapplication, or incorrect Customer specification. Any replacement software will be warranted for the remainder of the original warranty period or 30 days, whichever is longer.

If the software fails to conform to these warranties, Rice Lake will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:





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# Warranty and Limitation of Liability

Upon discovery by the Customer of such nonconformity, Rice Lake will be given prompt written notice with a detailed explanation of the alleged deficiencies.

Examination of software by Rice Lake confirms that the nonconformity exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair, improper testing, or incorrect Customer specification. Rice Lake shall be the sole judge of all alleged non-conformities.

Rice Lake will have a reasonable time to repair or replace the software. The Customer is responsible for shipping charges both ways.

In no event will Rice Lake be responsible for travel time or on-location repairs, including assembly or disassembly of equipment. Nor will Rice Lake be liable for the cost of any repairs made by others.

**These warranties exclude all other warranties, expressed or implied, including without limitation warranties of merchantability or fitness for a particular purpose. Neither Rice Lake nor the authorized reseller will, in any event, be liable for incidental or consequential damages at the point of use.**

**Rice Lake and Customer agree that Rice Lake' sole and exclusive liability here under is limited to repair or replacement of such goods. In accepting this warranty, the Customer waives any and all other claims to warranty.**

**Should the seller be other than Rice Lake, the Customer agrees to look only to the seller for warranty claims.**

No terms, conditions, understanding, or agreements purporting to modify the terms of this warranty shall have any legal effect unless made in writing and signed by a corporate officer of Rice Lake and the Customer.

## Return Policies

Our commitment to our Customers states that if any standard product purchased from Rice Lake does not work, or if the incorrect product is shipped, **return it in its original shipping carton with all accessories in "like new" condition** for full credit or replacement within 30 days of purchase. **Electronic components returned to Rice Lake must be properly packaged to prevent electrostatic discharge (ESD) damage in shipment.** Packaging requirements are listed in the publication, "Protecting Your Components from Static Damage in Shipment," available online or from our Returns Department. This policy and the 30-day limit also apply to any products drop-shipped directly from the manufacturer.

Please note that if an incorrect quantity of product was shipped, Rice Lake must be contacted within 10 days of the purchase. Upon notification, we will immediately correct the situation.

**A restocking charge will apply if equipment is not in like-new condition.** The restocking charge is directly proportional to the amount of time and material required to return the item to resalable condition—we will make every effort to do this quickly and economically. Equipment that has been abused and/or shows signs of excessive wear and cannot be reconditioned and resold will not be accepted for return or credit after excessive wear or has been modified.

**As Applied to Drop Shipments**

All Rice Lake return guidelines apply to products drop-shipped directly from the manufacturer. If a perceived error occurs, Rice Lake will investigate to the best of our ability to determine if the error occurred prior to shipping, during shipping, or at the end user site. If our records and subsequent investigation indicate that the shipment was correct when it left our factory, our responsibility extends only to the authorized reseller, not their end user. Our standard product warranty notes that our coverage extends only to equipment and systems **properly installed by an authorized reseller.**

## Obtaining an RMA

A return authorization number (RMA) is required for all materials being returned to Rice Lake for credit. Flat rate repairs require purchase orders at time of RMA issuance. When returning equipment for repair or warranty reimbursement consideration, these simple steps will help to expedite your request:

1. Contact our Returns Department.
2. Please have your customer number and both the item description and detailed findings of product problem for repair.
3. Please have the original sales order or invoice number for items to be returned for credit or warranty.
   NOTE: See return policy
4. An RMA number will be given for eligible returns. This RMA number may also be faxed or emailed per your request.

## Return Shipments Outside the United States for Repair, Warranty, Calibration or Other Services and Re-export.

**For shipment to the USA:**

1. The commercial invoice must include the following statement:
   i. "These goods are being returned for maintenance under"
   ii. Goods Made in the USA -- "HTS 9801.00.1012"
   iii. Goods NOT made in the USA -- "HTS 9801.00.2500"
2. The commercial invoice must list items individually and include the fair market value of the item based on its present condition for customs purposes only.
3. Please reference original Rice Lake commercial invoice number and date item was purchased if applicable.
4. Please note that failure to follow these procedures may cause delay and will certainly incur extra charges that will NOT be absorbed by Rice Lake.

## Return Shipments Outside the United States Other Than for Repair, or Service Work Not Being Returned.

**For shipment to the USA:**

1. The commercial invoice must include the following statement:
   i. Goods Made in the USA -- "HTS 9801.00.1045"
   ii. Goods NOT made in the USA -- "HTS 9801.00.2500"
2. The commercial invoice must list items individually and include the fair market value of the item based on its present condition for customs purposes only.
3. Please reference original Rice Lake commercial invoice number and date item was purchased if applicable.
4. Please note that failure to follow these procedures may cause delay and possible reduction in your refund.
5. Please be advised that you may qualify for a refund of your duties and should contact your local customs authority for instructions and forms.



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## Special Order, Modified, Non-Catalog, or Non-Stock Items

Due to the added resources and difficulty in reselling special or non-standard products, returns or credit are not allowed for special order equipment, special software programs, equipment physically modified or altered in the field, discrete electronic components, relays, manuals, or opened software packages.

## Calibration Test Weights

All weights returned for credit will be assessed a restocking charge because of the required inspection and verification. Credit is not allowed for serialized weights, calibration or traceable services performed on weights.

### Calibration Test Weights

No returns will be accepted for items that are specifically modified for the Customer's requirements. Examples of such modifications may include, but not necessarily limited to:

1. Weights that have been specifically built to the customer's specifications.
2. Standard product specifically modified to the customer's specifications.
3. Standard product engraved with serial numbers at the customer's request.
4. Laboratory procedure charges.
5. Laboratory documentation fees.

## Balances

Balances returned for credit within 30 days of purchase may be subject to a restocking fee if assessed by balance manufacturer.

### Balance Repair Policy and Rates

We offer repair support on the following balance models:

- All Rice Lake brand models: Once we receive the equipment and the RMA form, an estimate will be prepared.

A minimum charge of one hour will apply. All balance repairs are covered by a 90-day limited warranty on parts and workmanship performed and noted under the scope of the specific repair. Balances must be packaged to adequately protect them from damage in transit. Please refer to "How to Prepare a Balance for Shipment" available on our website and from our Returns Department.

### How to Prepare a Balance for Shipment

The best and most effective method for shipping a balance at any time and for any reason is to use the original manufacturer's packaging materials and subsequently double box it as described below. Teach your Customers to retain the packing set. Please remember that due to the nature of the equipment, new packaging materials can be very expensive.

In the event that the original manufacturer's packaging materials are not available, follow these instructions for top loading balances.

1. Remove the weighing platform cover, support buttons, weighing platform, floor plate and other devices installed in the weighing chamber. Pack these pieces individually in bubble wrap and tape the wrapping closed. Follow this same procedure for AC adapters and power cords. Please note that AC adapters and power cords are necessary to adequately evaluate the problem.
2. Examine the device (refer to the operating instructions) and if necessary, re-install or tighten any shipping screws/retaining devices to prevent damage to the weighing mechanism during shipment.
3. If the floor plate is not removable, ensure it is securely in place and cannot come loose during shipment, even if the balance is inverted. Do NOT invert the balance to test the security of the floor plate.
4. Clean the device of any loose debris or potential contaminants to our testing facility.
5. Prepare and sign a Statement of Decontamination (form #0679). This form MUST be included in a separate packing list envelope on the outside of the box with the "Statement of Decontamination Form" statement clearly visible.
6. Using Scotch tape or "speed" tape, tape all the glass doors on the device CLOSED. Be sure the tape is securely affixed and will not come off during shipment. Please note that on some devices, the glass breeze-break around the weighing chamber can actually be disassembled and packed separate prior to shipment. Refer to the manufacturer's operating instructions. If this is a feature of the device being return, disassemble the breeze break and pack it in its own packing material and box.
7. Use a large box that will provide a minimum of 3 inches of space around the device for loose-fill packing material.
8. Place a padding of foam or Styrofoam (at least 1inch thick) at the bottom of the box.
9. Place the balance in a large plastic bag and seal the bag closed.
10. Please put the device on top of the foam padding or Styrofoam from step 8 above.
11. Ensure that there is at least three inches of clearance between the top of the balance and the top of the box.
12. Using generous amounts of anti-static loose-fill packing material, fill all the spaces around the balance. Shake the box to cause the material to settle and add additional loose fill as necessary.
13. Place the small box containing all the items from step 1 above on top of the loose fill covering the balance. Add additional loose fill to completely cover all items within the box.
14. Double pack this box in another box that will again provide an additional two inches of space around the inner box. Fill all existing space between the inner and outer box with copious amounts of anti-static loose fill packing material.
15. Seal the box and include all the necessary documentation on the outside of the box. Don't forget the Decontamination Form (form #0679) from step 5 above.





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# Warranty and Limitation of Liability

## Repair Service Policies

Our Service Department is staffed Monday through Friday from 6:30 A.M. to 6:30 P.M., and Saturday from 8:00 A.M. to noon, Central time. For those utilizing the conveniences of the internet, we have an e-mail address dedicated to technical support. Please contact Rice Lake at service@ricelake.com for answers to your technical questions and the status of repair products during normal business hours.

We provide quality and timely repairs for the products we sell. Flat rate repair is offered for selected models of indicators, printers and remote displays. Prior to returning a product for repair, our returns department will work with you to determine some key factors that will help Rice Lake better serve you. Please provide the following via phone to extensions 5348 or an RMA form.

- Customer Number: Without a customer number we cannot issue an RMA number.
- Ship-to Address: Your customer number will bring up the bill-to address. You must inform Rice Lake of the ship-to address if it's different than the bill-to address.
- **Original sales and invoice orders: Required on warranty claims.**
- Freight Type: Unless stated otherwise, we ship the device back to you utilizing the same freight type in which we received it. If Rice Lake is responsible for freight charges, the carrier will be selected at the sole discretion of Rice Lake.
- **Definition of Product and Problem: Please provide as much detail as possible regarding the type of product, application and problem.**
- Purchase Order Number for Flat Rate Repair: Once we receive the equipment and the RMA, equipment for flat rate repair will be processed immediately. Other equipment will be evaluated and a minimum evaluation charge will apply (contact the factory for exact pricing).

You may be asked about the possibility of a new replacement product. It may be in your customer's best interest to explore the option of purchasing a new product if the repair will exceed 50 percent of authorized reseller net price, since new products carry full-warranty benefits.

Please note our hourly service rate on all current Rice Lake products. Contact the factory for exact pricing. There is a 120-day limited warranty on parts and workmanship performed and noted under the scope of the specific repair.

## California Proposition 65

### Rice Lake Weighing Systems Statement

Proposition 65 requires businesses to inform Californians about exposures to chemicals that are known to cause cancer, birth defects or other reproductive harm. These chemicals may be in the products you purchase, or they may be exposed to you at home, at the workplace or within the environment. Proposition 65 enables Californians to make informed decisions about their exposures to these chemicals.

Rice Lake Weighing Systems wants to be proactive in regards to Proposition 65 and provide information about the products we produce, distribute and use to manufacture equipment we sell.

We are providing this warning based on the knowledge that one or more chemicals included in the California Proposition 65 list known to cause cancer, birth defects or other reproductive harm may be present in Rice Lake Weighing Systems products and workplaces.



WARNING: Chemicals listed in California Proposition 65 known to cause cancer, birth defects or other reproductive harm may be present only in trace amounts or contained within Rice Lake Weighing Systems products and proper encapsulation equipment. This warning is provided out of an abundance of caution to enable you to be an informed consumer.

More information about California Proposition 65 can be found at www.P65Warnings.ca.gov



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# Automated Ticketing

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**ESPAÑOL** | Visite **ricelake.com/spanish** para ver todos los materiales Rice Lake que están disponibles en español.


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# 1280 Kiosk

Automated Truck Scale System




## Optional Features

- Additional A/D cards
- RFID reader
- Internal heater
- Gate control
- Loop detector input
- QWERTY keyboard
- 12-key keypad

## Standard Features

- 12-inch 1280 color touchscreen
- Stainless steel enclosure
- 1,500 NIT display
- Two serial ports RS-232 or RS-485
- Operator prompting
- Formattable tickets
- Transmits weight to remote display
- 120 or 220 VAC
- 460 MB onboard database
- Ethernet TCP/IP (wired and WiFi)
- Web server
- Direct thermal printer

## Part Numbers/Price

| Part# | Description | Price |
|---|---|---|
| **Consult** | 1280 Kiosk, Touchscreen, Direct Thermal Printer | Consult |



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# Weigh Out/Printer Kiosk

Automated Truck Scale System




*Shown with optional features*

## Standard Features

**Weigh Out/Printer Kiosk**

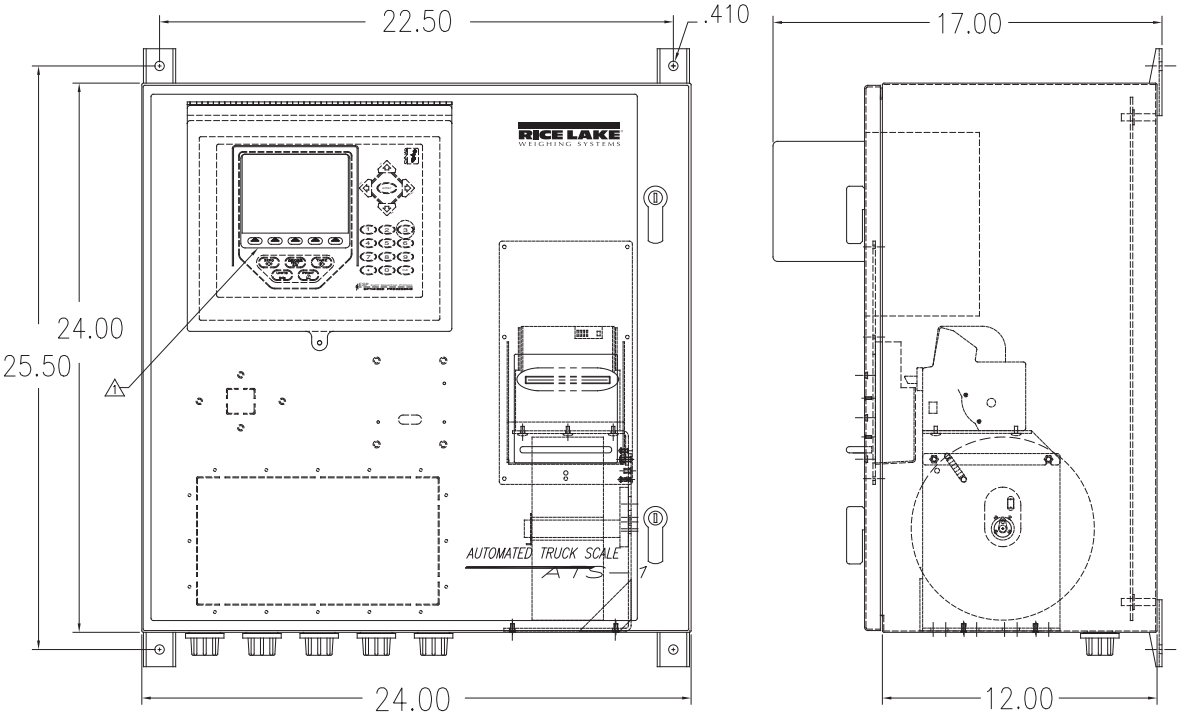
- 920i® HMI with sun shield
- Six serial ports
- 1 MB database memory
- Two additional expansion slots
- Slide door access to ticket
- 8 in paper roll
- Operator prompting
- Formatable tickets
- Transmits weight to remote display
- Stop/Go remote display traffic light control
- Direct thermal kiosk printer

**Weigh Out/Printer Kiosk Options:**

- Ethernet TCP/IP (wired and WiFi options available)
- Single or dual channel A/D cards
- RFID reader
- Currency accepter (U.S. currency only)
- Internal heater
- Gate control
- Loop detector output
- Automated traffic light control

**Consult for the following options:**

- Stainless steel enclosure
- Bar code badge scanner
- 230 VAC




*For reference only*



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## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| 119687 | Weigh out kiosk with 920i® HMI and thermal kiosk printer, 24 x 24 x 12 in painted mild steel enclosure, A/D not included | $5,435.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| 21159 | Internal transient protection | $245.00 |
| 23146 | Traffic light | $775.00 |
| 119691 | Vandal-proof 12-key keypad | $445.00 |
| 176452 | HID smart card reader | $550.00 |
| 119692 | 88 key, panel mount Qwerty style keyboard | $780.00 |
| 119693 | 200 watt heater | $550.00 |
| 119761 | Ethernet unmanaged switch, five port | $298.00 |
| 119689 | Kiosk option, A/D single-channel, includes DIN rail and terminals | $345.00 |
| 119690 | Kiosk option, A/D dual-channel, includes DIN rail and terminals | $510.00 |
| 119946 | Single port Ethernet server | $435.00 |
| 120040 | Dual port Ethernet server | $605.00 |
| 33490 | Relay rack four-channel Opto 22 style with screws | $80.00 |
| Consult | 22 mm Allen Bradley push buttons with legend plates | $150.00 |
| 75850 | SURVIVOR® LaserLight® Series remote display, 4 in | $1,500.00 |
| 75852 | SURVIVOR® LaserLight® Series remote display, 6 in | $1,950.00 |

## Replacement Parts

| Part # | Description | Price |
|---|---|---|
| 105445 | Paper 6 in OD, one ply thermal 80 mm (3.1 in) 710 ft/roll | $25.00 |
| 105446 | Paper 8 in OD, one ply thermal 80 mm (3.1 in) 1268 ft/roll | $27.00 |
| 54215 | 3.15 amp 250V Slo Blo 5 x 20 mm kiosk power input fuse | $4.00 |
| 88792 | Power supply, IDEC 12VDC | $130.00 |
| 160025 | Power supply, IDEC 12VDC - 15W | $175.00 |
| 88793 | Power supply, IDEC 24VDC - 30W | $215.00 |
| 72682 | Network protection, surge | $40.00 |
| 69201 | RS-232 protection, TP232 | $175.00 |
| 181230 | Serial kiosk printer kit (includes printer, bracket assembly, power supply and cables) | $1,555.00 |
| 191359 | Ethernet kiosk printer kit (includes printer, bracket assembly, power supply and cables) | $1,600.00 |





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# Weigh/Check In Kiosk

Automated Truck Scale System



*Shown with PN 176452*

## Standard Features

**Weigh/Check In Kiosk**

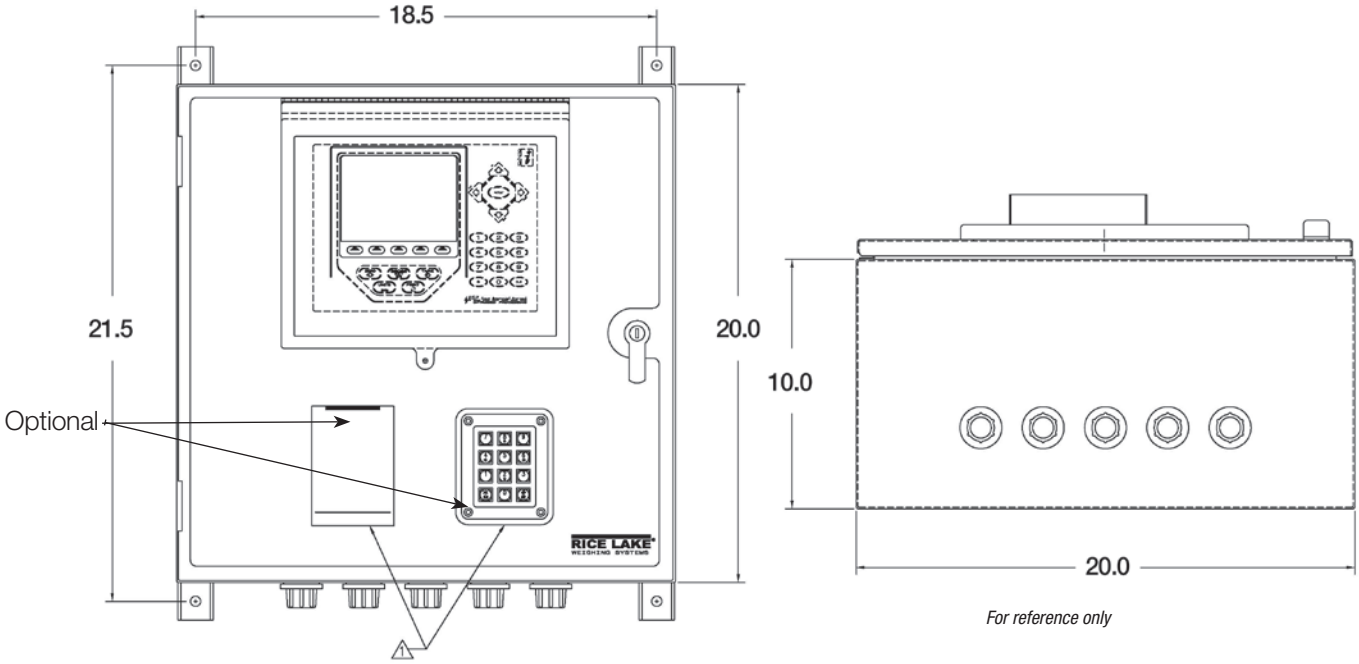
- 920i® HMI with sun shield
- Four serial ports
- 120 VAC
- Two option slots for 920i option cards

## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **153353** | Check-in kiosk with 920i HMI, 20 x 20 x 12 in painted mild steel enclosure | $3,275.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **119691** | Vandal-proof 12-key keypad | $445.00 |
| **176452** | HID smart card reader | $550.00 |
| **119692** | 88 key, panel mount Qwerty style keyboard | $780.00 |
| **119693** | 200 watt heater | $550.00 |
| **119761** | Ethernet unmanaged switch, five-port | $298.00 |
| **119689** | Kiosk option, A/D single-channel, includes DIN rail and terminals | $345.00 |
| **119690** | Kiosk option, A/D dual-channel, includes DIN rail and terminals | $510.00 |
| **119946** | Single port Ethernet server | $435.00 |
| **120040** | Dual port Ethernet server | $605.00 |




*For reference only*



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## Standard Features

**Direct Thermal Printer Kiosk**

- Custom America VKP80II
- Slide door access to ticket
- 8 in paper roll

## Specifications

**Line Voltages:**
115 or 230 VAC

**Frequency:**
50 or 60 Hz

**Power Consumption:**
0.5 amps (depending on options)

**Fusing:**
3.15 amps circuit breaker

**Humidity:**
0-95% relative humidity

**Rating/Material:**
NEMA Type 1
IP10

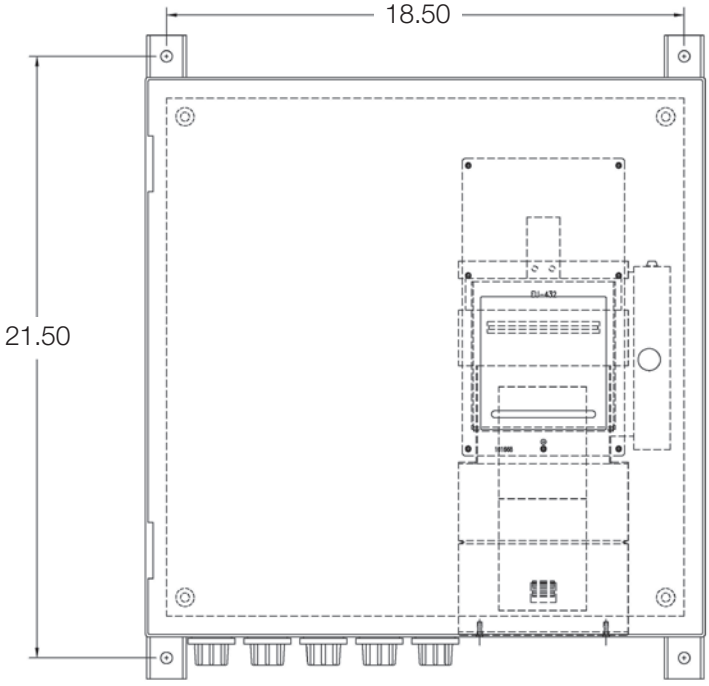
**Printer Communication Ports:**
RS-232 or Ethernet

**Storage Temperature:**
14° to 158° F (-10° to 70° C)

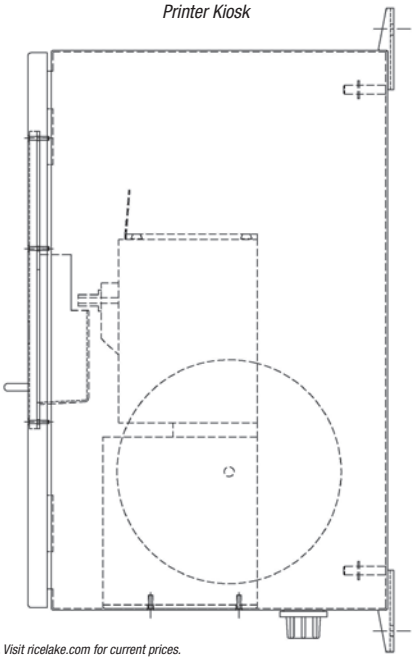
**Warranty:**
Two-year limited warranty




*PN 112836*




*Printer Kiosk*








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# Printer Kiosk

Thermal-transfer Printer Kiosk



*Basic printer kiosk with optional RFID card reader and optional number keypad*



*Basic printer kiosk PN 92971*



*Basic printer kiosk with optional RFID card reader*

## Standard Features

**Printer Kiosk with Ethernet Intercom**

- Digital Acoustics Ethernet TCP/IP intercom substation

**Thermal-transfer Printer Kiosk**

- Painted mild steel enclosure
- Slide door access to ticket
- Zinc-plated 3/4-inch NPT conduit hubs
- Additional options available upon request

*Note: Printer, thermal transfer ribbon and card stock sold seperately*

## Specifications

**Line Voltages:**
115 or 230 VAC

**Frequency:**
50 or 60 Hz

**Power Consumption:**
0.5 amps (depending on options)

**Fusing:**
6 amp circuit breaker

**Humidity:**
0-95% relative humidity

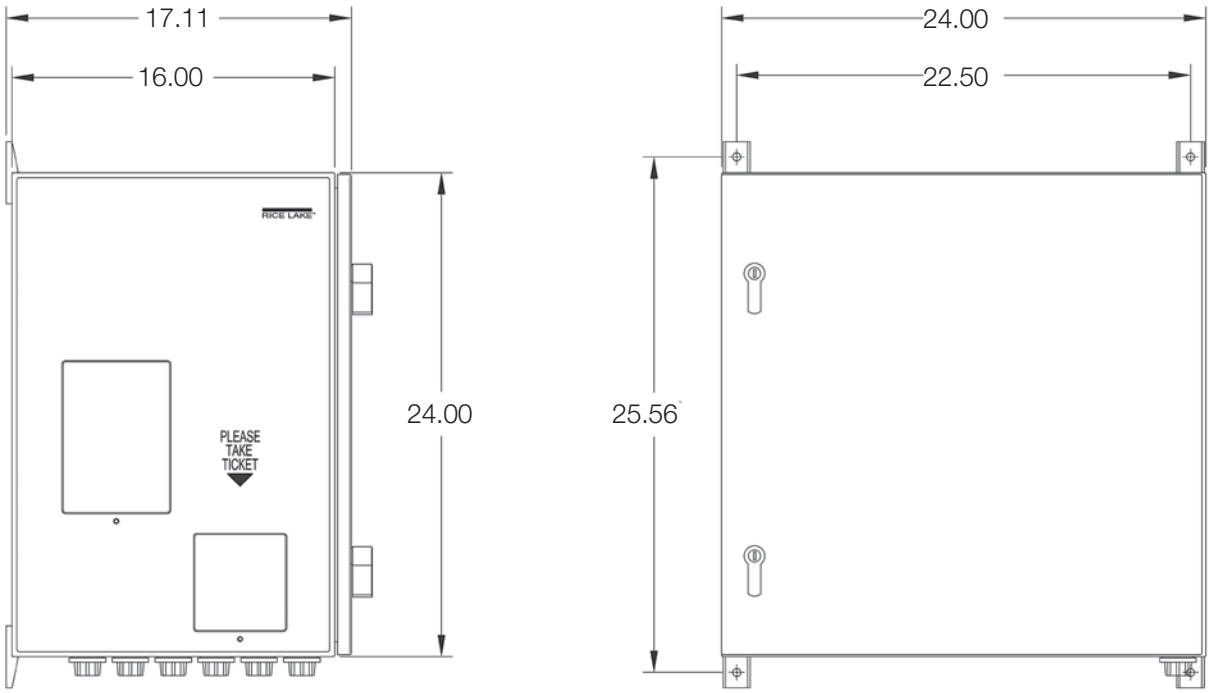
**Rating/Material:**
NEMA Type 1
IP10

**Printer Serial Ports:**
RS-232
Ethernet (optional)

**Storage Temperature:**
14°F to 158°F (-10°C to 70°C)

**Current Supported Riser Plates:**
Zebra® 140XiIIIPlus
Zebra 105SL
Zebra R110Xi
Zebra Z4Mplus
Zebra 2746e
Honeywell 4206
Honeywell I-4212
Intermec/Honeywell 3400e
Intermec/Honeywell 4440

**Warranty:**
Two-year limited warranty






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## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **92971** | Printer kiosk, inbound base unit 115 VAC (printer not included) | $2,775.00 |
| **112836** | Printer kiosk, thermal ticket printer 20 x 20 x 12 in painted mild steel enclosure | $3,600.00 |
| **193639** | Printer kiosk, thermal ticket printer (Ethernet), 20 x 20 x 12 in painted mild steel enclosure | $3,675.00 |

*A test plan is included with each kiosk.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **119693** | 200 watt heater | $550.00 |
| **119761** | Ethernet unmanaged switch, five-port | $298.00 |
| **119946** | Single port Ethernet server | $435.00 |
| **120040** | Dual port Ethernet server | $605.00 |
| **93463** | Printer riser plate for Honeywell I-4212e | $275.00 |
| **93468** | Printer riser plate for Intermec/Honeywell 3400e | $275.00 |
| **176452** | HID smart card reader | $550.00 |
| **131143** | Honeywell I-4212e, direct thermal RS-232, parallel and USB | $1,595.00 |
| **64884** | Thermal transfer option Honeywell | $100.00 |
| **131150** | Ethernet option Honeywell | $325.00 |
| **53918** | Cutter option Honeywell | $695.00 |
| **109298** | Tag, direct thermal, 4 in wide, 7.2 pt continuous 480 ft roll | $40.00 |
| **Consumables** | | |
| **105445** | Paper roll 6 in OD, one ply thermal 80 mm (3.1 in) 710 ft per roll | $25.00 |
| **105446** | Paper roll 8 in OD, one ply thermal 80 mm (3.1 in) 1268 ft per roll | $27.00 |
| **89190** | TT Tag stock 4 in wide, 7.5 pt continuous 400 ft roll | $38.50 |
| **34056** | Transfer ribbon, 4 in wide GPR Plus black 1181 ft roll | $25.25 |



www.ricelake.com | Phone: 800-472-6703

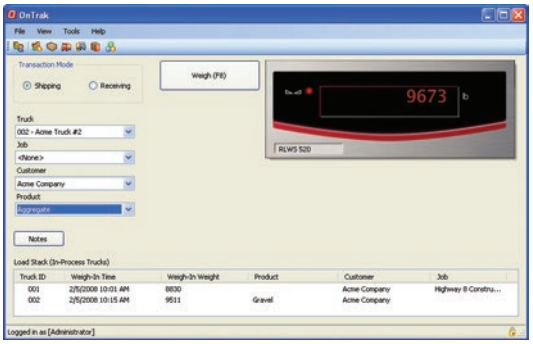


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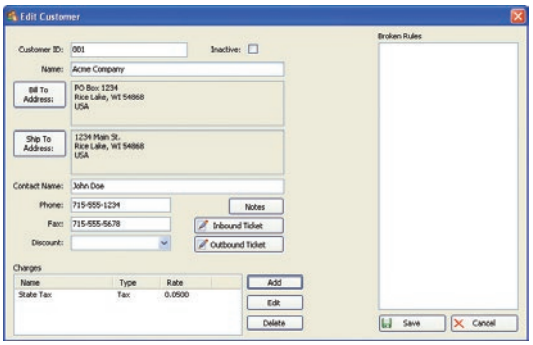
# OnTrak®

Truck Data Management Software

OnTrak®
TRUCK SCALE DATA MANAGEMENT




*Weigh Scale*




*Customer Account Information*

## Specifications

**System Requirements:**
Windows® 7 and newer (x86 or x64 systems)

**Databases:**
4 GB max database size when using included MS SQL Server Express, unlimited with standard version of MS SQL Server
Back up and restore via included SQL Server Management Studio Express

**Communications:**
Support for multiple printers
Supports all Rice Lake indicator interfaces
Supports VIRTUi/VIRTUi2 interface
Optional Drivers available for non-Rice Lake weight indicators

**Transaction Ticket:**
User defined ticket formatting

**Reports:**
Comprehensive report filters
Optional custom reports

**Export Data:**
File transfer via XML transaction; exported reports can be saved as PDF/XLS; configurable transaction data export in .csv file format

**Transaction Calculations:**
Unlimited product prices and discounts
Tax calculations (does not integrate directly to financial software)

**Software Support:**
Database configuration, field installation and training available
Phone support packages available
Contact Rice Lake for further options

**Approvals:**
NTEP CC 05-107

## Standard Features

- The OnTrak download has a very large file size (2.8 GB). Please make sure you have a high-bandwidth, reliable Internet connection before attempting to download. If you experience any difficulties do not hesitate to contact our technical sales department at 715-234-9171.
- Supports systems using Windows® 7 and up
- SQL Server® Express client/server database
- Comprehensive report filters
- User and administrator filters
- Backup and restore via included SQL Server Management Studio Express
- Unlimited charge/discount per product
- Ship or Receive mode for each transaction
- Exclusive database for: customer, hauler, truck, product, job, price/discount, tax, transaction
- Ethernet TCP/IP or RS-232 connectivity
- Supports VIRTUi/VIRTUi2® or Rice Lake weight indicators
- .CSV transaction file export
- Supports one or two scales

**APPROVALS**

## Optional Features

- Image capture with Ethernet camera TCP/IP (requires SQL server upgrade through Microsoft)
- Interface to non-Rice Lake weight indicators
- Custom reports
- Database configuration
- Field installation and training
- Factory phone support



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## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **104787** | OnTrak activation code | $1,395.00 |
| **101062** | OnTrak CD/ROM | $80.00 |

*OnTrak trial at www.ricelake.com/ontrak*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Non-Rice Lake indicator interface | $195.00 |
| **Consult** | Custom reports | $95.00/hour |
| **Consult** | Database configuration | $95.00/hour |
| **FLD-INSTALL** | Field installation | $1,395.00/ weekday plus expenses |
| **104789** | Phone support, one hour | $125.00 |
| **104790** | Phone support, 10 hours | $1,250.00 |
| **104791** | Phone support, 25 hours | $3,125.00 |
| **104792** | Phone support, 50 hours | $6,250.00 |
| **101003** | Additional OnTrak manual | $55.00 |





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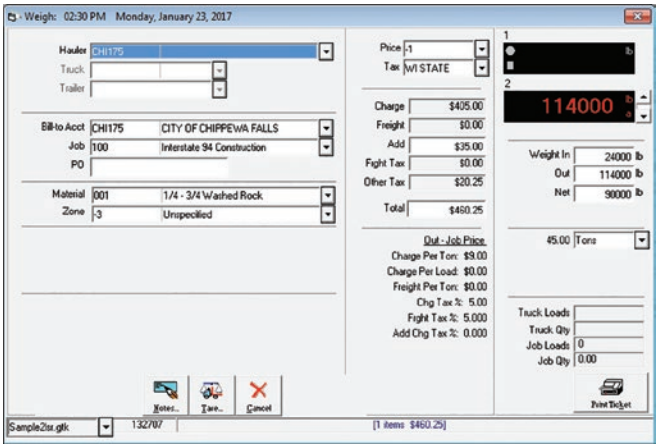
# TransAct® LE/TransAct/TransAct Plus

Truck Data Management Software

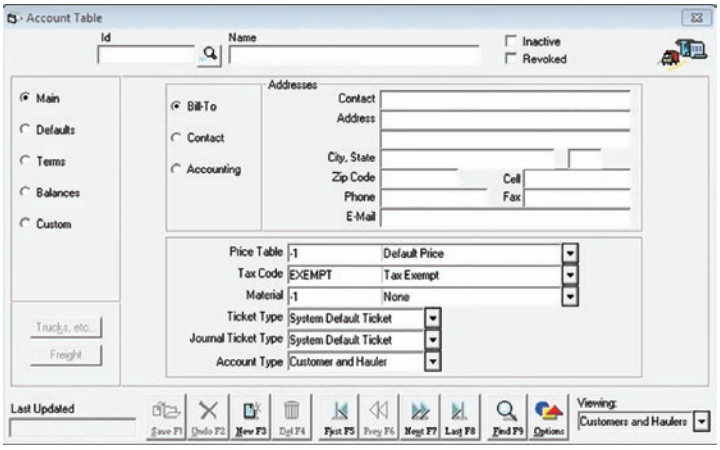
TRANSACT®

TRUCK DATA MANAGEMENT SOFTWARE

## APPROVALS




*Truck/Container Cash Transaction*




*Customer Account Table*

| Standard Features | TransAct LE | TransAct | TransAct Plus |
|---|---|---|---|
| Intuitive menu-driven programs | X | X | X |
| Ticket editing, voiding and reprinting with the Quickscan utility | X | X | X |
| Report to screen, printer or export | X | X | X |
| Password protection | X | X | X |
| Easy-to-use graphic interface | X | X | X |
| Full mouse and keyboard support | X | X | X |
| Fault-tolerant data recovery to protect from system crashes | X | X | X |
| Bar code, magstripe and RFID interface | X | X | X |
| Full database backup and purge functions | X | X | X |
| Truck overweight warning | X | X | X |
| Predetermined keyboard and automatic tare entry | X | X | X |
| Interfaces to ticket, tape, dot-matrix and laser printers | X | X | X |
| Unlimited configurable ticket formats | X | X | X |
| Networkable | | X | X |
| Three-configurable tares | | X | X |
| Four-configurable categories | | X | X |
| Configurable product rates | | X | X |
| Multiple scale operation | | X | X |
| Multiple transactions per ticket | | X | X |
| Job table for contract purchases | | X | X |
| Accounts payable and receivable | | | X |
| Aging report showing current and extended balance 30, 60 and 90 days | | | X |
| Expandable reporting features | | | X |
| Credit weight limits | | | X |
| Prints customer invoices and statements with detailed transaction information | | | X |
| Full reporting by account, revenue, tonnage, material and transaction | | | X |
| Invoice processing is separate from statement processing | | | X |
| Two invoice options available (open item, balance forward) | | | X |
| Invoice and statement printing options (print summary report, print detailed report) | | | X |
| Reprint invoices, statements, summary reports or detailed reports by isolating ranges of invoice numbers or dates | | | X |



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## Specifications

**System Requirements:**
Windows 10® or operating system currently supported by Microsoft

**Hardware:**
Intel® AMD® Processor, 1 GHz or greater
1 GB of RAM or greater
1 GB available storage space (data dependent)

**Databases:**
Virtually unlimited with user-definable categories
Full database backup including configuration files

**Communications:**
Support for two printers with selectable drivers for most popular printers

**Transaction Ticket:**
Configurable weigh-in and weigh-out ticket formats, complete selection of variables and data types

**Reports:**
Full reporting capabilities by account, job, material, hauler, ticket, truck, container, trailer or date
Age reports 30, 60, 90 days

**Export Data:**
Reports can be saved in various formats such as XLS, PDF, Word or HTML
Export/Import function for transferring transaction data in non-networking applications

**Transaction Calculations:**
Definable product rates, charges, taxes and customer discounts
Configurable percentage weight reductions for moisture and dockage

**Accounting (TransAct Plus Version):**
Full accounting capabilities
Accounts payable
Accounts receivable
Balance/reconciliation

**Software Support:**
Rice Lake Weighing Systems offers field software support for TransAct LE/TransAct/TransAct Plus
Contact our service department for software support
Software support is a chargeable service

**Approvals:**
NTEP CC 97-034

TRANSACT®
TRUCK DATA MANAGEMENT SOFTWARE

## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **79079** | TransAct LE version 6.5.01 | $1,385.00 |
| **43898** | TransAct version 6.5.01 | $2,345.00 |
| **98089** | Additional seat TransAct 6.5.01 (must be purchased with original 6.5.01) | $965.00 |
| **43899** | TransAct Plus version 6.5.01 | $4,645.00 |
| **98090** | Additional seat TransAct Plus 6.5.01 (must be purchased with original 6.5.01) | $1,785.00 |

*Note: TransAct demos can be downloaded from our website at www.ricelake.com*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **15547** | Blunt end, 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **Interfaces to: 480, 680, 720, 820, 880, 920i and 1280** | | |
| **Consult** | Upgrade from TransAct LE to TransAct 6.5.01 | Consult |
| **Consult** | Upgrade from TransAct LE to TransAct Plus 6.5.01 | Consult |
| **Consult** | Upgrade from TransAct to TransAct Plus 6.5.01 | Consult |
| **Consult** | Quickbooks® interface for TransAct 6.5.01 | Consult |
| **Consult** | Quickbooks® interface for TransAct Plus 6.5.01 | Consult |
| **Consult** | 3rd party accounting software interface for TransAct 6.5.01 | Consult |
| **Consult** | 3rd party accounting software interface for TransAct Plus 6.5.01 | Consult |
| **98103** | Two hours configuration installation and training service | $385.00 |
| **98104** | Four hours configuration installation and training service | $765.00 |
| **98105** | Eight hours configuration installation and training service | $1,650.00 |





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# Kiosk Safety Swing-away Arm

Self Centering Kiosk Mount

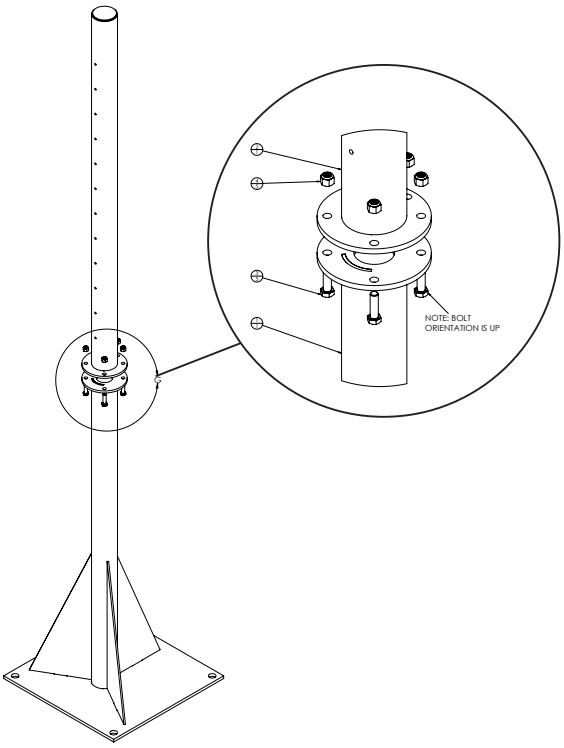


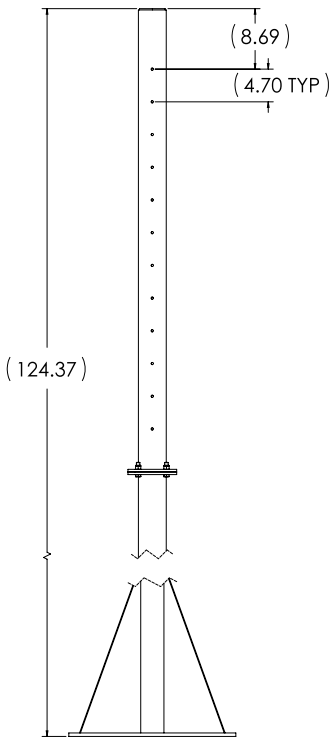
## Standard Features

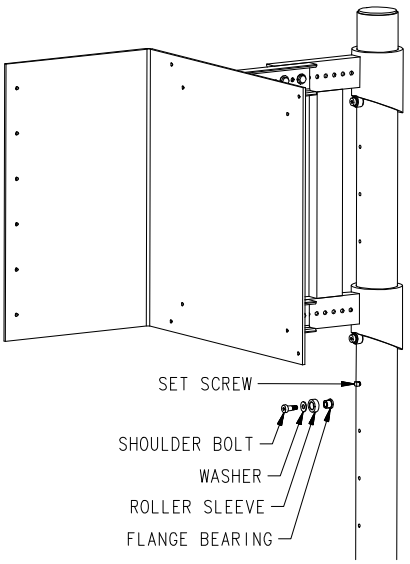
- Protects all kiosks from truck mirrors, fenders and cabs
- Swings away freely and returns to center position
- Universal mount accommodates a wide variety of kiosks
- Includes mounting pole and base stand
- Adjustable vertical and horizontal mounting

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **109164** | Complete kit for pit type scale (10 ft pole, red paint) | $1,330.00 |
| **109163** | Complete kit for aboveground scale (12 ft pole, red paint) | $1,360.00 |
| **105939** | Weldment, swing arm, kiosk (red) | $715.00 |
| **105941** | Pole weldment, 10 ft supported/free standing, 4.5 in o.d. (red paint) | $575.00 |
| **105940** | Pole weldment, 12 ft supported/free standing, 4.5 in o.d. (red paint) | $640.00 |
| **110606** | Weldment, swing arm 24 x 24 x 16 in side discharge printer kiosk (red paint) | $695.00 |
| **155435** | Weldment, swing arm 30 x 24 x 16 in side discharge printer kiosk (red paint) | $945.00 |
| **178074** | Complete kit for pit type scale (10 ft pole, yellow paint) | $1,330.00 |
| **178073** | Complete kit for aboveground scale(12 ft pole, yellow paint) | $1,360.00 |
| **178077** | Pole weldment, 10 ft supported free standing 4.5 in outer dimension (yellow) | $575.00 |
| **178076** | Pole weldment, 12 ft supported free standing 4.5 in outer dimension (yellow) | $640.00 |
| **178075** | Weldment, swing arm kiosk (yellow) | $715.00 |
| **160403** | Mount, swing arm pole for SURVIVOR ATV truck scale | $995.00 |



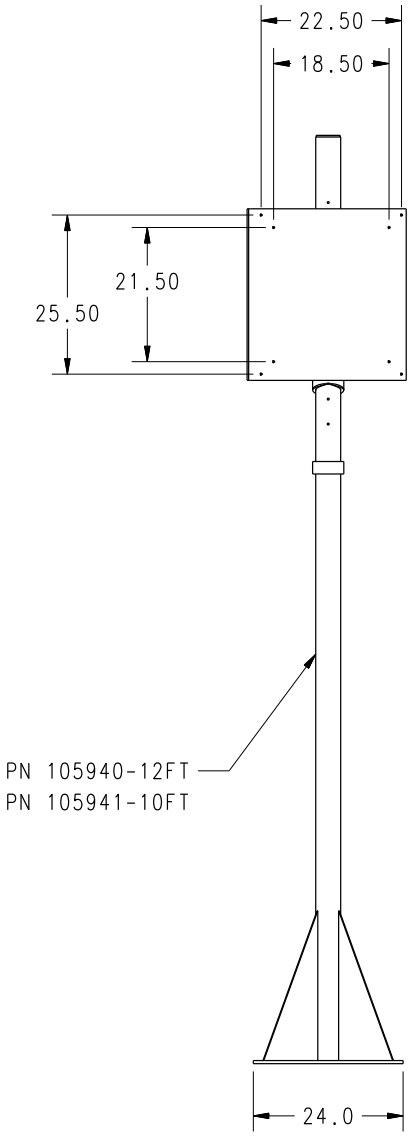





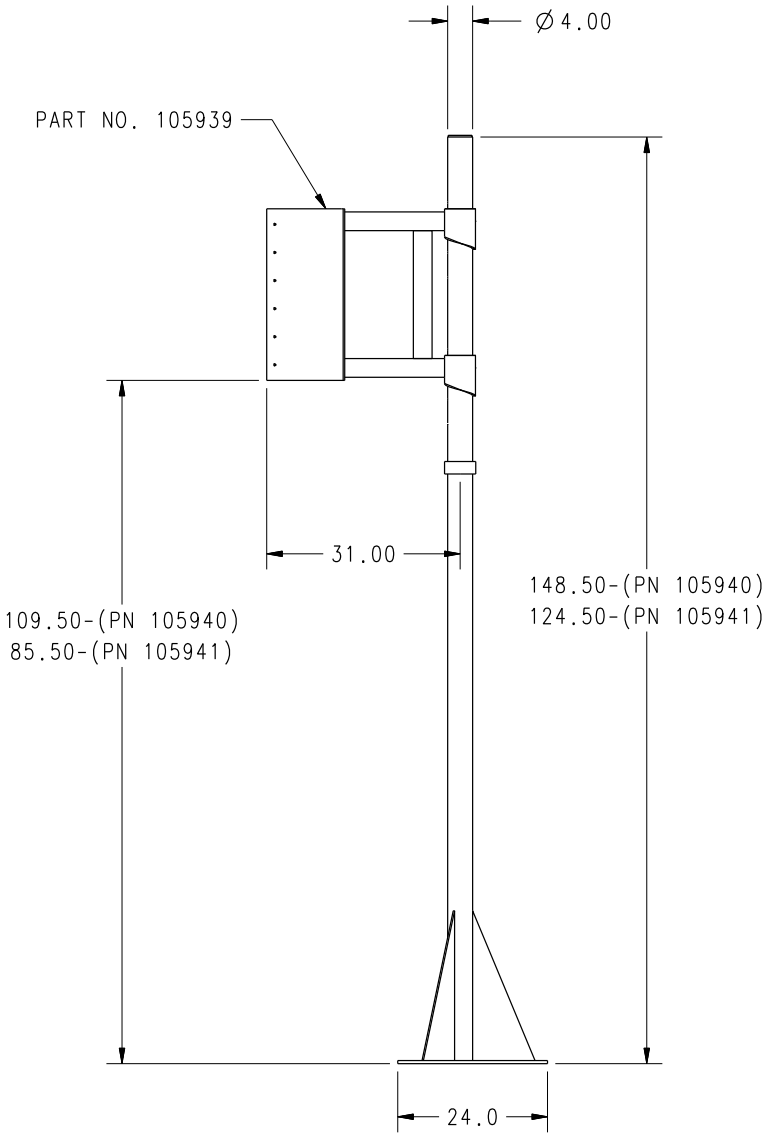

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# Kiosk Safety Swing-away Arm

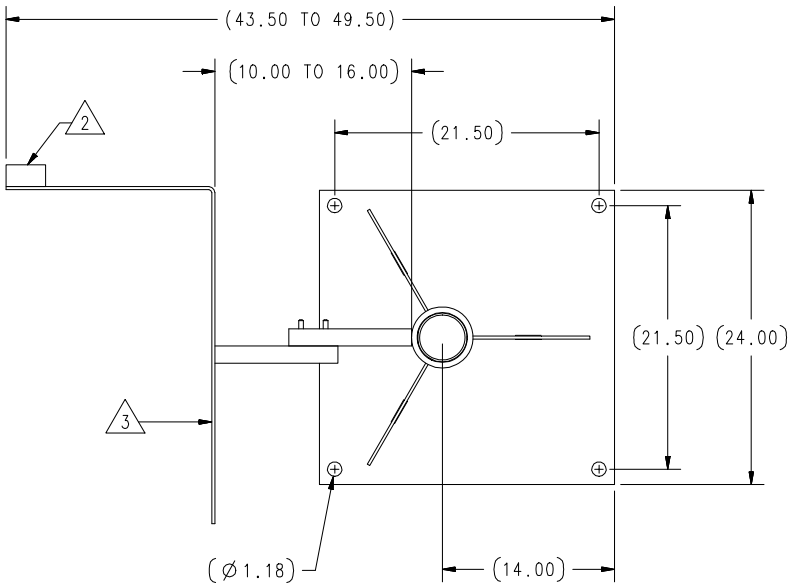
Self Centering Kiosk Mount

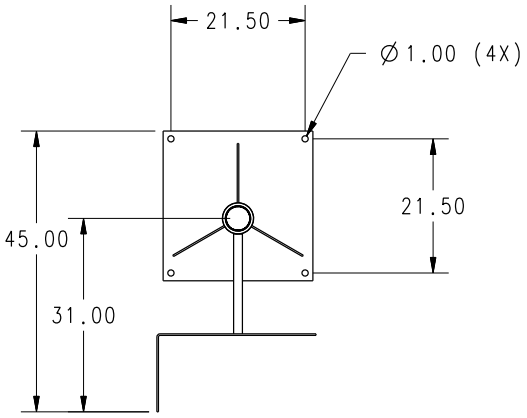



FRONT




SIDE




TOP





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# Vehicle Loop Detector




## Standard Features

**Vehicle Loop Detector**

- Loop diagnostics
- Loop isolation transformer
- Loop conditioner
- Aluminum RF shield housing
- Surge protection
- Loop frequency counter
- 10 gold-plated sensitivity controls
- Eight gold-plated function controls
- Six gold-plated controls for frequency, reset and frequency counter
- Two high-intensity LED indicators
- Two relays—relay 2 is pulse or presence

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **Consult** | Relay box | Consult |
| **171093** | Enclosure, loop detector, loop not included must order separately | $1,225.00 |
| **78986** | 4 x 8 ft loop, 50 ft lead wire | $260.00 |
| **86758** | 4 x 10 ft loop, 50 ft lead wire | $260.00 |

# EMX Lite Preformed Loops®



## Standard Features

**EMX Lite Preformed Loops**

- Rugged and flexible TPE tubing
- Electronic lightning protection of vehicle detectors
- Comes standard with 50 ft of twisted and jacketed lead-in wire
- Vehicle detection loop is constructed of stranded wire conductors with thermoplastic elastomer insulation jacketing
- Outer shell is flexible nonmetallic 0.26 in tubing
- Two relays—relay 2 is pulse or presence
- Loop installation requires backer rod and epoxy sealant provided by others

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **86601** | 4 x 8 ft-3 ft range (includes 78985 - loop and 15968 - socket) | $615.00 |
| **86759** | 4 x 10 ft-4 ft range (includes 78985 - loop and 15968 - socket) | $615.00 |

## Specifications

**Vehicle Loop Detector Power:**
The detector is available in the following voltages: 12 VAC/DC, 24VAC, 24VDC, 110 VAC, 220 VAC. Maximum current draw 100mA

**Low Power:**
Detector is available with maximum current draw of 60mA

**Temperature:**
-40° to 180°F (-40° to 82° C)

**Enclosure:**
Extruded anodized aluminum,
(H x W x D) 3.25 x 2.56 x 3.65in (83 x 40 x 90mm)

**Output Relays:**
5A/125 VAC standard version, 1A/125 VAC low current version

**Connector:**
86CP11 compatible with 11-Pin Octal DIN-rail mountable socket or wire harness

**EMX Lite Preformed loops Operating Temperature:**
-60°F to 260°F (-51°C to 126°C)

**Overall Diameter of Loop Wire:**
0.26in

**Loop Dimensions:**
4 x 6ft thru 4 x 12ft standard, custom sizes available

**Lead-in-Wire:**
50ft long, twisted wire in PVC jacket

**Loop Wire Approvals:**
UL subject 13, Type PLTC 300V, 90C passes IEEE-328,210,000, BTU Flame Test
Pennsylvania, Bureau of Deep Mine Safety, Approval P-MWMS-1-85



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## Specifications

**Frequency Range:**
902 to 928MHz

**RF Control:**
By sense output or host command

**Polarization:**
Linear, horizontal

**Read Range:**
Read performance varies depending on tag and reader configuration and environment
Read range for all the SmartPass E4 Reader is 12 ft (3.7m) typical to 17 ft (3.7m) maximum

**I/O Control:**
Input: Two independent dry contact closures for sense circuits
Output: Two independent Form-C contacts

**Dimensions:**
(L x D x W) 15.5 x 15.5 x 3.25 in
(39.4 x 39.4 x 8.25 cm)

**Weight:**
9.5 lb (4.3 kg)

**Mounting Surface:**
Mount to pole or wall, indoor or outdoor

**Enclosure:**
Tamper-proof, polycarbonate housing

**Operating Temperature:**
-40°F to 131°F (-40°C to 55°C)

**Humidity:**
100% condensing

**Vibration:**
0.5 grams, 10 to 500Hz

**Input Power:**
16-20 VAC, 47-63Hz, or 16-28V DC




## Standard Features

**TransCore® SmartPass® RFID Reader**

- Fully self-contained, integrated reader
- Ideal for truck scales, and parking and access control applications
- 915MHz RF band operation
- Compatibility with a wide range of industry-standard formats
- Weatherproof enclosure
- Quick, simple installation by trained, authorized personnel
- Programmable RF power
- Compatible with a variety of RFID tag options including half and full frame RFID tags (beam or battery powered) as well as windshield RFID tag options (beam or battery powered)

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **108201** | SmartPass E4 reader only | $6,395.00 |
| **162431** | 18 VAC power supply | $45.00 |
| **86401** | 5 ft interface cable | $155.00 |
| **162430** | 20 ft interface cable | $310.00 |
| **86403** | 35 ft interface cable | $465.00 |
| **162432** | Pole/wall mount bracket | $135.00 |





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# Multiprotocal Rail Reader and Parapanel Antenna




## Multiprotocal Rail Reader Standard Features

- Designed for railroad applications
- Fixed mount, integrated package (reader and RF module)
- Reads Association of American Railroads (AAR) format tags and Suer eGo® (SeGO) protocol tags
- Supports tag and mutual authentication
- 902-928 MHz RF range operation in North America
- Real-time clock
- Tag read buffering
- Programmable RF output power
- Programmable frequency
- Supports up to two AT5720 Check Tags
- Multiplexes up to four antennas

## Parapanel Antenna Standard Features

- Asymmetrical broadcast pattern
- Low-profile design
- Weatherproof enclosure
- UV-tolerant and corrosion-resistant construction

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **Consult** | Please consult sales engineer to ensure proper system for application | Consult |



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## Specifications

**Frequency Range:**
AT5402: 902 to 928 MHz
AT5406: 902 to 928 MHz/2425 to 2475 MHz

**Typical working range with TransCore®**
Encompass 4:
AT5402: 5 to 10 ft (1.5 to 3 m)
AT5406: 5 to 35 ft (1.5 to 11 m)

**Polarization:**
Parallel with longer side

**Data Capacity:**
Up to 10 alphanumeric characters (60 available bits) or Wiegand 26- to 54-bit formats

**Power Source:**
AT5402: Beam-powered
AT5406: Lithium battery

**Dimensions:**
AT5402: (L x D x W) 3.6 x 2.3 x .27 in (9.2 x 5.9 x .69 cm)
AT5406: (L x D x W) 4.5 x 2.5 x .7 in (11.4 x 6.4 x 1.8 cm)

**Weight:**
AT5402: 1.4 oz. (40g)
AT5406: 3.5 oz. (99g)

**Service Life:**
AT5402: >10 years
AT5406: Eight-year lithium battery (typical life)

**Case Material:**
Weatherproof, polycarbonate alloy, UV stabilized

**Mounting Surface:**
Interior: Non-metallic windshield

**Mounting Method:**
Semi-permanent mounting: Double-sided tape
Removable mounting: Adhesive-backed hook-and-loop material attached to the tag and vehicle windshield.

**Operating Temperature:**
-40°F to 185°F (-40°C to 85°C)




*157184*




*157185*

## Standard Features

**RFID Access Tags**

- Interior mounting on non-metallized windshield
- Impact resistant, molded plastic case
- Slim profile
- Non-battery for extended service life (AT5402)
- Dual-frequency (915 and 2450 MHz, AT5406)

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **157184** | AT5402 windshield tag beam power | $40.00 |
| **157185** | AT5406 windshield tag with battery | $55.00 |
| **159518** | Programming fee | $295.00 |

*Note: Programming fee applies if ordering fewer than 100 tags*





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# RFID Transportation Tags



## Standard Features

**RFID Transportation Tags**

- Harsh environment durability
- Factory sealed case
- Non-battery for extended service life (AT5412)
- Dual-frequency (915 and 2450 MHz, AT5414)

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **86399** | AT5412 transportation tag 1/2 frame beam power | $60.00 |
| **157188** | AT5414 transportation tag 1/2 frame with battery | $75.00 |

*Note: Programming fee applies if ordering less than 100 tags*

## Specifications

**Frequency Range:**
AT5412: 902 to 928 MHz
AT5414: 902 to 928 MHz/2425 to 2475 MHz

**Typical Working Range with TransCore®**
Encompass 4:
AT5412: 5 to 10 ft (1.5 to 3 m)
AT5414: 5 to 35 ft (1.5 to 11 m)

**Polarization:**
Parallel with longer side

**Data Memory Capacity:**
SeGo and eGo Modes: 2048 bits
ATA Mode: 60 bits

**Power Source:**
AT5412: Beam
AT5414: Lithium battery for a typical eight-year life

**Dimensions:**
AT5412: 9.3 x 2.38 x 0.69 in (23.6 x 6.0 x 1.75 cm)
AT5414: 9.32 x 2.39 x 0.75 in (23.67 x 6.07 x 1.91 cm)

**Weight:**
AT5412: 5.3 oz (150.2 g)
AT5414: 6.6 oz (187 g)

**Case Material:**
Weatherproof, polycarbonate, UV-stabilized case that is sealed after programming

**Mounting Surface:**
Any smooth metallic surface

**Mounting Method:**
Mount to any flat smooth metal surface using bolts, screws or blind rivets

**Operating Temperature:**
-40°F to 185°F (-40°C to 85°C)

# HID RFID Cards, Keys and Tags




## Standard Features

**HID RFID Cards, Keys, and Tags**

- Offer sufficient read/write memory to store multiple biometric templates
- Available in a 2 or 16 application area configuration
- Offer multiple, securely separated areas to enable numerous applications, including the HID standard access control application
- Future growth for new read/write applications
- ISO 15693 and 14443B2 standards for read/write contactless communication
- Cost-effective way to enhance the security of your access control installation
- Close range



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## Specifications

**Dimensions:**
9.1 in x 9.1 in x 2.75 in
(23.1 cm x 23.1 cm x 7.0 cm)

**Color:**
Black

**Housing Material:**
UL94 Polycarbonate

**Mounting:**
Drill mounting box to meet application
Drill points provided for US and EU wall boxes, and 75 mm, 100 mm and 200 mm VESA mounts

**Storage Temperature:**
-67° F to 185° F (-55° C to 85° C)

**Operating Temperature:**
-30° F to 150° F (-35° C to 65° C)

**Operating Humidity:**
5% to 95% relative humidity non-condensing

**Rating:**
IP65

**Typical Maximum Read Range:**
9.8 - 16.4 feet
(3 -5 meters) (Mexico)

**Transmit Frequency:**
865-868 MHz/902-928 MHz
dependent on regional regulations

**Approvals:**
UL 294/cUL, CB Scheme, FCC Certification, IC (Canada),
CE (Europe), IFETEL (Mexico)



## Standard Features

- Discreet hands-free authentication solution for long range parking and gate control
- Discreet hands-free authentication solution for long range truck identification
- IP65 rating allows outdoor mounting
- Supports Wiegand standards
- Requires Wiegand converter, consult with a sales engineer with application specifics

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **184458** | Reader, Long Range HID | $1,595.00 |
| **184459** | UHF Credentials (Factory programming required) | $14.00 |
| **184466** | Windshield Mount | $10.00 |





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# HID RFID Readers



## Standard Features

**HID RFID Readers**

- More powerful and versatile access control
- User-friendly proximity technology
- Uses the 13.56 MHz technology platform
- High-intensity, three-color light bar provides clear, visual feedback, even in direct sunlight
- Selectable, distinct tone sequences indicate status conditions
- All RF data transmission between the card and reader is encrypted using a secure algorithm
- Close range

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **176452** | HID smart card reader | $550.00 |
| **88792** | Power supply, IDEC 12VDC output, 85 VAC input, required for 176452 above | $130.00 |
| **85902** | iClass Smart Card Pack 1-25 13.56 MHz | $145.00 |
| **85903** | iClass Smart Card Pack 26-50 13.56 MHz | $145.00 |
| **85904** | iClass Smart Card Pack 51-75 13.56 MHz | $145.00 |
| **85905** | iClass Smart Card Pack 76-100 13.56 MHz | $145.00 |

*Keyfob and disc tags optional—consult for price.*

## Specifications

**Typical Maximum Read Range*:**
2.5-4.5in (6.3-11.4cm) with HID iCLASS® card
1.0in (2.5cm) with HID iCLASS key
1.0in (2.5cm) with HID iCLASS tag
1.5-2.0in (3.8-5.0cm) with HID iCLASS prox
1-2in (2.5-5.0cm) with MIFARE® card (serial number only)
*Using ISO 15693 mode (except MIFARE®). Dependent upon installation conditions. Please note that all iCLASS credentials are available in either a 2K bits (256 Bytes) or 16Kbits (2 KBytes) configuration.

**Dimensions:**
(W x L x D) 3.30 x 4.80 x .85in
(8.38 x 12.19 x 2.16cm)

**Material:**
UL94 polycarbonate

**Power Supply:**
10-16VDC reverse voltage protected
Linear supply recommended

**Current Requirements (Avg/Peak):**
80/260mA at 12VDC

**Operating Temperature:**
-31°F to 150°F (-35°C to 65°C)

**Operating Humidity:**
5-95% relative humidity non-condensing

**Weight:**
8.8oz (249.5g)

**Transmit Frequency:**
13.56MHz

**Cable Distance:**
Wiegand interface-500 feet (150m)
Recommended cable is ALPHA 1295 (22AWG) Five-conductor stranded with overall shield or equivalent. Additional conductors may be required to connect all outputs.

**Pending Certifications:**
Taiwan, Singapore, Germany VdS

**Approvals:**
UL 294/cUL, FCC Certification, Canada Certification, CE Mark (Europe), New Zealand, Australia c-Tick



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*Retro-reflective*

## Standard Features

- Many varieties available for both truck scale and dynamic weighing applications
- Arrange photo eyes to keep wheels on scale
- Rugged outdoor applications
- Reflective types work up to 17 ft (2,13 m) in clean conditions
- Quick disconnects for easy replacement
- Broken beams can signal a wheel off the scale or prevent a weighment in unattended systems
- Transmitter/receiver types work up to 17 ft in clean conditions

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Photo Eyes** | | |
| **78975** | Allen-Bradley® photo eye retro-reflective sensor | $275.00 |
| **78976** | Photo eye reflector, 3 in diameter | $27.00 |
| **78977** | Quick disconnect photo eye cable, 12 ft, 5-Pin mini connector | $115.00 |
| **Photo Switches** | | |
| **165776** | Kit, photo eye switch | $1,205.00 |
| **103013** | Photo switch receiver | $250.00 |
| **103014** | Photo switch transmitter | $198.00 |
| **196361** | Photo switch transmitter (DC) | $255.00 |
| **103015** | Photo switch quick connector receiver | $115.00 |
| **103016** | Photo switch quick connector transmitter | $80.00 |
| **130398** | Mounting swivel assembly for 103103 and 103014 | $25.00 |
| **156532** | Photo eye stand kit | $325.00 |

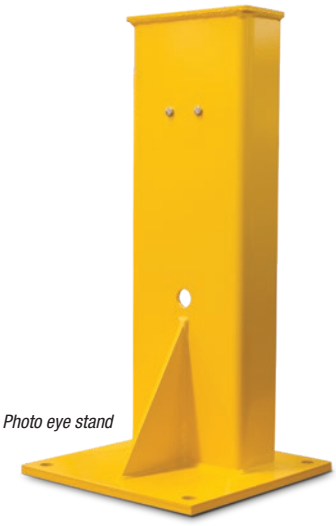
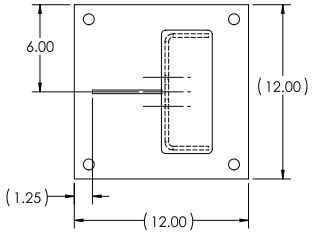
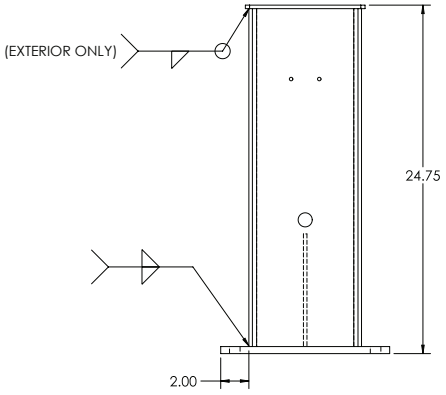


*Photo eye stand*




*PN 156532 photo eye stand kit dimensions*








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# Traffic Light Kits



*Traffic Light*

## Standard Features

**Light**

- Housing meets or exceeds ITE specifications
- Stainless steel hardware
- 8 inch LED lights, enclosure injection molded polycarbonate
- LED modules
- Compliant to ITE UTCSH - LED circular signal
- Temperature compensated power supplies for long LED life
- Conformal coated power supplies
- Intertek/ETL certified and listed on ETL certification program
- 135 VAC

## Standard Features

**Pole**

- 4.5 in outer dimension aluminum pole
- Cast aluminum base mounts to concrete with four anchor bolts
- Base underside has integrated anchor bolt guide to ensure proper anchor placement.
- Removable 8 in access door for cable splicing and bolt attachments (H x W) 15 in x 13 3/4 in

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **23146** | 2 Section, With Mounting Hardware for 4.5 Inch Pole 120VAC LED | 25 lb | $775.00 |
| **85789** | Kit, Traffic Light Pole. Includes 8ft Aluminum Pole, Base & four 18 Inch Anchors. Bolts with Nuts And Washers. Option: Pole Cap (PN 179172) | 70 lb | $940.00 |
| **179172** | Aluminum pole cap, 4.5 in (for use when traffic light not mounted on pole) | | $49.00 |
| **87111** | Side mount brackets include 12 in nipples and universal hubs, bracket, aluminum upper and lower assembly | 10 lb | $215.00 |
| **84504** | Anchor bolt with nut washer | 2 lb | $5.00 |
| **160242** | Kit; dual traffic light | | $4,770.00 |
| **160208** | Control panel, dual traffic light | | $780.00 |
| **156106** | Buzzer box, 115 VAC | | $595.00 |
| **163734** | Switch box, remote (includes legend plates for Zero, Print, Tare, Cancel and Accept) | | $270.00 |



*Anchor bolt with nut and washer*



*Side Mount Brackets*




*Buzzer Box*




*Control Panel*




*Switch Box*



*Traffic Light Pole*



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# Intercom



## Specifications

**Wiring:**
CAT5 to Ethernet adapter

**Communication:**
PC Software functions as base station for networked intercom system

## Standard Features

- Moisture and puncture resistant speaker
- Three-layer steel baffle protects speaker from tampering
- Hands-free communication
- Weather and vandal resistant

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **Consult** | Ethernet intercom | Consult |

# Ethernet Serial Servers





## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **159118** | Ethernet serial server dual serial port (two-terminal blocks) one Ethernet 10/100 (RJ45) DIN rail mounting | $477.00 |
| **197373** | Ethernet serial server four serial port (DB-9) one Ethernet 10/100 (RJ45) DIN rail mounting | $800.00 |





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# Balances

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RICE LAKE

# Equipoise® Series

Compact Balance

Capacity: 300 g-6,000 g  Readability: 0.01 g-0.2 g




## Standard Features

- Capacities between 300 g and 6,000 g
- Internal resolution: 1/600,000
- LCD display
- Quick response
- Accumulation, counting and percentage modes
- 13 different units of measure
- Detachable enclosed weighing chamber (in capacities ≤1 kg)
- Battery operation for up to 40 hours of continuous use (without backlight)
- Standard RS-232 interface for connecting to printer or PC
- Plastic enclosure
- AC adapter

APPROVALS

CE

## Specifications

| | EQ-300^ | EQ-600^ | EQ-1500 | EQ-3000 | EQ-6000 |
|---|---|---|---|---|---|
| **Part #** | **165338** | **165339** | **165340** | **165341** | **165342** |
| **List Price** | **$295.00** | **$295.00** | **$295.00** | **$295.00** | **$295.00** |
| Capacity | 300 g | 600 g | 1,500 g | 3,000 g | 6,000 g |
| **Resolution** | **0.01 g** | **0.02 g** | **0.05 g** | **0.1 g** | **0.2 g** |
| Weighing Units | Gram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Momme, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tola | | | | |
| Operating Modes | Weighing, Percent Weighing, Parts Counting, Accumulation | | | | |
| Repeatability (+/-) | 0.01 g | 0.02 g | 0.05 g | 0.1 g | 0.2 g |
| Linearity (+/-) | 0.02 g | 0.04 g | 0.1 g | 0.2 g | 0.4 g |
| Stabilization Time | 2 seconds | | | | |
| Operating Temperature | 32° F to 104° F (0° C to 40° C) | | | | |
| Weighing Chamber | 6.7 x 5.7 x 3.1 in (170 x 145 x 80 mm) | | N/A | N/A | N/A |
| **Pan Size** | **Ø 4.7 in (Ø 120 mm)** | | **4.8 in x 5.6 in (122 mm x 142 mm)** | | |
| Dimensions | 7.1 x 8.7 x 3.3 in (180 x 220 x 85 mm) | | | | |
| Est. Ship Weight | 6.6 lb (3 kg) | | | | |
| Calibration Weight | 300 g | 600 g | 1,500 g | 3,000 g | 6,000 g |
| Power | AC adapter (12 V/500 mA); internal rechargeable battery (6 V/1.2 Ah) | | | | |
| **Warranty** | **One-year Limited Warranty** | | | | |
| **Return Policy** | **Rice Lake Standard Policy** | | | | |

*^Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **165338** | EQ-300 | 300 g x 0.01 g | 6 lb | $295.00 |
| **165339** | EQ-600 | 600 g x 0.02 g | 6 lb | $295.00 |
| **165340** | EQ-1500 | 1,500 g x 0.05 g | 6 lb | $295.00 |
| **165341** | EQ-3000 | 3,000 g x 0.1 g | 6 lb | $295.00 |
| **165342** | EQ-6000 | 6,000 g x 0.2 g | 6 lb | $295.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **41279** | Printer cable, DB9M to 25-Pin M | $65.00 |
| **103141** | SP712 dot matrix printer, tear bar | $350.00 |
| **119919** | AbleCable RS-232/USB cable (requires 130789) | $185.00 |
| **130789** | Slim line null modem adapter | $12.00 |
| **131135** | Aluminum case | $100.00 |
| **165183** | AC adapter, 110-240 VAC, interchangeable plugs | $45.00 |



*PN 165183 Multi-range AC adapter and multi-plug*





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RICE LAKE

# TE Series

Tuning Fork Enhanced Balance

Capacity: 620 g - 15 kg  Readability: 0.001 g - 0.1 g



APPROVALS

## Standard Features

- External weight calibration
- Seven-segment (main)/16-segment (sub) display
- Selectable modes: Weighing, Counting, Percentage, Coefficient, Specific Gravity, Statistics, Animal and Formulation
- Mono-metal tuning fork technology (MMTF) provides quick response and stability
- 30-step bar graph display
- 100-240 VAC adapter included
- AA dry-cell port, (150 hours continuous use with LCD backlight and communication signal ON)
- RS-232 and USB
- Glass breeze break (TE-223 and TE-623 only)
- NTEP Certified (COC 17-104)

## Specifications

| | | TE-223^ | TE-623^ | TE-3202 | TE-6202 | TE-15001 |
|---|---|---|---|---|---|---|
| **Part #** | | **187600** | **186030** | **186035** | **186036** | **186037** |
| **List Price** | | **$1,050.00** | **$1,380.00** | **$1,145.00** | **$1,405.00** | **$1,100.00** |
| Capacity | | 220 g | 620 g | 3,200 g | 6,200 g | 15,000 g |
| **Resolution** | | **0.001 g** | **0.001 g** | **0.01 g** | **0.01 g** | **0.1 g** |
| **NTEP Resolution** | | **0.01 g** | **0.01 g** | **0.1 g** | **0.1 g** | **1.0 g** |
| Operating Modes | | Weighing, Counting, Percentage, Coefficient, Specific Gravity, Statistics, Animal, Formulation | | | | |
| Repeatability | | 1 division | | | | |
| Linearity | | 1 division | | | | |
| Operating Temperature | | 41° F to 95° F (5° C to 35° C) | | | | |
| **Pan Size** | | **4.6 in (118 mm)** | | **6.3 in x 7.1 in (160 mm x 180 mm)** | | |
| Dimensions | | 10.6 in x 8.1 in x 11.8 in (270 mm x 208 mm x 301 mm) | | 10.4 in x 7.5 in x 3.4 in (265 mm x 191.5 mm x 86 mm) | | |
| RS-232 Specifications | | Baud Rate 1200, 2400, 480, 9600, 19200, 38400, 57600, 115200 bps | | | | |
| Est. Ship Weight | | 6.5 lb (3 kg) | | 6.0 lb (2.7 kg) | | |
| Power | | 100-240 VAC adapter, AA dry cell (batteries not included) | | | | |
| Approvals | | NTEP CC 17-104 | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | |
| **Return Policy** | | **Rice Lake Standard Policy** | | | | |
| UNIT OF MEASURE | Gram | 220 x 0.001 g | 620 x 0.001 g | 3,200 x 0.01 g | 6,200 x 0.01 g | 15,000 x 0.1 g |
| | Carat | 1,100 x 0.01 ct | 3,100 x 0.01 ct | 16,000 x 0.1 ct | 31,000 x 0.1 ct | 75,000 x 1 g |
| | Pound | 0.48 x 0.00001 lb | 1.3 x 0.00001 lb | 7 x 0.0001 lb | 13 x 0.0001 lb | 33 x 0.001 lb |
| | Ounce | 7.7 x 0.0001 oz | 21 x 0.0001 oz | 110 x 0.001 oz | 210 x 0.001 oz | 520 x 0.01 oz |
| | Troy Ounce | 7 x 0.0001 ozt | 19 x 0.0001 ozt | 100 x 0.001 ozt | 190 x 0.001 ozt | 480 x 0.01 ozt |
| | Grain | 3,300 x 0.1 GN | 9,500 x 0.1 GN | 49,000 x 1 GN | 95,000 x 1 GN | 230,000 x 10 GN |
| | Pennyweight | 140 x 0.001 dwt | 390 x 0.001 dwt | 2,000 x 0.01 dwt | 3,900 x 0.01 dwt | 9,600 x 0.1 dwt |
| | Momme | 58 x 0.001 mom | 160 x 0.001 mom | 850 x 0.01 mom | 1,600 x 0.01 mom | 4,000 x 0.1 mom |
| | MSG | 47 x 0.001 MSG | 130 x 0.001 MSG | 690 x 0.01 MSG | 1,300 x 0.01 MSG | 3,200 x 0.1 MSG |
| | Tael (Hong Kong) | 5.8 x 0.0001 TL | 16 x 0.0001 TL | 85 x 0.001 TL | 160 x 0.001 TL | 400 x 0.01 TL |
| | Tael (Singapore) | 5.8 x 0.0001 TL | 16 x 0.0001 TL | 84 x 0.001 TL | 160 x 0.001 TL | 390 x 0.01 TL |
| | Tael (Taiwan) | 5.8 x 0.0001 TL | 16 x 0.0001 TL | 85 x 0.001 TL | 160 x 0.001 TL | 400 x 0.01 TL |
| | Tola | 18 x 0.0001 to | 53 x 0.0001 to | 270 x 0.001 to | 530 x 0.001 to | 1,200 x 0.01 to |
| | Bat | 14 x 0.0001 Bat | 40 x 0.0001 Bat | 210 x 0.001 Bat | 400 x 0.001 Bat | 980 x 0.01 Bat |
| | Milligrams | 220,000 x 1 mg | 620,000 x 1 mg | 3,200,000 x 10 mg | 6,200,000 x 10 mg | 15,000,000 x 100 mg |

*^Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **187600** | TE-223 | 220 g x 0.001 g | $1,050.00 |
| **186030** | TE-623 | 620 g x 0.001 g | $1,380.00 |
| **186035** | TE-3202 | 3,200 g x 0.01 g | $1,145.00 |
| **186036** | TE-6202 | 6,200 g x 0.01 g | $1,405.00 |
| **186037** | TE-15001 | 15,000 g x 0.1 g | $1,100.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **186074** | Power supply 100-240 VAC, 50-60 Hz | $66.00 |
| **186075** | In-use dust cover 623 g models and lower | $26.00 |
| **186076** | In-use dust cover 3,200 g models and higher | $26.00 |
| **186077** | Specific Density Measurement Kit | $600.00 |
| **186079** | Ethernet TCP/IP option card | $600.00 |





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RICE LAKE

# TC Series

Tuning Fork Compact Balance

Capacity: 620 g-6,200 g  Readability: 0.01 g-0.1 g




## Standard Features

- Large, 16.5 mm-high, backlit liquid crystal display (LCD)
- Selectable modes: Weight, Unit Count and Percentage
- 12 units of measurement
- Mono-metal tuning fork sensor (MMTF) provides quick response and stability
- 20-step bar graph display
- 115 VAC adapter included (230 VAC optional)
- Semi-automatic calibration, external weight
- Plastic housing on models <1000 g, plastic top and die cast bottom on models >1000 g

## Options

- Rechargeable battery
- Under-hook weighing
- RS-232 bidirectional

## Specifications

| | | TC-620 | TC-1200 | TC-4200 | TC-6200 |
|---|---|---|---|---|---|
| **Part #** | | **107232** | **107233** | **107234** | **107235** |
| **List Price** | | **$715.00** | **$655.00** | **$715.00** | **$770.00** |
| Capacity | | 620 g | 1,200 g | 4,200 g | 6,200 g |
| **Resolution** | | **0.01 g** | **0.1 g** | **0.1 g** | **0.1 g** |
| Operating Modes | | Count, Percentage, Limit Function (checkweighing) | | | |
| Repeatability | | 1 division | | | |
| Linearity | | 1 division | | | |
| Operating Temperature | | 41° F to 95° F (5° C to 35° C) | | | |
| **Pan Size** | | **Ø 5.5 in (139.7 mm)** | **6.7 in x 5.6 in (170.2 x 142.2 mm)** | **7 in x 6.2 in (177.8 x 157.5 mm)** | |
| Dimensions | | 9.2 x 7.1 x 2.9 in (234 x 180 x 74 mm) | 10.4 x 7.5 x 3.4 in (264 x 191 x 86 mm) | | |
| Weight (Approx.) | | 2.9 lb (1.3 kg) | | 5.9 lb (2.7 kg) | |
| Calibration Weight | | 600 g | 1,200 g | 4,000 g | 6,200 g |
| Power | | 120 VAC adapter | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | |
| **Return Policy** | | **Rice Lake Standard Policy** | | | |
| UNIT OF MEASURE | Decimal Ounce | 21 x 0.0005 oz | 42 x 0.005 oz | 140 x 0.005 oz | 210 x 0.005 oz |
| | Decimal Pound | 1.3 x 0.00005 lb | 2.6 x 0.0005 lb | 9.2 x 0.0005 lb | 13 x 0.0005 lb |
| | Troy Ounce | 19 x 0.0005 ozt | 38 x 0.005 ozt | 130 x 0.005 ozt | 190 x 0.005 ozt |
| | Pennyweight | 390 x 0.01 dwt | 770 x 0.1 dwt | 2,700 x 0.1 dwt | 3,900 x 0.1 dwt |
| | Carat | 3,100 x 0.05 ct | 6,000 x 0.5 ct | 21,000 x 0.5 ct | 31,000 x 0.5 ct |
| | Momme | 160 x 0.005 mom | 320 x 0.05 mom | 1,100 x 0.05 mom | 1,600 x 0.05 mom |
| | Grain Unit | 9,500 x 0.2 GN | 18,000 x 2 GN | 64,000 x 2 GN | 95,000 x 2 GN |
| | Tael (Hong Kong) | 16 x 0.0005 TL | 32 x 0.005 TL | 110 x 0.005 TL | 160 x 0.005 TL |
| | Tael (Singapore, Malaysia, Taiwan) | 16 x 0.0005 TL | 31 x 0.005 TL | 110 x 0.005 TL | 160 x 0.005 TL |
| | Tola | 53 x 0.001 to | 100 x 0.01 to | 360 x 0.01 to | 530 x 0.01 to |



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **107232** | TC-620 | 620 g x 0.01 g | $715.00 |
| **107233** | TC-1200 | 1,200 g x 0.1 g | $655.00 |
| **107234** | TC-4200 | 4,200 g x 0.1 g | $715.00 |
| **107235** | TC-6200 | 6,200 g x 0.1 g | $770.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **107236** | Rechargeable battery TC-620, TC-1200, 32 hr | $102.00 |
| **107237** | Rechargeable battery TC-4200, TC-6200, 32 hr | $102.00 |
| **107238** | RS-232 option with DIN-5-Pin connector (not compatible with battery option) (TC-620, TC-1200) | $127.00 |
| **107239** | RS-232 option with DIN-5-Pin connection (not compatible with battery option) (TC-4200,TC-6200) | $127.00 |
| **107240** | In-use dust cover, 620 g to 1,200 g | $26.00 |
| **107250** | In-use dust cover, 4,200 g to 6,200 g | $26.00 |
| **109236** | Underweigh hook TC-620, TC-1200 | $26.00 |
| **109292** | Underweigh hook TC-4200, TC-6200 | $26.00 |
| **42566** | 120 VAC adapter/12 VDC | $66.00 |
| **42168** | 230 VAC adapter | $72.00 |
| **107243** | Additional operating manual | $15.00 |
| **75351** | WinWedge® software | $325.00 |
| **115303** | Five-pin DIN to DB9F RS-232 cable | $95.00 |
| **115148** | RS-232 manual | $5.00 |





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RICE LAKE

# TP Series

Tuning Fork Precision Balance

Capacity: 220 g-12,000 g  Readability: 0.001 g-0.1 g



## Standard Features

- External weight calibration
- Large, 16.5 mm-high backlit liquid crystal display (LCD)
- Selectable modes: Weight, Unit, Count and Percentage
- 12 units of measurement
- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- 20-step bar graph display
- 115 VAC adapter included (230 VAC optional)
- One part in 620,000 resolution
- RS-232 bidirectional
- Plastic housing on models <1,000 g, plastic top and die cast bottom on models >1,000 g

## Options

- Rechargeable battery
- Under-hook weighing

## Specifications

| | TP-220^ | TP-820 | TP-3200 | TP-8200 | TP-12K |
|---|---|---|---|---|---|
| **Part #** | **107244** | **107245** | **107246** | **107247** | **107248** |
| **List Price** | **$1,020.00** | **$1,020.00** | **$1,155.00** | **$1,020.00** | **$1,175.00** |
| Capacity | 220 g | 820 g | 3,200 g | 8,200 g | 12,000 g |
| **Resolution** | **0.001 g** | **0.01 g** | **0.01 g** | **0.1 g** | **0.1 g** |
| Operating Modes | Counting, Percentage, Limit Function (checkweighing) | | | | |
| Repeatability | 1 division | | | | |
| Linearity | 1 division | | | | |
| Operating Temperature | 41° F to 95° F (5° C to 35° C) | | | | |
| **Pan Size** | **Ø 4.6 in (116.8 mm)** | **6.6 in x 5.5 in (167.6 x 139.7 mm)** | **7 in x 6.2 in (177.8 x 157.5 mm)** | | |
| Dimensions | 9.2 x 7.1 x 6.6 in (including windshield) (235 x 182 x 170 mm) | 9.2 x 7.1 x 2.9 in (235 x 182 x 75 mm) | 10.1 x 7.5 x 3.4 in (265 x 192 x 87 mm) | | |
| RS-232 Specifications | Baud rate - 1200/2400/2800/9600; Data bits - 8, Connector - DIN 5-Pin | | | | |
| Est. Ship Weight | 2.9 lb (1.3 kg) | | 6.2 lb (2.8 kg) | | |
| Calibration Weight | 200 g | 800 g | 3,000 g | 8,000 g | 12,000 g |
| Power | 120 VAC adapter | | | | |
| Battery Option | Nickel Cadmium battery, 12-hour run time, 24-hour charge time | | | | |
| **Warranty** | **Five-year Limited Warranty** | | | | |
| **Return Policy** | **Rice Lake Standard Policy** | | | | |

*^Weighing Chamber*



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## Specifications

| | | TP-220^ | TP-820 | TP-3200 | TP-8200 | TP-12K |
|---|---|---|---|---|---|---|
| Part # | | 107244 | 107245 | 107246 | 107247 | 107248 |
| UNIT OF MEASURE | Decimal Ounce | 7.7 x 0.00005 oz | 28 x 0.0005 oz | 110. x 0.0005 oz | 280 x 0.005 oz | 420 x 0.005 oz |
| | Decimal Pound | 0.48 x 0.00001 lb | 1.8 x 0.00005 lb | 7.0 x 0.00005 lb | 18 x 0.0005 lb | 26 x 0.0005 lb |
| | Troy Ounce | 7 x 0.00005 ozt | 26 x 0.0005 ozt | 100 x 0.0005 ozt | 260 x 0.005 ozt | 380 x 0.005 ozt |
| | *Pennyweight | 140 x 0.001 dwt | 520 x 0.01 dwt | 2,000 x 0.01 dwt | 5,200 x 0.1 dwt | 7,700 x 0.1 dwt |
| | Carat | 1,100 x 0.01 ct | 4,100 x 0.05 ct | 160,000 x 0.05 ct | 41,000 x 0.5 ct | 60,000 x 0.5 ct |
| | Momme | 58 x 0.0005 mom | 210 x 0.005 mom | 850 x 0.01 mom | 2,100 x 0.05 mom | 3,200 x 0.05 mom |
| | Grain Unit | 3,300 x 0.02 GN | 12,000 x 0.2 GN | 48,000 x 0.2 GN | 120,000 x 2 GN | 180,000 x 2 GN |
| | Tael | 5.8 x 0.00005 TL | 21 x 0.0005 TL | 85 x 0.001 TL | 210 x 0.005 TL | 320 x 0.005 TL |
| | Tola | 18 x 0.0001 to | 70 x 0.001 to | 270 x 0.001 to | 700 x 0.01 to | 1,000 x 0.01 to |
| | Measurable Unit Weight in Counting Mode | 0.03 g | 0.03 g | 0.3 g | 3 g | 3 g |

*^Weighing Chamber*

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **107244** | TP-220 | 220 g x 0.001 g | $1,020.00 |
| **107245** | TP-820 | 820 g x 0.01 g | $1,020.00 |
| **107246** | TP-3200 | 3,200 g x 0.01 g | $1,155.00 |
| **107247** | TP-8200 | 8,200 g x 0.1 g | $1,020.00 |
| **107248** | TP-12K | 12,000 g x 0.1 g | $1,175.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **107249** | Rechargeable battery ≤TP-820 | $102.00 |
| **107237** | Rechargeable battery ≥TP-3200 | $102.00 |
| **107250** | In-use dust cover ≥TP-3200 | $26.00 |
| **107240** | In-use dust cover ≤TP-820 | $26.00 |
| **109236** | Underweigh hook ≤TP-820 | $26.00 |
| **109292** | Underweigh hook ≥TP-3200 | $26.00 |
| **42566** | 115 VAC adapter/12 VDC | $66.00 |
| **42168** | 230 VAC adapter | $72.00 |
| **107251** | Additional operating manual | $15.00 |
| **75351** | WinWedge® Tal software | $325.00 |
| **115303** | Five-pin to nine-pin DB female RS-232 cable | $95.00 |





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RICE LAKE

# TS Series

Tuning Fork Stainless Steel Washdown Balance

Capacity: 620 g-8,200 g  Readability: 0.01 g-0.1 g



## Standard Features

- Stainless steel, IP65 top housing
- Large, 18 mm liquid crystal display (LCD) with blacklight
- Selectable modes
- 13 units of measurement
- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- Washdown with IP65 rating
- 115 VAC adapter included (230 VAC optional)
- Semi-automatic calibration, external weight
- RS-232 bidirectional

## Options

- Battery holder
- Under-hook weighing
- Waterproof RS-232 cable

## Specifications

| | | TS-620 | TS-6200 | TS-8200 |
|---|---|---|---|---|
| **Part #** | | **108156** | **108157** | **112182** |
| **List Price** | | **$1,325.00** | **$1,430.00** | **$1,505.00** |
| Capacity | | 620 g | 6,200 g | 8,200 g |
| **Resolution** | | **0.01 g** | **0.1 g** | **0.1 g** |
| Operating Modes | | Counting, Percentage, Limit Function (Checkweighing), Weighing Multiplied by Coefficient, Specific Gravity, Animal Weighing, Adding Multiple Measurements | | |
| Repeatability | | 1 division | | |
| Linearity | | 1 division | | |
| Operating Temperature | | 0° C to 40° C 80% RH or less | | |
| **Pan Size** | | **Ø 140 mm (5.51 in)** | **190 x 190 mm (7.48 X 7.48 in)** | |
| RS-232 Specifications | | Baud rate - 1200/2400/4800/9600/19200, Data bits 8/7; Connector - Nine-Pin D-Sub M (not IP65 unless using PN 109238 cable) | | |
| Dimensions | | 12.2 x 8.2 x 3.4 in (310 x 208 x 87 mm) | | |
| Weight (Approx.) | | 10 lb (4.5 kg) | | |
| Calibration Weight* | | 600 g | 6,000 g | 8,000 g |
| Power | | 120-240 VAC adapter, multi-plug adapter | | |
| Battery Option | | Field installable, uses 4 AA dry cell batteries | | |
| **Warranty** | | **Five-year Limited Warranty** | | |
| **Return Policy** | | **Rice Lake Standard Policy** | | |
| UNIT OF MEASURE | Decimal Ounce | 21 x 0.0005 oz | 210 x 0.005 oz | 280 x 0.005 oz |
| | Decimal Pound | 1.3 x 0.00005 lb | 13 x 0.0005 lb | 18 x 0.0005 lb |
| | Troy Ounce | 19 x 0.0005 ozt | 190 x 0.005 ozt | 260 x 0.005 ozt |
| | Pennyweight | 390 x 0.01 dwt | 3,900 x 0.1 dwt | 5,200 x 0.1 dwt |
| | Carat | 3,100 x 0.05 ct | 31,000 x 0.5 ct | 41,000 x 0.5 ct |
| | Momme | 160 x 0.005 mom | 1,600 x 0.05 mom | 2,100 x 0.05 mom |
| | Grain Unit | 9,500 x 0.2 GN | 95,000 x 2 GN | 120,000 x 2 GN |

** Calibration of balance does not require weight of full capacity (adjustable)*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **108156** | TS-620 | 620 g x 0.01 g | $1,325.00 |
| **108157** | TS-6200 | 6,200 g x 0.1 g | $1,430.00 |
| **112182** | TS-8200 | 8,200 g x 0.1 g | $1,505.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **108499** | AC adapter, multi-range 110:230 VAC, 6 VDC | $51.00 |
| **72440** | Nine-pin D-sub F-25-Pin D-sub connector | $65.00 |
| **22436** | Nine-pin D-sub F to blunt end | $65.00 |
| **66535** | Null modem cable | $45.00 |
| **119064** | Slimline adapter, null modem gender changer | $10.50 |
| **109236** | Under weigh hook | $26.00 |
| **109238** | Waterproof RS-232 cable | $350.00 |
| **109050** | Additional operating manual | $15.00 |
| **112611** | Battery operator manual | $5.00 |
| **112516** | Battery holder option, requires 4 AA batteries (not included) | $102.00 |
| **119919** | AbleCable, requires null modem cable PN 66535 | $185.00 |





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RICE LAKE

# TA Plus

Tuning Fork Analytical Balance

Capacity: 120 g-220 g  Readability: 0.0001 g



## Standard Features

- Anti-electrostatic 360° transparent windshield
- Eight-digit, 16.5 mm-high liquid crystal display (LCD) with blacklight
- Single-touch response setting for environment
- 40-step bar graph display
- RS-232C interface
- ISO/GLP/GMP compliant printing record
- Underweigh hook included
- Internal calibration
- Plastic housing

## Specifications

| | | TA Plus-124^ | TA Plus-224^ |
|---|---|---|---|
| **Part #** | | **196569** | **196570** |
| **List Price** | | **$1,975.00** | **$1,995.00** |
| Capacity | | 120 g | 220 g |
| **Resolution** | | **0.0001 g** | **0.0001 g** |
| Operating Modes | | Counting, Percentage, Limit Function (Checkweighing), Specific Gravity | |
| Repeatability | | 1 division | |
| Linearity | | 1 division | |
| Operating Temperature | | 50° F to 86° F (10° C to 30° C) 80% RH or lower | |
| RS232 Specifications | | Baud rate - 1200/2400/4800/9600/19200 bps, 8/7 data bits, Parity bit-None/Odd/Even | |
| **Pan Size** | | **Ø 3.15 in (80 mm)** | |
| Dimensions | | 11 x 7.9 x 12 in (290 x 200 x 306 mm) | |
| Weight (Approx.) | | 6.4 lb (2.9 kg) | |
| Calibration Weight | | 120 g | 220 g |
| Power | | 120 VAC adapter | |
| **Warranty** | | **Five-year Limited Warranty** | |
| **Return Policy** | | **Rice Lake Standard Policy** | |
| UNIT OF MEASURE | Decimal Ounce | 4.2 x 0.000005 oz | 7.7 x 0.000005 oz |
| | Decimal Pound | 0.26 x 0.000001 lb | 0.48 x 0.000001 lb |
| | Troy Ounce | 3.8 x 0.000005 ozt | 7 x 0.000005 ozt |
| | Pennyweight | 77 x 0.0001 dwt | 140 x 0.0001 dwt |
| | Carat | 600 x 0.0005 ct | 1100 x 0.001 ct |
| | Momme | 32 x 0.00005 mom | 58 x 0.00005 mom |
| | Grain Unit | 1,800 x 0.002 GN | 3,300 x 0.002 GN |
| | Tael | 3.2 x 0.000005 TL | 5.8 x 0.00005 TL |
| | Tola | 10 x 0.00001 to | 18 x 0.00001 to |

*^ Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **196569** | TA Plus-124 | 120 g x 0.0001 g | $1,975.00 |
| **196570** | TA Plus-224 | 220 g x 0.0001 g | $1,995.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **108255** | 115 VAC adapter | $51.00 |
| **108256** | 230 VAC adapter | $77.00 |
| **108257** | In-use cover | $51.00 |
| **107398** | Additional operating manual | $15.00 |
| **75351** | WinWedge® Tal software | $325.00 |
| **66535** | Null modem cable | $45.00 |
| **119919** | AbleCable, requires null modem cable PN 66535 | $185.00 |





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A&D WEIGHING

# MC Series

Mass Comparator

Capacity: 31 kg  Readability: 0.0001 g



## Standard Features

- Super hybrid sensor technology
- Bright VFD display
- Manage ASTM and OIML weights
- Underhook weighing
- Built-in calibration weight
- GLP/LIM/ISO compliant
- RS-232C

## Specifications

| | MC-1000S^ | MC-6100^ | MC-10K^ | MC-30K^ |
|---|---|---|---|---|
| **Part #** | **151262** | **151263** | **151264** | **151265** |
| **List Price** | **$6,470.00** | **$6,470.00** | **$7,750.00** | **$7,750.00** |
| Capacity | 1,100 g | 6,100 g | 10.1 kg | 31 kg |
| **Resolution** | **0.1 mg** | **0.001 g** | **0.001 g** | **0.01 g** |
| Operating Modes | Weighing, Percentage, Comparator | | | |
| Weighing Units | g, oz, lb, lb-oz, troy oz, ct, dwt, grain, momme | | | |
| Repeatability** | 0.0005 g/1 kg/0.0004 g/500 g | 0.004 g/5 kg/0.0015 g/2 kg | 0.005 g/10 kg/0.004 g/5 kg | 0.015 g/20 kg |
| Linearity | ±0.002 g | ±0.02 g | ±0.03 g | ±0.2 g |
| Stabilization Time | 5 seconds | | | |
| Sensitivity Drift (10° C-30° C) | ±2 ppm/° C | | | ±3 ppm/0° C |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation) | | | |
| **Pan Size** | **128 x 128 mm** | **147 x 147 mm** | **270 x 210 mm** | |
| Physical Dimensions | 210 x 317 x 86 mm | | 300 x 355 x 111 mm | |
| Weight | 4.6 kg | 5.1 kg | 9.3 4g | |
| Ext. Cal. Mass (optional) | 1,000 g | 6,000 g | 10 kg | 30 kg |
| Power | 120/240 AC adapter | | | |
| **Warranty** | **Five-year Limited Warranty** | | | |
| **Return Policy** | **A&D Weighing Standard Policy - restock fee may apply** | | | |

*^ Weighing Chamber*
*** Repeatability when auto-centering is used under good ambient conditions*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **151262** | MC-1000S | 1,100 g x 0.1 mg, glass breeze break | $6,470.00 |
| **151263** | MC-6100S | 6,100 g x 0.001 g, glass breeze break | $6,470.00 |
| **151264** | MC-10KS | 10.1 kg x 0.001 g, breeze break | $7,750.00 |
| **151265** | MC-30KS | 31 kg x 0.01 g, breeze break | $7,750.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **151266** | AX-MC1000PAN | Auto center pan, MC-1000S | $1,173.00 |
| **151267** | AX-MC6100PAN | Auto center pan, MC-6100 | $1,173.00 |
| **151268** | AX-MC10K-30KPAN | Auto center pan, MC-10/30K | $1,500.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **97649** | TB:648 | AC adapter (120V/220V) | $44.00 |
| **97695*** | GX-04K | Comparator output, factory installed | $373.00 |
| **97696*** | GX-06K | Analog output, factory installed | $857.00 |
| **97699** | GX-12 | Animal weigh pan | $189.00 |
| **97700** | GX-13 | Density determination for MC-1000S | $653.00 |
| **97607** | AD-1682 | External rechargeable battery pack | $692.00 |
| **97612** | SW-128 | Foot switch | $75.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |

** Only one option may be installed and requires factory installation*





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A&D WEIGHING

# Ion BM Series

Micro, Semi-Micro Analytical Balances

Capacity: 520 g  Readability: 0.000001 g



## Standard Features

- Built-in fanless static eliminator
- Underhook weighing
- Anti-static glass
- Weighing chamber
- Built-in motorized calibration weight
- One touch environmental filters
- GLP/LIM/ISO compliant
- RS-232C and WinCT© software standard
- AD-1688 Weighing Data Logger included

## Specifications

| | | BM-20^ | BM-22^ | BM-252^ | BM-200^ | BM-300^ | BM-500^ |
|---|---|---|---|---|---|---|---|
| **Part #** | | **150762** | **150763** | **150765** | **150766** | **150767** | **150768** |
| **List Price** | | **$14,790.00** | **$13,668.00** | **$8,400.00** | **$6,615.00** | **$6,931.00** | **$7,344.00** |
| Capacity | | 22 g | 22 g/5.1 g | 250 g | 220 g | 320 g | 520 g |
| **Resolution** | | **0.000001 g** | **0.00001 g/0.000001 g** | **0.00001 g** | **0.0001 g** | **0.0001 g** | **0.0001 g** |
| Operating Modes | | Percentage, Counting | | | | | |
| Repeatability | | 0.0025 mg | 0.004 mg/0.01 mg | 0.03 mg | 0.1 mg | 0.2 mg | |
| Linearity | | ±0.010 mg | ±0.010 mg/0.02 mg | ±0.010 mg | ±0.2 mg | ±0.3 mg | ±0.5 mg |
| Stabilization Time | | 10 seconds (typically) | 8 to 10 seconds | 8 seconds | Approx. 3.5 seconds | | |
| Sensitivity Drift (10° C-30° C) | | ±2 ppm/° C (when automatic self calibration is not used) | | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C), 85% RH or less (no condensation) | | | | | |
| **Pan Size** | | **Ø 0.98 inches (25 mm)** | | **Ø 3.6 inches (90 mm)** | | | |
| Physical Dimensions | | (W x D x H) 10.2 x 18.3 x 12.8 in (259 x 466 x 326 mm) | | | | | |
| Weight | | 10 kg (ships by motor freight) | | | | | |
| Ext. Cal. Mass (optional) | | 20 g | | 200 g | 200 g | 300 g | 500 g |
| Power | | 120/240 AC Adapter | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Decimal Ounce | 0.776 x 0.00000001 oz | 0.18/0.776 x 0.0000001/0.000001 oz | 8.82 x 0.000001 oz | 7.76 x 0.00001 oz | 11.29 x 0.00001 oz | 18.34 x 0.000001 oz |
| | Troy Ounce | 0.707 x 0.0000001 ozt | 0.164/0.707 ozt | 8.03 x 0.0000001 ozt | 7.07 x 0.000001 ozt | 10.29 x 0.000001 ozt | 16.72 x 0.000001 ozt |
| | Pennyweight | 14.15 x 0.00001 dwt | 3.28/14.15 x 0.00001 x 0.0001 dwt | 160.7 x 0.00001 dwt | 141.5 x 0.0001 dwt | 20.58 x 0.0001 dwt | 334.4 x 0.0001 dwt |
| | Carat | 110 x 0.00001 ct | 25.5/110 x 0.00001/0.0001 ct | 1,250 x 0.0001 ct | 1,100 x 0.001 ct | 1,600 x 0.001 ct | 2,600 x 0.001 ct |
| | Momme | 5.87 x 0.000001 mom | 1.37/5.87 x 0.000001/0.00001 mom | 66.67 x 0.00001 mom | 58.7 x 0.0001 mom | 85.3 x 0.0001 mom | 138.7 x 0.0001 mom |
| | Grain Unit | 339.5 x 0.00002 GN | 78.71/339.5 x 0.00002/0.0002 GN | 3,858 x 0.0002 GN | 3,395 x 0.002 GN | 4,938 x 0.002 GN | 8,024 x 0.002 GN |

*^ Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **150762** | BM-20 | 22 g x 0.001 mg | $14,790.00 |
| **150763** | BM-22 | 5.1 g/22 g x 0.001 mg/0.01 mg | $13,668.00 |
| **150765** | BM-252 | 250 g x 0.01 mg | $8,400.00 |
| **150766** | BM-200 | 220 g x 0.1 mg | $6,615.00 |
| **150767** | BM-300 | 320 g x 0.1 mg | $6,931.00 |
| **150768** | BM-500 | 520 g x 0.1 mg | $7,344.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **150769** | BM-08 | Balance OPT, Ethernet BM | $852.00 |
| **97606** | AD-1653 | Density determination kit (BM-252/200/300/500 only) | $564.00 |
| **97609** | AD-8922A | Remote controller | $635.00 |
| **97608** | AD-8920A | Universal remote display | $270.00 |
| **97612** | SW:128 | Foot switch | $75.00 |
| **97649** | TB:648 | AC adapter (120 V/220 V) | $44.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |





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# Phoenix GH Series

Analytical/Semi-Micro Balances

Capacity: 120 g-250 g  Readability: 0.00001 g



## Standard Features

- Simple and easy to operate, adapts to your environment
- GLP/GMP/GCP/ISO compliant which outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Internal calibration mass; full digital calibration
- System diagnostic to alert operator of abnormal weighing conditions
- Weighing chamber
- Underhook weighing
- RS-232C bidirectional interface
- Data memory function
- Time and date function
- WinCT©; communication tools software
- Liquid crystal display (LCD)

## Specifications

| | | GH-120^ | GH-200^ | GH-300^ | GH-202^ | GH-252^ |
|---|---|---|---|---|---|---|
| **Part #** | | **97597** | **97599** | **97600** | **97601** | **97602** |
| **List Price** | | **$3,540.00** | **$4,010.00** | **$4,765.00** | **$5,350.00** | **$5,895.00** |
| Capacity | | 120 g | 220 g | 320 g | 220 g/51 g | 250 g/101 g |
| **Resolution** | | **0.0001 g** | **0.0001 g** | **0.0001 g** | **0.0001/ 0.00001 g** | **0.0001/ 0.00001 g** |
| Operating Modes | | Percentage, Counting | | | | |
| Repeatability | | ±0.2 mg | ±0.2 mg | ±0.3 mg | ±0.2 mg/±0.03 mg | ±0.2 mg/±0.10 mg |
| Linearity | | 0.1 mg | 0.1 mg | 0.2 mg | 0.1 mg/0.02 mg | 0.1 mg/0.03 mg |
| Stabilization Time | | Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg) | | | | |
| Sensitivity Drift (10° C-30° C) | | ±2 ppm/° C (when automatic self calibration is not used) | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40 C) 85% RH or less (no condensation) | | | | |
| **Pan Size** | | **Ø 3.6 in (90 mm)** | | | | |
| Physical Dimensions | | (W x D x H) 8.54 x 17.4 x 12.24 in (217 x 442 x 316 mm) | | | | |
| Weighing Chamber | | (W x D x H) 6.45 x 4.87 x 9.88 in (164 x 148.5 x 251 mm) | | | | |
| Weight | | Approx. 18 lb (8.2 kg) | | | | |
| Ext. Cal. Mass (optional) | | 50 g/100 g | 100 g/200 g | 100 g/200 g/300 g | 20 g/50 g/100 g/200 g | |
| Power | | 120 V AC (AC Adapter) 50 Hz/60 Hz, 11 VA (110, 220, 240 available by special order) | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | |
| UNIT OF MEASURE | Decimal Ounce | 4.23 x 0.00001 oz | 7.76 x 0.00001 oz | 11.29 x 0.00001 oz | 7.76 x 0.00001/1.80 x 0.000001 oz | 8.82 x 0.00001/3.56 x 0.000001 oz |
| | Troy Ounce | 3.86 x 0.00001 ozt | 7.07 x 0.00001 ozt | 10.29 x 0.00001 ozt | 7.07 x 0.00001/1.64 x 0.000001 ozt | 8.04 x 0.00001/3.25 x 0.000001 ozt |
| | Pennyweight | 77.2 x 0.0001 dwt | 141.5 x 0.0001 dwt | 205.8 x 0.0001 dwt | 141.5 x 0.0001/32.8 x 0.00001 dwt | 160.8 x 0.0001/64.9 x 0.00001 dwt |
| | Carat | 600 x 0.001 ct | 1,100 x 0.001 ct | 1,600 x 0.001 ct | 1,100 x 0.001/255 x 0.0001 ct | 1,250 x 0.001/505 x 0.0001 ct |
| | Momme | 32.0 x 0.0001 mom | 58.7 x 0.0001 mom | 85.3 x 0.0001 mom | 58.7 x 0.0001/13.6 x 0.00001 mom | 66.7 x 0.0001/26.9 x 0.00001 mom |
| | Grain Unit | 1,852 x 0.002 GN | 3,395 x 0.002 GN | 4,938 x 0.002 GN | 3,395 x 0.002/787 x 0.0002 GN | 3,858 x 0.002/1559 x 0.0002 GN |
| | Tola | 10.29 x 0.00001 to | 18.86 x 0.00001 to | 27.44 x 0.00001 to | 18.86 x 0.00001/4.37 x 0.000001 to | 21.43 x 0.00001/8.66 x 0.000001 to |
| | Tael | 3.20 x 0.00001 TL | 5.87 x 0.00001 TL | 8.53 x 0.00001 TL | 5.87 x 0.00001/1.36 x 0.000001 TL | 6.67 x 0.00001/2.69 x 0.000001 TL |

*^ Weighing Chamber*





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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97597** | GH-120 | 120 g x 0.0001 g | $3,540.00 |
| **97599** | GH-200 | 220 g x 0.0001 g | $4,010.00 |
| **97600** | GH-300 | 320 g x 0.0001 g | $4,765.00 |
| **97601** | GH-202 | 220/51 g x 0.0001/0.00001 g | $5,350.00 |
| **97602** | GH-252 | 250/101 g x 0.0001/0.00001 g | $5,895.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97604** | GH-08 | Ethernet option for GH | $699.00 |
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97606** | AD-1653 | Density determination kit | $564.00 |
| **97607** | AD-1682 | Rechargeable battery pack, external | $692.00 |
| **97608** | AD-8920A | Universal remote display | $270.00 |
| **97609** | AD-8922A | Remote controller | $635.00 |
| **97610** | AD-1683 | Static eliminator | $1,256.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **97612** | SW:128 | Foot switch | $75.00 |
| **97649** | TB:648 | AC adapter (120V/220V) | $44.00 |





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A&D WEIGHING

# Gemini GR Series

Analytical/Semi-Micro Balances

Capacity: 120 g-310 g  Readability: 0.00001 g-0.0001 g



*GR-202*

## Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Easy access door system
- Automatic self-calibration
- Data memory function
- Weighing chamber
- Underhook weighing
- Internal calibration
- Liquid Crystal Display (LCD)
- RS-232 bidirectional interface
- WinCT© communication tools software

## Specifications

| | | GR-120^ | GR-200^ | GR-300^ | GR-202^ |
|---|---|---|---|---|---|
| **Part #** | | **97625** | **97626** | **97627** | **97628** |
| **List Price** | | **$3,015.00** | **$3,495.00** | **$4,320.00** | **$4,930.00** |
| Capacity | | 120 g | 210 g | 310 g | 210/42 g |
| **Resolution** | | **0.0001 g** | **0.0001 g** | **0.0001 g** | **0.0001/ 0.00001 g** |
| Operating Modes | | Percentage, Counting | | | |
| Repeatability | | 0.0001 g | 0.0001 g | 0.0001 g | 0.0001/0.00002 g |
| Linearity | | ±0.0002 g | ±0.0002 g | ±0.0002 g | ±0.0002/±0.00003 g |
| Stabilization Time | | Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg) | | | |
| Sensitivity Drift (10° C to 30° C) | | ±2 ppm/° C 50° F to 86° F (10° C to 30° C) | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation) | | | |
| **Pan Size** | | **Ø 3.3 in (85 mm)** | | | |
| Physical Dimensions | | (W x D x H) 9.8 x 12.99 x 12.87 in (249 x 330 x 327 mm) | | | |
| Weighing Chamber | | (W x D x H) 7.01 x 6.5 x 9.17 in (178 x 160 x 233 mm) | | | |
| Weight | | Approx. 13.2 lb (6.0 kg) | | | |
| Ext. Cal. Mass (optional) | | 50 g/100 g | 100 g/200 g | 200 g/300 g | 100 g/200 g |
| Power | | 120 V AC (AC Adapter) 50Hz/60 Hz, 11 VA (110, 220, 240 VAC adapter by special order) | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | |
| UNIT OF MEASURE | Decimal Ounce | 4.2 x 0.00001 oz | 7.4 x 0.00001 oz | 10 x 0.00001 oz | 7.4 x 0.00001/1.4 x 0.000001 oz |
| | Troy Ounce | 3.8 x 0.00001 ozt | 6.7 x 0.00001 ozt | 9.9 x 0.00001 ozt | 6.7 x 0.00001/1.3 x 0.000001 ozt |
| | Pennyweight | 77 x 0.0001 dwt | 135 x 0.0001 dwt | 199 x 0.0001 dwt | 135 x 0.0001/27 x 0.00001 dwt |
| | Carat | 600 x 0.001 ct | 1,050 x 0.001 ct | 1,550 x 0.001 ct | 1,050 x 0.001/210 x 0.0001 ct |
| | Momme | 32 x 0.0001 mom | 56 x 0.0001 mom | 82 x 0.0001 mom | 56 x 0.0001/11 x 0.00001 mom |
| | Grain Unit | 1,851 x 0.002 GN | 3,240 x 0.002 GN | 4,784 x 0.002 GN | 3,240 x 0.002/648 x 0.0002 GN |
| | Tola | 10 x 0.00001 to | 18 x 0.00001 to | 26 x 0.00001 to | 18 x 0.00001/3.6 x 0.000001 to |
| | Tael | 3.1 x 0.00001 TL | 5.5 x 0.00001 TL | 8.2 x 0.00001 TL | 5.5 x 0.00001/1.1 x 0.000001 TL |

*^ Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97625** | GR-120 | 120 g x 0.0001 g | $3,015.00 |
| **97626** | GR-200 | 210 g x 0.0001 g | $3,495.00 |
| **97627** | GR-300 | 310 g x 0.0001 g | $4,320.00 |
| **97628** | GR-202 | 210/42 g x 0.0001/0.00001 g | $4,930.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97606** | AD-1653 | Density determination kit | $564.00 |
| **97607** | AD-1682 | Rechargeable battery pack | $692.00 |
| **97608** | AD-8920A | Universal remote display | $270.00 |
| **97609** | AD-8922A | Remote controller | $635.00 |
| **97610** | AD-1683 | Static eliminator | $1,256.00 |
| **97612** | SW:128 | Foot switch | $75.00 |
| **97649** | TB:648 | AC adapter (120V/220V) | $44.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |





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A&D WEIGHING

# HR-AZ/A Series

Analytical Balance

Capacity: 225 g Readability: 0.00001 g-0.0001 g



## Standard Features

- Fast stabilization time
- One-touch calibration in HR-AZ models
- Compact footprint size
- Weighing chamber
- Rotary sliding doors
- Removable breeze break with anti-static coating
- GLP/GMP/GCP/ISO compliant

## Specifications

| | | HR-100A^ | HR-100AZ^ | HR-150A^ | HR-150AZ^ | HR-250A^ | HR-250AZ^ |
|---|---|---|---|---|---|---|---|
| **Part #** | | **150777** | **150779** | **150780** | **150781** | **150782** | **150783** |
| **List Price** | | **$1,795.00** | **$2,240.00** | **$1,920.00** | **$2,350.00** | **$2,085.00** | **$2,555.00** |
| Capacity (g) | | 102 | | 152 | | 252 | |
| **Resolution (g)** | | **0.0001** | | | | | |
| Operating Modes | | Weighing, Percent Weighing, Parts Counting, Density | | | | | |
| Repeatability | | 0.1 mg | | | | <200 mg 0.1 mg/>200 mg 0.2 mg | |
| Linearity | | ± 0.2 mg | | | | ± 0.3 mg | |
| Stabilization Time | | 3 seconds | | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C), 85% RH or less (no condensation) | | | | | |
| **Pan Size** | | **Ø 3.6 inches (90 mm)** | | | | | |
| Physical Dimensions | | 7.8 x 11.6 x 12.3 in (198 x 294 x 313 mm) | | | | | |
| Weight | | 8.6 lb (3.9 kg) | | | | | |
| Calibration Weight (g) | | 200 | | 150 | | 100 | |
| Power | | 120/240 AC adapter | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Decimal Ounce | 3.59 x 0.00001 oz | 3.59 x 0.00001 oz | 5.36 x 0.00001 oz | 5.36 x 0.00001 oz | 8.88 x 0.00001 oz | 8.88 x 0.00001 oz |
| | Troy Ounce | 3.27 x 0.00001 ozt | 3.27 x 0.00001 ozt | 4.88 x 0.00001 ozt | 4.88 x 0.00001 ozt | 8.10 x 0.00001 ozt | 8.10 x 0.00001 ozt |
| | Pennyweight | 65.5 x 0.0001 dwt | 65.5 x 0.0001 dwt | 97.7 x 0.0001 dwt | 97.7 x 0.0001 dwt | 162 x 0.0001 dwt | 162 x 0.0001 dwt |
| | Carat | 510 x 0.001 ct | 510 x 0.001 ct | 760 x 0.001 ct | 760 x 0.001 ct | 1260 x 0.001 ct | 1260 x 0.001 ct |
| | Momme | 27.2 x 0.0001 mom | 27.2 x 0.0001 mom | 40.5 x 0.0001 mom | 40.5 x 0.0001 mom | 67.2 x 0.0001 mom | 67.2 x 0.0001 mom |
| | Grain Unit | 1,574 x 0.002 GN | 1,574 x 0.002 GN | 2,346 x 0.002 GN | 2,346 x 0.002 GN | 3,889 x 0.002 GN | 3,889 x 0.002 GN |
| | Tola | 8.74 x 0.00001 to | 8.74 x 0.00001 to | 13.0 x 0.00001 to | 13.0 x 0.00001 to | 21.6 x 0.00001 to | 21.6 x 0.00001 to |
| | Tael | 2.72 x 0.00001 TL | 2.72 x 0.00001 TL | 4.02 x 0.00001 TL | 4.02 x 0.00001 TL | 6.66 x 0.00001 TL | 6.66 x 0.0001 TL |

*^ Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **150777** | HR-100A | 102 g x 0.0001 g | $1,795.00 |
| **150779** | HR-100AZ | 102 g x 0.0001 g | $2,240.00 |
| **150780** | HR-150A | 152 g x 0.0001 g | $1,920.00 |
| **150781** | HR-150AZ | 152 g x 0.0001 g | $2,350.00 |
| **150782** | HR-250A | 252 g x 0.0001 g | $2,085.00 |
| **150783** | HR-250AZ | 252 g x 0.0001 g | $2,555.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **151247** | AD-1688 | Data logger | $311.00 |
| **98027*** | FXi-02 | Quick USB interface with cable | $89.00 |
| **98028*** | FXi-08 | Ethernet interface with WIN-CT Plus | $490.00 |
| **98029*** | FXi-09 | Rechargeable battery | $327.00 |
| **97649** | TB:648 | AC adapter (120V/220V) | $44.00 |

**Only one option may be installed and factory installation required*





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A&D WEIGHING

# Orion HR Series

Analytical/Semi-Micro

Capacity: 51 g-320 g  Readability: 0.00001 g-0.0001 g



## Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- System diagnostics to alert the operator of abnormal weighing conditions
- RS-232C bidirectional interface (option for HR-60, HR-120 and HR-200; standard for HR-300i and HR-202i)
- Weighing chamber
- Underhook capability for density measurement and weighing magnetic materials
- Liquid Crystal Display (LCD)
- WinCT© communication tools software

*Note: Orion HR series does have internal calibration*

## Specifications

| | | HR-300i^ | HR-202i^ |
|---|---|---|---|
| **Part #** | | **97642** | **97641** |
| **List Price** | | **$4,185.00** | **$4,645.00** |
| Capacity | | 320 g | 220/51 g |
| **Resolution** | | **0.0001 g** | **0.0001/ 0.00001 g** |
| Operating Modes | | Percentage, Counting | |
| Repeatability | | ±0.0003 mg | ±0.0002/±0.00003 g |
| Linearity | | 0.0002 mg | 0.0001/0.00002 g |
| Stabilization Time | | Approx. 3.5 seconds | Approx. 3.5/8 seconds |
| Sensitivity Drift (10° C-30° C) | | ±2 ppm/° C (when automatic self calibration is not used) | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation) | |
| **Pan Size** | | **Ø 3.6 in (90 mm)** | |
| Dimensions | | (W x D x H) 8.54 x 17.4 x 12.24 in (217 x 442 x 316 mm) | |
| RS-232 | | Y | |
| Weighing Chamber | | (W x D x H) 6.45 x 5.84 x 9.88 in (164 x 148.5 x 251 mm) | |
| Weight | | Approx. 17.6 lb (8.0 kg) | |
| Ext. Cal. Mass (optional) | | 300 g/200 g/100 g | 200 g/100 g/50 g/20 g |
| Power | | 120 V AC (AC adapter) 50 Hz/60 Hz (110, 220, 240 V AC adapter available by special order) | |
| **Warranty** | | **Five-year limited warranty** | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | |
| UNIT OF MEASURE | Decimal Ounce | 11.29 x 0.00001 oz | 7.76 x 0.00001/1.8 x 0.000001 oz |
| | Troy Ounce | 10.3 x 0.00001 ozt | 7.07 x 0.00001/1.64 x 0.000001 ozt |
| | Pennyweight | 199 x 0.0001 dwt | 141.5 x 0.0001/32.8 x 0.00001 dwt |
| | Carat | 1,550 x 0.001 ct | 1,100 x 0.001/255 x 0.0001 ct |
| | Momme | 82 x 0.0001 mom | 58.7 x 0.0001/13.6 x 0.00001 mom |
| | Grain Unit | 4,784 x 0.002 GN | 3,395 x 0.002/787 x 0.0002 GN |
| | Tola | 26 x 0.00001 to | 18.8 x 0.00001/4.37 x 0.000001 to |
| | Tael | 8.2 x 0.00001 TL | 5.87 x 0.00001/1.36 x 0.000001 TL |

*^ Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97642** | HR-300i | 320 g x 0.0001 g | $4,185.00 |
| **97641** | HR-202i | 220/51 g x 0.0001/0.00001 g | $4,645.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97606** | AD-1653 | Density determination kit | $564.00 |
| **97607** | AD-1682 | Rechargeable battery pack, external | $692.00 |
| **97608** | AD-8920A | Universal remote display | $270.00 |
| **97610** | AD-1683 | Static eliminator | $1,256.00 |
| **97609** | AD-8922A | Remote controller | $635.00 |
| **97649** | TB:648 | AC adapter (120V/220V) | $44.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |



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A&D WEIGHING

# AD-4212A Series

Analytical Balances

Capacity: 110 g-1100 g  Readability: 0.00001 g-0.001 g



## Standard Features

- Comparator output (Hi/OK/Lo) feature for manual or automatic operation as well as buzzer function
- GLP/GMP compliant software output
- Breeze break for maximum accuracy and fastest response
- Standard calibration weight
- Simple operator reference card provided
- Multi-weighing units
- Time and date clock function
- Data memory function for weighing, calibration, counting and Hi/OK/Lo values
- Counting and percent mode
- Super Hybrid Sensor Technology (SHS)
- WinCT© communication tools software
- RS-232C bidirectional interface

## Specifications

| | | AD-4212A-100 | AD-4212B-102 | AD-4212A-200 | AD-4212B-201 |
|---|---|---|---|---|---|
| **Part #** | | **97654** | **102925** | **97655** | **102926** |
| **List Price** | | **$5,660.00** | **$8,750.00** | **$4,970.00** | **$6,695.00** |
| Capacity | | 110 g | 110 g | 210 g | 210 g |
| **Resolution** | | **0.0001 g** | **0.00001 g** | **0.001 g** | **0.0001 g** |
| Operating Modes | | Counting, Percentage | | | |
| Repeatability (Std. Dev.) | | 0.00015 g | 0.00015 g | 0.001 g | |
| Linearity | | ±0.0003 g | ±0.0003 g | ±0.002 g | ±0.002 g |
| Stabilization Time (typical) | | 0 g-30 g Approx. 1.1 sec | 0 g-30 g Approx. 1.1 sec | 0 g-30 g Approx. 0.8 sec | 0 g-30 g Approx. 0.8 sec |
| | | 30 g-110 g Approx. 1.3 sec | 30 g-110 g Approx. 1.3 sec | 30 g- 210 g Approx. 1.0 sec | 30 g-210 g Approx. 1.0 sec |
| Sensitivity Drift | | ±2 ppm/°C 10°C to 30°C (50°F to 86°F) | | | |
| Operating Temperature | | 41°F to 104°F (5°C to 40°C) 85% RH or less (no condensation) | | | |
| I/O Interface | RS-232C | Bidirectional 600-19,200 | | | |
| | Comparator Output | 3 level output with buzzer | | | |
| | External Contact Input | Re-zero and print | | | |
| Weighing Unit | Dimensions | (W x D x H) 3.2 x 9.1 x 3.5 in (80 x 230 x 90 mm) | | | |
| | **Weighing Pan** | **2 x 2 in (50 x 50 mm)** | | | |
| | Weight | Approx. 2 kg | | | |
| Display Unit | Dimensions | (W x D x H) 9.3 x 6.0 x 6.1 in (237 x 150 x 155 mm) | | | |
| | Weight | Approx. 2 kg | | | |
| Connection Cable | | Approx. 2 m (between weighing unit and display unit) | | | |
| Shipping Weight | | 8.5 lb (4 kg) | | | |
| Calibration Weight (OIML F1) (OPT) | | 50 g | 50 g | 100 g | 100 g |
| Power Supply | | 120 V AC Adapter, 11 VA | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | |
| UNIT OF MEASURE | Milligram | 110,000.0 x 0.1 mg | 110,000.0 x 0.01 mg | 2,100,000 x 1 mg | 210,000 x 0.1 mg |
| | Ounce | 3.880135 x 0.000005 oz | 3.880135 x 0.000005 oz | 7.40755 x 0.00005 oz | 7.40755 x 0.00005 oz |
| | Troy Ounce | 3.536580 x 0.000005 ozt | 3.536580 x 0.000005 ozt | 6.75165 x 0.00005 ozt | 6.75165 x 0.00005 ozt |
| | Carat | 550.0 x 0.0005 ct | 550.0 x 0.0005 ct | 1,050.0 x 0.005 ct | 1,050.0 x 0.005 ct |
| | Momme | 29.33335 x 0.00005 mom | 29.33335 x 0.00005 mom | 56.0 x 0.0005 mom | 56.0 x 0.0005 mom |
| | Pennyweight | 70.7316 x 0.0001 dwt | 70.7316 x 0.0001 dwt | 135.033 x 0.001 dwt | 135.033 x 0.001 dwt |
| | Grain | 1,697.56. x 0.002 GN | 1,697.56. x 0.002 GN | 3,240.80 x 0.02 GN | 3,240.80 x 0.02 GN |
| | Tael (HK Gen, Singapore) | 2.910100 x 0.000005 TL | 2.910100 x 0.000005 TL | 5.55565 x 0.00005 TL | 5.55565 x 0.00005 TL |
| | Tael (HK jewelry) | 2.938900 x 0.000005 TL | 2.938900 x 0.000005 TL | 5.61060 x 0.00005 TL | 5.61060 x 0.00005 TL |
| | Tael (Taiwan) | 2.933335 x 0.000005 TL | 2.933335 x 0.000005 TL | 5.600 x 0.00005 TL | 5.600 x 0.00005 TL |
| | Tael (China) | 3.520 x 0.00005 TL | 3.520 x 0.00005 TL | 6.7200 x 0.00005 TL | 6.7200 x 0.00005 TL |
| | Tola (India) | 9.43089 x 0.00001 to | 9.43089 x 0.00001 to | 18.0044 x 0.0001 to | 18.0044 x 0.0001 to |
| | Mesghal | 23.46665 x 0.00005 | 23.46665 x 0.00005 | 44.80 x 0.0005 | 44.80 x 0.0005 |



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## Specifications

| | | AD-4212B-301 | | AD-4212A-600 | | AD-4212A-1000 | |
|---|---|---|---|---|---|---|---|
| **Part #** | | **102927** | | **97656** | | **97657** | |
| **List Price** | | **$7,440.00** | | **$5,485.00** | | **$5,690.00** | |
| Capacity | | 310 g | | 610 g | | 1,100 g | |
| **Resolution** | | **0.0001 g** | | **0.001 g** | | | |
| Operating Modes | | Counting, Percentage | | | | | |
| Repeatability (Std. Dev.) | | 0.001 g | | | | | |
| Linearity | | ±0.002 g | | ±0.0003 g | | | |
| Stabilization Time (typical) | | 0-30 g | Approx. 0.8 seconds | 0-30 g | Approx. 0.9 seconds | 0-30 g | Approx. 0.9 sec |
| | | 30-210 g | Approx. 1.0 second | 30-610 g | Approx. 1.1 seconds | 30-1100 g | Approx. 1.1 sec |
| Sensitivity Drift | | ±2 ppm/°C 50°F to 86°F (10°C to 30°C) | | | | | |
| Operating Temperature | | 41°F to 104°F (5°C to 40°C) 85% RH or less (no condensation) | | | | | |
| I/O Interface | RS-232C | Bidirectional 600-19,200 | | | | | |
| | Comparator Output | 3 level output with buzzer | | | | | |
| | External Contact Input | Re-zero and print | | | | | |
| Weighing Unit | Dimensions | (W x D x H) 3.2 x 9.1 x 3.5 in (80 x 230 x 90 mm) | | | | | |
| | **Weighing Pan** | **2 x 2 in (50 x 50 mm)** | | **2.8 x 2.8 in (70 x 70 mm)** | | | |
| | Weight | Approx. 2 kg | | | | | |
| Display Unit | Dimensions | (W x D x H) 237 W x 150 D x 155 mm H | | | | | |
| | Weight | Approx. 2 kg | | | | | |
| Connection Cable | | Approx. 2 m (between weighing unit and display unit) | | | | | |
| Shipping Weight | | 8.5 lb (4 kg) | | | | | |
| Calibration Weight (OIML F1)(OPT) | | 100 g | | 200 g | | | |
| Power Supply | | 120 V AC Adapter, 11 VA | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Milligram | 2,100,000 x 1 mg | | 660,000 x 0.00005 mg | | 1,210,000 x 0.00005 mg | |
| | Ounce | 7.40755 x 0.00005 oz | | 23.28081 x 0.00005 oz | | 42.681485 x 0.00005 oz | |
| | Troy Ounce | 6.75165 x 0.00005 ozt | | 21.21948 x 0.0005 ozt | | 38.90238 x 0.0005 ozt | |
| | Carat | 1050.0 x 0.005 ct | | 3300 x 0.005 ct | | 6050 x 0.005 ct | |
| | Momme | 56.0 x 0.0005 mom | | 176.0001 x 0.0005 mom | | 322.66685 x 0.0005 mom | |
| | Pennyweight | 135.033 x 0.001 dwt | | 424.3896 x 0.001 dwt | | 778.0476 x 0.001 dwt | |
| | Grain | 3,240.80 x 0.02 GN | | 10,185.36 x 0.02 GN | | 18,673.16 x 0.02 GN | |
| | Tael (HK Gen, Singapore) | 5.55565 x 0.00005 TL | | 17.4606 x 0.00005 TL | | 32.0111 x 0.00005 TL | |
| | Tael (HK jewelry) | 5.61060 x 0.00005 TL | | 17.6334 x 0.00005 TL | | 32.3279 x 0.00005 TL | |
| | Tael (Taiwan) | 5.600 x 0.00005 TL | | 17.60001 x 0.00005 TL | | 32.266685 x 0.00005 TL | |
| | Tael (China) | 6.7200 x 0.00005 TL | | 21.12 x 0.00005 TL | | 38.72 x 0.00005 TL | |
| | Tola (India) | 18.0044 x 0.0001 to | | 56.58534 x 0.0001 to | | 103.73979 x 0.0001 to | |
| | Mesghal | 44.80 x 0.0005 | | 140.7999 x 0.0005 | | 258.13315 x 0.0005 | |

## Part Number/Price

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97654** | AD-4212A-100 | 110 g x 0.0001 g | $5,660.00 |
| **102925** | AD-4212B-102 | 110 g x 0.00001 g | $8,750.00 |
| **97655** | AD-4212A-200 | 210 g x 0.001 g | $4,970.00 |
| **102926** | AD-4212B-201 | 210 g x 0.0001 g | $6,695.00 |
| **102927** | AD-4212B-301 | 210 g x 0.0001 g | $7,440.00 |
| **97656** | AD-4212A-600 | 610 g x 0.001 g | $5,485.00 |
| **97657** | AD-4212A-1000 | 1,100 g x 0.001 g | $5,690.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97672** | AD-4212A-01 | BCD output (factory installed, four month lead time) | $577.00 |
| **97674** | AD-4212A-07 | Extension cable, 3 m | $164.00 |
| **97675** | AD-4212A-08 | Ethernet Interface with WinCT© | $788.00 |
| **97676** | AD-4212A-19 | Stainless steel breeze break (200 g only) | $106.00 |





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A&D WEIGHING

# Apollo GX Series

## Analytical and Toploader Balances

Capacity: 220 g-10,200 g  Readability: 0.001 g-0.1 g




## Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- Internal calibration weight
- Impact shock detection
- Flow rate display
- RS-232C and USB bidirectional interface
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Counting, Percentage, Animal Weighing, Density, Statistical and Comparator Modes
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underhook weighing

## Specifications

| | | GX-124A^ | GX-124AE^* | GX-203A^ | GX-224A^ | GX-224AE^* | GX-303A^ |
|---|---|---|---|---|---|---|---|
| **Part #** | | **200330** | **200334** | **191691** | **200332** | **200335** | **191692** |
| **List Price** | | **$3,065.00** | **$4,565.00** | **$1,675.00** | **$3,375.00** | **$4,875.00** | **$1,875.00** |
| Capacity | | 120 g | | 220 g | | | 320 g |
| **Resolution** | | **0.0001 g** | | **0.001 g** | **0.0001 g** | | **0.001 g** |
| Operating Modes | | Animal Weighing, Comparator Function, ACAI Counting, Percentage, Density Determination, Statistical Calculation | | | | | |
| Repeatability | | 0.0001 g | | 0.001 g | 0.0001 g | | 0.001 g |
| Linearity | | ±0.0002 g | | ±0.002 g | ±0.0002 g | | ±0.002 g |
| Stabilization Time | | Approx. 1.5 sec. | Approx. 2 sec. | Approx. 1 sec. | | | |
| Display Refresh | | 5 times per second/10 times per second/20 times per second | | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) RH less than 85% (no condensation) | | | | | |
| **Pan Size** | | **Ø90 mm** | | **5 x 5 in (128 x 128 mm)** | **Ø90 mm** | | **5 x 5 in (128 x 128 mm)** |
| Dimensions | | (W x D x H) 10.2 x 14.1 x 13.1 in (259 x 358 x 332 mm) Including Large Glass Breeze Break | | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) | (W x D x H) 10.2 x 14.1 x 13.1 in (259 x 358 x 332 mm) Including Large Glass Breeze Break | | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) |
| Weighing Chamber | | 8.78 in H (223 mm H) | | 3 in H (85 mm H) | 8.78 in H (223 mm H) | | 3 in H (85 mm H) |
| Ionizer (fanless) | | - | Built-in, with external touchless sensor | - | | Built-in, with external touchless sensor | - |
| Est. Ship Weight | | 18 lb (8 kg) | | 11 lb (5 kg) | 18 lb (8 kg) | | 11 lb (5 kg) |
| Power | | 120 VAC adapter, Approx. 30 VA | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Gram | 120 x 0.0001 g | 120 x 0.0001 g | 220 x 0.001 g | 220 x 0.0001 g | 220 x 0.0001 g | 320 g x 0.001 g |
| | Ounce (Avoir) | 4.23 x 0.000005 g | 4.23 x 0.000005 g | 7.76 x 0.00005 g | 7.76 x 0.000005 g | 7.76 x 0.000005 g | 11.29 x 0.00005 g |
| | Pound | 0.265 x 0.0000005 g | 0.265 x 0.0000005 g | 0.485 x 0.000005 g | 0.485 x 0.0000005 g | 0.485 x 0.0000005 g | 0.705 x 0.000005 g |
| | Pound/Ounce | 0 lb 4.24 oz x 0.01 oz | 0 lb 4.24 oz x 0.01 oz | 0 lb 7.76 oz x 0.01 oz | 0 lb 7.76 oz x 0.01 oz | 0 lb 7.76 oz x 0.01 oz | 0 lb 11.29 oz x 0.01 oz |
| | Troy Ounce | 3.86 x 0.000005 g | 3.86 x 0.000005 g | 7.07 x 0.00005 g | 7.07 x 0.000005 g | 7.07 x 0.000005 g | 10.29 x 0.00005 g |
| | Metric Carat | 600 x 0.0005 g | 600 x 0.0005 g | 1100 x 0.005 g | 1100 x 0.0005 g | 1100 x 0.0005 g | 1600 x 0.005 g |
| | Momme | 31.75 x 0.00005 g | 31.75 x 0.00005 g | 58.6 x 0.0005 g | 58.6 x 0.00005 g | 58.6 x 0.00005 g | 84.7 x 0.0005 g |
| | Pennyweight | 77 x 0.0001 g | 77 x 0.0001 g | 141 x 0.001 g | 141 x 0.0001 g | 141 x 0.0001 g | 206 x 0.001 g |
| | Grain (UK) | 1852 x 0.002 g | 1852 x 0.002 g | 3395 x 0.02 g | 3395 x 0.002 g | 3395 x 0.002 g | 4938 x 0.02 g |
| | Tael (HK general, Singapore) | 3.17 x 0.000005 g | 3.17 x 0.000005 g | 5.82 x 0.00005 g | 5.82 x 0.000005 g | 5.82 x 0.000005 g | 8.47 x 0.00005 g |
| | Tael (HK jewelry) | | | 5.87 x 0.00005 g | 5.87 x 0.000005 g | 5.87 x 0.000005 g | 8.54 x 0.00005 g |
| | Tael (Taiwan) | | | 5.86 x 0.00005 g | 5.86 x 0.000005 g | 5.86 x 0.000005 g | 8.53 x 0.00005 g |
| | Tael (China) | | | 7.04 x 0.00005 g | 7.04 x 0.000005 g | 7.04 x 0.000005 g | 10.24 x 0.00005 g |
| | Tola (India) | 10.29 x 0.00001 g | 10.29 x 0.00001 g | 18.8 x 0.0001 g | 18.8 x 0.00001 g | 18.8 x 0.00001 g | 27.4 x 0.0001 g |
| | Mesghal | 26.04 x 0.00005 g | 26.04 x 0.00005 g | 46.9 x 0.0005 g | 46.9 x 0.00005 g | 46.9 x 0.00005 g | 69.6 x 0.0005 g |

*^ Weighing Chamber*

**AE versions come standard with built-in fanless ionizer with external touchless sensor.*



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## Specifications

| | | GX-324A^ | GX-324AE^* | GX-403A^ | GX-603A^ | GX-1003A^ | GX-2002A |
|---|---|---|---|---|---|---|---|
| **Part #** | | **200333** | **200336** | **191693** | **191694** | **191695** | **191697** |
| **List Price** | | **$3,875.00** | **$5,375.00** | **$1,989.00** | **$2,595.00** | **$3,203.00** | **$1,942.00** |
| Capacity | | 320 g | | 420 g | 620 g | 1,100 g | 2,200 g |
| **Resolution** | | **0.0001 g** | | **0.001 g** | **0.001 g** | **0.001 g** | **0.01 g** |
| Operating Modes | | Animal Weighing, Comparator Function, ACAI Counting, Percentage, Density Determination, Statistical Calculation | | | | | |
| Repeatability | | 0.0002 g (300 g)<br>0.0001 g (200 g) | | 0.001 g | | | 0.01 g |
| Linearity | | ±0.0003 g | | ±0.002 g | | ±0.003 g | ±0.02 g |
| Stabilization Time | | Approx. 2 sec. | | Approx. 1 sec. | | | |
| Display Refresh | | 5 times per second/10 times per second/20 times per second | | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) RH less than 85% (no condensation) | | | | | |
| **Pan Size** | | **Ø90 mm** | | **5 x 5 in (128 x 128 mm)** | | | |
| Dimensions | | (W x D x H) 10.2 x 14.1 x 13.1 in (259 x 358 x 332 mm) Including Large Glass Breeze Break | | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) | | | |
| Weighing Chamber | | 8.78 in H (223 mm H) | | 3 in H (85 mm H) | | | |
| Ionizer (fanless) | | - | Built-in, with external touchless sensor | - | | | |
| Est. Ship Weight | | 18 lb (8 kg) | | 11 lb (5 kg) | | | |
| Power | | 120 VAC adapter, Approx. 30 VA | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Gram | 320 x 0.0001 g | 320 x 0.0001 g | 420 x 0.001 g | 620 x 0.001 g | 1100 x 0.001 g | 2200 x 0.01 g |
| | Ounce (Avoir) | 11.29 x 0.000005 g | 11.29 x 0.000005 g | 14.81 x 0.00005 g | 21.86 x 0.00005 g | 38.80 x 0.00005 g | 77.6 x 0.0005 g |
| | Pound | 0.705 x 0.0000005 g | 0.705 x 0.0000005 g | 0.925 x 0.000005 g | 1.366 x 0.000005 g | 2.425 x 0.000005 g | 4.85 x 0.00005 g |
| | Pound/Ounce | 0 lb 11.29 oz x 0.01 oz | 0 lb 11.29 oz x 0.01 oz | 0 lb 14.81 oz x 0.01 oz | 1 lb 5.86 oz x 0.01 oz | 2 lb 6.80 oz x 0.01 oz | 4 lb 13.60 oz x 0.01 oz |
| | Troy Ounce | 10.29 x 0.000005 g | 10.29 x 0.000005 g | 13.50 x 0.00005 g | 19.93 x 0.00005 g | 35.36 x 0.00005 g | 70.7 x 0.0005 g |
| | Metric Carat | 1600 x 0.0005 g | 1600 x 0.0005 g | 2100 x 0.005 g | 3100 x 0.005 g | 5500 x 0.005 g | 11000 x 0.05 g |
| | Momme | 84.7 x 0.00005 g | 84.7 x 0.00005 g | 112.0 x 0.0005 g | 165.3 x 0.0005 g | 293.3 x 0.0005 g | 586 x 0.005 g |
| | Pennyweight | 206 x 0.0001 g | 206 x 0.0001 g | 270 x 0.001 g | 398 x 0.001 g | 707 x 0.001 g | 1414 x 0.01 g |
| | Grain (UK) | 4938 x 0.002 g | 4938 x 0.002 g | 6481 x 0.02 g | 9568 x 0.02 g | 16975 x 0.02 g | 33951 x 0.2 g |
| | Tael (HK general, Singapore) | 8.47 x 0.000005 g | 8.47 x 0.000005 g | 11.11 x 0.00005 g | 16.40 x 0.00005 g | 29.10 x 0.00005 g | 58.2 x 0.0005 g |
| | Tael (HK jewelry) | 8.54 x 0.000005 g | 8.54 x 0.000005 g | 11.22 x 0.00005 g | 16.56 x 0.00005 g | 29.38 x 0.00005 g | 58.7 x 0.0005 g |
| | Tael (Taiwan) | 8.53 x 0.000005 g | 8.53 x 0.000005 g | 11.20 x 0.00005 g | 16.53 x 0.00005 g | 29.33 x 0.00005 g | 58.6 x 0.0005 g |
| | Tael (China) | 10.24 x 0.000005 g | 10.24 x 0.000005 g | 13.44 x 0.00005 g | 19.84 x 0.00005 g | 35.20 x 0.00005 g | 70.4 x 0.0005 g |
| | Tola (India) | 27.4 x 0.00001 g | 27.4 x 0.00001 g | 36.0 x 0.0001 g | 53.1 x 0.0001 g | 94.3 x 0.0001 g | 188 x 0.001 g |
| | Mesghal | 69.6 x 0.00005 g | 69.6 x 0.00005 g | 89.6 x 0.0005 g | 132.2 x 0.0005 g | 234.6 x 0.0005 g | 769 x 0.005 g |

*^ Weighing Chamber*

**AE versions come standard with built-in fanless ionizer with external touchless sensor.*





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# Apollo GX Series

Analytical and Toploader Balances

## Specifications

| | | GX-4002A | GX-6001A | GX-6002A | GX-10001A | GX-10002A |
|---|---|---|---|---|---|---|
| **Part #** | | **191701** | **191705** | **191702** | **191706** | **191704** |
| **List Price** | | **$2,335.00** | **$1,999.00** | **$2,925.00** | **$2,985.00** | **$3,600.00** |
| Capacity | | 4,200 g | 6,200 g | 6,200 g | 10,200 g | 10,200 g |
| **Resolution** | | **0.01 g** | **0.1 g** | **0.01 g** | **0.1 g** | **0.01 g** |
| Operating Modes | | Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation | | | | |
| Repeatability | | 0.01 g | 0.1 g | 0.01 g | 0.1 g | 0.02 g |
| Linearity | | ±0.02 g | ±0.01 g | ±0.03 g | ±0.01 g | ±0.03 g |
| Stabilization Time | | Approx. 1 sec. | | | | Approx. 1.5 sec. |
| Display Refresh | | 5 times per second/10 times per second/20 times per second | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) RH less than 85% (no condensation) | | | | |
| **Pan Size** | | **5 x 5 in (128 x 128 mm)** | | | | **6.5 x 6.5 in (165 mm x 165 mm)** |
| Dimensions | | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) | | | | |
| Weighing Chamber | | 3 in H (85 mm H) | | | | |
| Ionizer (fanless) | | - | - | - | - | - |
| Est. Ship Weight | | 11 lb (5 kg) | | | | |
| Power | | 120/240 VAC adapter, Approx. 30 VA | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | |
| UNIT OF MEASURE | Gram | 4200 x 0.01 g | 6200 x 0.1 g | 6200 x 0.01 g | 10200 x 0.1 g | 10,200 x0.01 g |
| | Ounce (Avoir) | 148.1 x 0.0005 g | 218 x 0.005 g | 218.6 x 0.0005 g | 359 x 0.005 g | 359.7 x 0.0005 g |
| | Pound | 9.25 x 0.00005 g | 13.6 x 0.0005 g | 13.66 x 0.00005 g | 22.4 x 0.0005 g | 22.48 x 0.00005 g |
| | Pound/Ounce | 9 lb 4.15 oz x 0.01 oz | 13 lb 10.69 oz x 0.01 oz | 13 lb 10.69 oz x 0.01 oz | 22 lb 7.79 oz x 0.01 oz | 22 lb 7.79 oz x 0.01 oz |
| | Troy Ounce | 135.0 x 0.0005 g | 199 x 0.005 g | 199.3 x 0.0005 g | 327 x 0.005 g | 327.9 x 0.0005 g |
| | Metric Carat | 21000 x 0.05 g | 31000 x 0.5 g | 31000 x 0.05 g | 51000 x 0.5 g | 51000 x 0.05 g |
| | Momme | 1120 x 0.005 g | 1653 x 0.05 g | 1653 x 0.005 g | 2720 x 0.05 g | 2720 x 0.005 g |
| | Pennyweight | 2700 x 0.01 g | 3986 x 0.1 g | 3986 x 0.01 g | 6558 x 0.1 g | 6558 x 0.01 g |
| | Grain (UK) | 64815 x 0.2 g | 95680 x 2 g | 95680 x 0.2 g | 157410 x 2 g | 157410 x 0.2 g |
| | Tael (HK general, Singapore) | 111.1 x 0.0005 g | 164.0 x 0.005 g | 164.0 x 0.0005 g | 269.0 x 0.005 g | 269.8 x 0.0005 g |
| | Tael (HK jewelry) | 112.2 x 0.0005 g | 165.0 x 0.00005 g | 165.6 x 0.0005 g | 272.0 x 0.005 g | 272.5 x 0.0005 g |
| | Tael (Taiwan) | 112.0 x 0.0005 g | 165.0 x 0.005 g | 165.3 x 0.0005 g | 272.0 x 0.005 g | 272.0 x 0.0005 g |
| | Tael (China) | 134.4 x 0.0005 g | 198.0 x 0.005 g | 198.4 x 0.0005 g | 326.0 x 0.005 g | 326.4 x 0.0005 g |
| | Tola (India) | 360 x 0.001 g | 531.0 x 0.01 g | 531 x 0.001 g | 874.0 x 0.01 g | 874 x 0.001 g |
| | Mesghal | 896 x 0.005 g | 1322 x 0.05 g | 1322 x 0.005 g | 2176 x 0.05 g | 2176 x 0.005 g |





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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **200330** | GX-124A^ | 120 g x 0.0001 g | $3,065.00 |
| **200334** | GX-124AE^* | 120 g x 0.0001 g | $4,565.00 |
| **191691** | GX-203A | 220 g x 0.001 g | $1,675.00 |
| **200332** | GX-224A^ | 220 g x 0.0001 g | $3,375.00 |
| **200335** | GX-224AE^* | 220 g x 0.0001 g | $4,875.00 |
| **191692** | GX-303A | 320 g x 0.001 g | $1,875.00 |
| **200333** | GX-324A^ | 320 g x 0.0001 g | $3,875.00 |
| **200336** | GX-324AE^* | 320 g x 0.0001 g | $5,375.00 |
| **191693** | GX-403A | 420 g x 0.001 g | $1,989.00 |
| **191694** | GX-603A | 620 g x 0.001 g | $2,595.00 |
| **191695** | GX-1003A | 1,100 g x 0.001 g | $3,203.00 |
| **191697** | GX-2002A | 2,200 g x 0.01 g | $1,942.00 |
| **191701** | GX-4002A | 4,200 g x 0.01 g | $2,335.00 |
| **191705** | GX-6001A | 6,200 g x 0.1 g | $1,999.00 |
| **191702** | GX-6002A | 6,200 g x 0.01 g | $2,925.00 |
| **191706** | GX-10001A | 10,200 g x 0.1 g | $2,985.00 |
| **191704** | GX-10002A | 10,200 g x 0.01 g | $3,600.00 |

**AE versions come standard with built-in fanless ionizer with external touchless sensor.*

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **192662** | GXA-03 | RS-232C Interface (D-sub 9P male) | $230.00 |
| **192663** | GXA-04 | Comparator output (requires 192667) | $220.00 |
| **192667** | AX-K05692 | MiniDIN 8 pin male for GXA-04 | $45.00 |
| **192671** | GXA-06 | Analog output (includes 192673) | $220.00 |
| **192673** | AX-K05693 | MiniDIN 4 pin male for GXA-06 | $45.00 |
| **192674** | GXA-09 | Internal rechargeable battery (must be factory installed) | $459.00 |
| **192675** | GXA-10 | Large glass breeze break | $321.00 |
| **192676** | GXA-12 | Animal weighing pan (for models of 320 g capacity or higher) | $139.00 |
| **192677** | GXA-13 | Density determination kit (for 1 mg models only) | $503.00 |
| **192678** | GXA-17 | Large breeze break with built-in fanless ionizer (static eliminator) | $925.00 |
| **192679** | GXA-23-PRINT | External key input interface for SW:137-PRINT foot switch | $210.00 |
| **192680** | GXA-23-RZERO | External key input interface for SW:137-REZERo foot switch | $210.00 |
| **192681** | GXA-23-PLUG | External key input interface for AX-T-314A-S plug | $203.00 |
| **192682** | GXA-24 | USB host interface (USB A type) | $108.00 |
| **192683** | GXA-25 | External fanless ionizer (static eliminator) | $811.00 |
| **192684** | GXA-26 | External IR switch (MiniDIN 4 pin male) | $171.00 |





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# Apollo GF Series

## Analytical and Toploader Balances

Capacity: 220 g-8100 g  Readability: 0.001 g-0.1 g




## Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- External calibration
- Impact shock detection
- Flow rate display
- RS-232C and USB bidirectional interface
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Counting, Percentage, Animal Weighing, Density, Statistical and Comparator Modes
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underhook weighing

## Specifications

| | | GF-124A^ | GF-203A^ | GF-224A^ | GF-303A^ | GF-324A^ | GF-403A^ |
|---|---|---|---|---|---|---|---|
| **Part #** | | **200327** | **191707** | **200328** | **191708** | **200329** | **191709** |
| **List Price** | | **$2,525.00** | **$1,375.00** | **$2,750.00** | **$1,525.00** | **$3,560.00** | **$1,675.00** |
| Capacity | | 120 g | 220 g | 220 g | 320 g | 320 g | 420 g |
| **Resolution** | | **0.0001 g** | **0.001 g** | **0.0001 g** | **0.001 g** | **0.0001 g** | **0.001 g** |
| Operating Modes | | Animal Weighing, Comparator Function, ACAI Counting, Percentage, Density Determination, Statistical Calculation | | | | | |
| Repeatability | | 0.0001 g | 0.001 g | 0.0001 g | 0.001 g | 0.0002 g (300 g)<br>0.0001 g (200 g) | 0.001 g |
| Linearity | | ±0.0002 g | ±0.002 g | ±0.0002 g | ±0.002 g | ±0.0003 g | ±0.003 g |
| Stabilization Time | | Approx. 1.5 sec. | Approx. 1 sec. | Approx. 2 sec. | Approx. 1 sec. | Approx. 2 sec. | Approx. 1.0 sec. |
| Display Refresh | | 5 times per second/10 times per second/20 times per second | | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) RH less than 85% (no condensation) | | | | | |
| Weighing Chamber | | 8.78 in H (223 mm H) | 3 in H (85 mm H) | 8.78 in H (223 mm H) | 3 in H (85 mm H) | 8.78 in H (223 mm H) | 3 in H (85 mm H) |
| **Pan Size** | | **Ø90 mm** | **5 x 5 in (128 x 128 mm)** | **Ø90 mm** | **5 x 5 in (128 x 128 mm)** | **Ø90 mm** | **5 x 5 in (128 x 128 mm)** |
| Dimensions | | (W x D x H) 10.2 x 14.1 x 13.1 in (259 x 358 x 332 mm) Including Large Glass Breeze Break | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) | (W x D x H) 10.2 x 14.1 x 13.1 in (259 x 358 x 332 mm) Including Large Glass Breeze Break | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) | (W x D x H) 10.2 x 14.1 x 13.1 in (259 x 358 x 332 mm) Including Large Glass Breeze Break | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) |
| Est. Ship Weight | | 18 lb (8 kg) | 11 lb (5 kg) | 18 lb (8 kg) | 11 lb (5 kg) | 18 lb (8 kg) | 11 lb (5 kg) |
| Power | | 120 VAC adapter, Approx. 30 VA | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Gram | 120 x 0.0001 g | 220 x 0.001 g | 220 x 0.0001 g | 320 x 0.001 g | 320 x 0.0001 g | 420 x 0.001 g |
| | Ounce (Avoir) | 4.23 x 0.000005 g | 7.76 x 0.00005 g | 7.76 x 0.000005 g | 11.28 x 0.00005 g | 11.29 x 0.000005 g | 14.81 x 0.00005 g |
| | Pound | 0.265 x 0.0000005 g | 0.485 x 0.000005 g | 0.485 x 0.0000005 g | 0.705 x 0.000005 g | 0.705 x 0.0000005 g | 0.925 x 0.000005 g |
| | Pound/Ounce | 0 lb 4.24 oz x 0.01 oz | 0 lb 7.76 oz x 0.01 oz | 0 lb 7.76 oz x 0.01 oz | 0 lb 11.28 oz x 0.01 oz | 0 lb 11.29 oz x 0.01 oz | 0 lb 14.81 oz x 0.01 oz |
| | Troy Ounce | 3.86 x 0.000005 g | 7.07 x 0.00005 g | 7.07 x 0.000005 g | 10.28 x 0.00005 g | 10.29 x 0.000005 g | 13.50 x 0.00005 g |
| | Metric Carat | 600 x 0.0005 g | 1100 x 0.005 g | 1100 x 0.0005 g | 1600 x 0.005 g | 1600 x 0.0005 g | 2100 x 0.005 g |
| | Momme | 31.75 x 0.00005 g | 58.6 x 0.0005 g | 58.6 x 0.00005 g | 85.3 x 0.0005 g | 84.7 x 0.00005 g | 112.0 x 0.0005 g |
| | Pennyweight | 77 x 0.0001 g | 141 x 0.001 g | 141 x 0.0001 g | 205 x 0.001 g | 206 x 0.0001 g | 270 x 0.001 g |
| | Grain (UK) | 1852 x 0.002 g | 3395 x 0.02 g | 3395 x 0.002 g | 4938 x 0.02 g | 4938 x 0.002 g | 6481 x 0.02 g |
| | Tael (HK general, Singapore) | 3.17 x 0.000005 g | 5.82 x 0.00005 g | 5.82 x 0.000005 g | 8.46 x 0.00005 g | 8.47 x 0.000005 g | 11.11 x 0.00005 g |
| | Tael (HK jewelry) | | 5.87 x 0.00005 g | 5.87 x 0.000005 g | 8.54 x 0.00005 g | 8.54 x 0.000005 g | 11.22 x 0.00005 g |
| | Tael (Taiwan) | | 5.86 x 0.00005 g | 5.86 x 0.000005 g | 8.53 x 0.00005 g | 8.53 x 0.000005 g | 11.20 x 0.00005 g |
| | Tael (China) | | 7.04 x 0.00005 g | 7.04 x 0.000005 g | 10.24 x 0.00005 g | 10.24 x 0.000005 g | 13.44 x 0.00005 g |
| | Tola (India) | 10.29 x 0.00001 g | 18.8 x 0.0001 g | 18.8 x 0.00001 g | 27.4 x 0.0001 g | 27.4 x 0.00001 g | 36.0 x 0.0001 g |
| | Mesghal | 26.04 x 0.00005 g | 46.9 x 0.0005 g | 46.9 x 0.00005 g | 68.2 x 0.0005 g | 69.6 x 0.00005 g | 89.6 x 0.0005 g |

*^ Weighing Chamber*





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## Specifications

| | | GF-603A^ | GF-1003A^ | GF-1603A^ | GF-1202A | GF-2002A | GF-3002A |
|---|---|---|---|---|---|---|---|
| **Part#** | | **191710** | **191711** | **191712** | **191713** | **191714** | **191715** |
| **List Price** | | **$1,975.00** | **$2,375.00** | **$3,054.90** | **$1,375.00** | **$1,425.00** | **$1,475.00** |
| Capacity | | 620 g | 1,100 g | 1,620 g | 1,220 g | 2,200 g | 3,200 g |
| **Resolution** | | **0.001 g** | **0.001 g** | **0.001 g** | **0.01 g** | **0.01 g** | **0.01 g** |
| Operating Modes | | Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation | | | | | |
| Repeatability | | 0.001 g | | 0.002 g | 0.01 g | | |
| Linearity | | ±0.03 g | | | ±0.02 g | | |
| Stabilization Time | | Approx. 1 sec. | Approx. 1.5 sec. | | Approx. 1 sec. | | |
| Display Refresh | | 5 times per second/10 times per second/20 times per second | | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) RH less than 85% (no condensation) | | | | | |
| Weighing Chamber | | 3 in H (85 mm H) | | | - | | |
| **Pan Size** | | **5 x 5 in (128 x 128 mm)** | | | **165 x 165 mm (6.5 x 6.5 in)** | **5 x 5 in (128 x 128 mm)** | |
| Dimensions | | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) | | | | | |
| Est. Ship Weight | | 11 lb (5 kg) | | | | | |
| Power | | 120 VAC adapter, Approx. 30 VA | | | | 120/240 VAC adapter, Approx. 30 VA | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Gram | 620 x 0.001 g | 1100 x 0.001 g | 1620 x 0.001 g | 1220 x .01 g | 2200 x 0.01 g | 3200 x 0.01 g |
| | Ounce (Avoir) | 21.86 x 0.00005 g | 38.80 x 0.00005 g | 57.14 x 0.00005 g | 43.0 x 0.0005 g | 77.6 x 0.0005 g | 112.8 x 0.0005 g |
| | Pound | 1.366 x 0.000005 g | 2.425 x 0.000005 g | 3.571 x 0.000005 g | 2.68 x 0.00005 g | 4.85 x 0.00005 g | 7.05 x 0.00005 g |
| | Pound/Ounce | 1 lb 5.86 oz x 0.01 oz | 2 lb 6.80 oz x 0.01 oz | 3 lb 9.14 oz x 0.01 oz | 2 lb 11.03 oz x 0.01 oz | 4 lb 13.60 oz x 0.01 oz | 7 lb 0.87 oz x 0.01 oz |
| | Troy Ounce | 19.93 x 0.00005 g | 35.36 x 0.00005 g | 52.08 x 0.00005 g | 39.2 x 0.0005 g | 70.7 x 0.0005 g | 102.8 x 0.0005 g |
| | Metric Carat | 3100 x 0.005 g | 5500 x 0.005 g | 8100 x 0.005 g | 6100 x 0.05 g | 11000 x 0.05 g | 16000 x 0.05 g |
| | Momme | 165.3 x 0.0005 g | 293.3 x 0.0005 g | 432.0 x 0.0005 g | 325 x 0.005 g | 586 x 0.005 g | 853 x 0.005 g |
| | Pennyweight | 398 x 0.001 g | 707 x 0.001 g | 1041 x 0.001 g | 784 x 0.01 g | 1414 x 0.01 g | 2057 x 0.01 g |
| | Grain (UK) | 9568 x 0.02 g | 16975 x 0.02 g | 25000 x 0.02 g | 18827 x 0.2 g | 33951 x 0.2 g | 49383 x 0.2 g |
| | Tael (HK general, Singapore) | 16.40 x 0.00005 g | 29.10 x 0.00005 g | 42.85 x 0.00005 g | 32.2 x 0.0005 g | 58.2 x 0.0005 g | 84.6 x 0.0005 g |
| | Tael (HK jewelry) | 16.56 x 0.00005 g | 29.38 x 0.00005 g | 43.28 x 0.00005 g | 32.5 x 0.0005 g | 58.7 x 0.0005 g | 85.4 x 0.0005 g |
| | Tael (Taiwan) | 16.53 x 0.00005 g | 29.33 x 0.00005 g | 43.20 x 0.00005 g | 32.5 x 0.0005 g | 58.6 x 0.0005 g | 85.3 x 0.0005 g |
| | Tael (China) | 19.84 x 0.00005 g | 35.20 x 0.00005 g | 51.84 x 0.00005 g | 39.0 x 0.0005 g | 70.4 x 0.0005 g | 102.4 x 0.0005 g |
| | Tola (India) | 53.1 x 0.0001 g | 94.3 x 0.0001 g | 138.8 x 0.0001 g | 104 x 0.001 g | 188 x 0.001 g | 274 x 0.001 g |
| | Mesghal | 132.2 x 0.0005 g | 234.6 x 0.0005 g | 345.6 x 0.0005 g | 260 x 0.005 g | 769 x 0.005 g | 682 x 0.005 g |

*^ Weighing Chamber*





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# Apollo GF Series

Analytical and Toploader Balances

## Specifications

| | | GF-4002A | GF-6002A | GF-6001A | GF-10001A | GF-10002A |
|---|---|---|---|---|---|---|
| **Part #** | | **191716** | **191717** | **192486** | **192487** | **191718** |
| **List Price** | | **$1,899.00** | **$2,310.00** | **$1,575.00** | **$1,645.00** | **$2,850.00** |
| Capacity | | 4,200 g | 6,200 g | 6,200 g | 10,200 g | 10,200 g |
| **Resolution** | | **0.01 g** | **0.01 g** | **0.1 g** | **0.1 g** | **0.01 g** |
| Operating Modes | | Animal Weighing, Comparator Function, ACAI Counting Function, Percentage, Density Determination, Statistical Calculation | | | | |
| Repeatability | | 0.01 g | | 0.1 g | | 0.1 g |
| Linearity | | ±0.02 g | ±0.03 g | ±0.1 g | | ±0.03 g |
| Stabilization Time | | Approx. 1 sec. | | | | Approx. 1.5 sec. |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) | | | | |
| Weighing Chamber | | - | | | | |
| **Pan Size** | | **5 x 5 in (128 x 128 mm)** | | | | **6.5 x 6.5 in (165 mm x 165 mm)** |
| Dimensions | | (W x D x H) 8.3 x 12.5 x 3.7 in (212 x 317 x 93 mm) | | | | |
| Est. Ship Weight | | 11 lb (5 kg) | | | | |
| Power | | 120/240 VAC adapter, Approx. 30 VA | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | |
| UNIT OF MEASURE | Gram | 4200 x 0.01 g | 6200 x 0.01 g | 6200 x 0.1 g | 10200 x 0.1 g | 10,200 x0.01 g |
| | Ounce (Avoir) | 148.1 x 0.0005 g | 218.6 x 0.0005 g | 218 x 0.005 g | 359 x 0.005 g | 359.7 x 0.0005 g |
| | Pound | 9.25 x 0.00005 g | 13.66 x 0.00005 g | 13.6 x 0.0005 g | 22.4 x 0.0005 g | 22.48 x 0.00005 g |
| | Pound/Ounce | 9 lb 4.15 oz x 0.01 oz | 13 lb 10.69 oz x 0.01 oz | 13 lb 10.69 oz x 0.01 oz | 22 lb 7.79 oz x 0.01 oz | 22 lb 7.79 oz x 0.01 oz |
| | Troy Ounce | 135.0 x 0.0005 g | 199.3 x 0.0005 g | 199 x 0.005 g | 327 x 0.005 g | 327.9 x 0.0005 g |
| | Metric Carat | 21000 x 0.05 g | 31000 x 0.05 g | 31000 x 0.5 g | 51000 x 0.5 g | 51000 x 0.05 g |
| | Momme | 1120 x 0.005 g | 1653 x 0.005 g | 1653 x 0.05 g | 2720 x 0.05 g | 2720 x 0.005 g |
| | Pennyweight | 2700 x 0.01 g | 3986 x 0.01 g | 3986 x 0.1 g | 6558 x 0.1 g | 6558 x 0.01 g |
| | Grain (UK) | 64815 x 0.2 g | 95680 x 0.2 g | 95680 x 2 g | 157410 x 2 g | 157410 x 0.2 g |
| | Tael (HK general, Singapore) | 111.1 x 0.0005 g | 164.0 x 0.0005 g | 164.0 x 0.005 g | 269.0 x 0.005 g | 269.8 x 0.0005 g |
| | Tael (HK jewelry) | 112.2 x 0.0005 g | 165.6 x 0.0005 g | 165.0 x 0.00005 g | 272.0 x 0.005 g | 272.5 x 0.0005 g |
| | Tael (Taiwan) | 112.0 x 0.0005 g | 165.3 x 0.0005 g | 165.0 x 0.005 g | 272.0 x 0.005 g | 272.0 x 0.0005 g |
| | Tael (China) | 134.4 x 0.0005 g | 198.4 x 0.0005 g | 198.0 x 0.005 g | 326.0 x 0.005 g | 326.4 x 0.0005 g |
| | Tola (India) | 360 x 0.001 g | 531 x 0.001 g | 531.0 x 0.01 g | 874.0 x 0.01 g | 874 x 0.001 g |
| | Mesghal | 896 x 0.005 g | 1322 x 0.005 g | 1322 x 0.05 g | 2176 x 0.05 g | 2176 x 0.005 g |





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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **200327** | GF-124A^ | 120 g x 0.0001 g | $2,525.00 |
| **191707** | GF-203A | 220 g x 0.001 g | $1,375.00 |
| **200328** | GF-224A^ | 220 g x 0.0001 g | $2,750.00 |
| **191708** | GF-303A | 320 g x 0.001 g | $1,525.00 |
| **200329** | GF-324A^ | 320 g x 0.0001 g | $3,560.00 |
| **191709** | GF-403A | 420 g x 0.001 g | $1,675.00 |
| **191710** | GF-603A | 620 g x 0.001 g | $1,975.00 |
| **191711** | GF-1003A | 1,100 g x 0.001 g | $2,375.00 |
| **191712** | GF-1603A | 1,620 g x 0.001 g | $3,054.90 |
| **191713** | GF-1202A | 1,220 g x 0.01 g | $1,375.00 |
| **191714** | GF-2002A | 2,200 g x 0.01 g | $1,425.00 |
| **191715** | GF-3002A | 3,200 g x 0.01 g | $1,475.00 |
| **191716** | GF-4002A | 4,200 g x 0.01 g | $1,899.00 |
| **191717** | GF-6002A | 6,200 g x 0.01 g | $2,310.00 |
| **192486** | GF-6001A | 6,200 g x 0.1 g | $1,575.00 |
| **192487** | GF-10001A | 10,200 g x 0.1 g | $1,645.00 |
| **191718** | GF-10002A | 10,200 g x 0.01 g | $2,850.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **192662** | GXA-03 | RS-232C Interface (D-sub 9P male) | $230.00 |
| **192663** | GXA-04 | Comparator output (requires 192667) | $220.00 |
| **192667** | AX-K05692 | MiniDIN 8 pin male for GXA-04 | $45.00 |
| **192671** | GXA-06 | Analog output (includes 192673) | $220.00 |
| **192673** | AX-K05693 | MiniDIN 4 pin male for GXA-06 | $45.00 |
| **192674** | GXA-09 | Internal rechargeable battery (must be factory installed) | $459.00 |
| **192675** | GXA-10 | Large glass breeze break | $321.00 |
| **192676** | GXA-12 | Animal weighing pan (for models of 320 g capacity or higher) | $139.00 |
| **192677** | GXA-13 | Density determination kit (for 1 mg models only) | $503.00 |
| **192678** | GXA-17 | Large breeze break with built-in fanless ionizer (static eliminator) | $925.00 |
| **192679** | GXA-23-PRINT | External key input interface for SW:137-PRINT foot switch | $210.00 |
| **192680** | GXA-23-RZERO | External key input interface for SW:137-REZERo foot switch | $210.00 |
| **192681** | GXA-23-PLUG | External key input interface for AX-T-314A-S plug | $203.00 |
| **192682** | GXA-24 | USB host interface (USB A type) | $108.00 |
| **192683** | GXA-25 | External fanless ionizer (static eliminator) | $811.00 |
| **192684** | GXA-26 | External IR switch (MiniDIN 4 pin male) | $171.00 |





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Capacity: 210 g-310 g  Readability: 0.001 g

## Standard Features

- Pill-counting feature also complies with Handbook 44 requirements
- Fast, Super Hybrid Sensor (SHS) gives you the ultimate in response speed; just one second
- Nine weighing modes
- GLP/GMP/ISO compliance
- WinCT© communication tools software included
- Weighing chamber
- Tough die-cast aluminum housing
- Removable stainless steel pan 5 in x 5 in (127 mm x 127 mm)
- NTEP Certified and Pharmacopoeia approved
- IP54 splash proof operator keyboard protects against dust and spills, stainless steel weigh pan
- Data memory function
- Vacuum Fluorescent Display (VFD)
- RS-232

APPROVALS



## Specifications

| | GF-200P^ | GF-300P^ |
|---|---|---|
| NTEP Part # | 97799 | 97800 |
| NTEP List Price | $1,385.00 | $1,650.00 |
| Capacity | 210 g | 310 g |
| **Resolution** | **0.001 g** | **0.001 g** |
| **Operating Modes** | **Weigh, Count and Percent** | |
| Decimal Ounce | 7.40755 x 0.00005 oz | 10.93493 x 0.00005 oz |
| Repeatability | 0.001 g | |
| Linearity | ±0.002 g | |
| Stabilization Time | Approx 1 second (typical in FAST mode) | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | |
| Weighing Chamber | 3.6 in H (91.4 mm) | |
| **Pan Size** | **5 x 5 in (127 mm)** | |
| Dimensions | 8.27 x 12.48 x 3.39 in (210 x 317 x 86 mm) | |
| Weight (Approx.) | 2.15 lb (4.6 kg) | |
| Est. Ship Weight | 11 lb (5.2 kg) | |
| Power | 110/220V VAC adapter | |
| Approvals | NTEP CC 04-077 e=0.01g | |
| **Warranty** | **Five-year Limited Warranty** | |
| **Return Policy** | **A&D Weighing Standard Policy - restock fee may apply** | |

*^ Weighing Chamber*

## Part Number/ Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97799** | GF-200P | 210 g x 0.001 g | $1,385.00 |
| **97800** | GF-300P | 310 g x 0.001 g | $1,650.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **102891** | GX-02 | USB option | $153.00 |
| **97697** | GX-10 | Glass breeze break for GF-200 and 300 | $281.00 |
| **97703** | AX:073003691-S | Protective in-use cover for GF-200/300 (each) | $20.00 |
| **97649** | TB:648 | AC adapter (120V/220V) standard with unit | $44.00 |



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A&D WEIGHING

# FX-i Series

Toploader Balances

Capacity: 120 g-3,200 g  Readability: 0.001 g-0.01 g



## Standard Features

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data
- RS-232C bidirectional communication
- Multiple units of measurement
- Response indicator function
- Weighing chamber
- Underhook weighing

## Options:

- Built-in rechargeable battery
- Quick USB interface (FXi-02) option
- LAN-Ethernet interface
- WinCT © communication tools software

*Note: FXi NTEP and FXi models available by special order (internal calibration)*

## Specifications

| | | FX-120i^ | FX-200i^ | FX-300i^ | FX-300iNC^ |
|---|---|---|---|---|---|
| **Part #** | | **98021** | **98022** | **98023** | **—** |
| **List Price** | | **$1,065.00** | **$1,100.00** | **$1,160.00** | **—** |
| Canada | **Part #** | **—** | **—** | **—** | **168077** |
| Canada | **List Price** | **—** | **—** | **—** | **$1,210.00** |
| Capacity | | 122 g | 220 g | 320 g | 320 g |
| **Resolution** | | **0.001 g** | **0.001 g** | **0.001 g** | **0.001 g** |
| Operating Modes | | Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator | | | |
| Repeatability | | 0.001 g | | | |
| Linearity | | ±0.002 g | | | |
| Stabilization Time | | Approx. 1 second | | | |
| Sensitivity Drift | | ±2 ppm/° C | | | |
| Display Refresh Rate | | 5 times / second, 10 times / second or 20 times / second | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation) | | | |
| **Pan Size** | | **130 mm (5.12 in)** | | | |
| Dimensions | | (W x D x H) 7.6 x 10.3 x 3.3 in (193 x 262.5 x 84.5 mm) | | | |
| Weight | | Approx. 2.5 kg | | | |
| Est. Ship Weight | | 8 lb (3.5 kg) | | | |
| External Calibration (weight optional) | | 100 g | 200 g | 300 g | 300 g |
| Power Consumption | | 120/240 V AC adapter, approx. 11 VA | | | |
| Approvals | | - | - | - | e=0.01 g, AM-5692 |
| **Warranty** | | **Five-year Limited Warranty** | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | |
| UNIT OF MEASURE | Decimal Ounce | 4.30 x 0.00005 oz | 7.76 x 0.00005 oz | 11.28 x 0.00005 oz | – |
| UNIT OF MEASURE | Pound | 0.268 x 0.000005 lb | 0.485 x 0.000005 lb | 0.705 x 0.000005 lb | – |
| UNIT OF MEASURE | Pound/Ounce | 0 lb, 4.30 oz x 0.01 oz | 0 lb, 7.76 oz x 0.01 oz | 0 lb, 11.29 oz x 0.01 oz | – |
| UNIT OF MEASURE | Troy Ounce | 3.92 x 0.00005 ozt | 7.07 x 0.00005 ozt | 10.28 x 0.00005 ozt | – |
| UNIT OF MEASURE | Carat | 610 x 0.005 ct | 1,100 x 0.005 ct | 1,600 x 0.005 ct | – |
| UNIT OF MEASURE | Pennyweight | 78.6 x 0.001 dwt | 141.7 x 0.001 dwt | 206.2 x 0.001 dwt | – |
| UNIT OF MEASURE | Grain Unit | 1,882 x 0.02 GN | 3,395 x 0.02 GN | 4,938 x 0.02 GN | – |

*^Weighing Chamber*



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## Specifications

| | | FX-1200i | 1200iNC | FX-2000i | FX-3000i |
|---|---|---|---|---|---|
| **Part #** | | **98024** | **—** | **98025** | **98026** |
| **List Price** | | **$1,100.00** | **—** | **$1,150.00** | **$1,190.00** |
| NTEP | **Part #** | **163641** | **—** | **—** | **—** |
| NTEP | **List Price** | **$1,150.00** | **—** | **—** | **—** |
| Canada | **Part #** | **—** | **168076** | **—** | **—** |
| Canada | **List Price** | **—** | **$1,150.00** | **—** | **—** |
| Capacity | | 1,220 g | 1,220 g | 2,200 g | 3,200 g |
| **Resolution** | | **0.01 g** | **0.01 g** | **0.01 g** | **0.01 g** |
| Operating Modes | | Weigh, Count, Percent, Animal Weighing, Statistical, Hold and Comparator | | | |
| Repeatability | | 0.01 g | | | |
| Linearity | | ±0.02 g | | | |
| Stabilization Time | | Approx. 1 second | | | |
| Sensitivity Drift | | ±2 ppm/° C | | | |
| Display Refresh Rate | | 5 times / second, 10 times / second or 20 times / second | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation) | | | |
| **Pan Size** | | **150 mm (5.90 in)** | | | |
| Dimensions | | (W x D x H) 7.6 x 10.3 x 3.3 in (193 x 262.5 x 84.5 mm) | | | |
| Weight | | Approx. 2.5 kg | | | |
| Est. Ship Weight | | 8 lb (3.5 kg) | | | |
| External Calibration (weight optional) | | 1,000 g | 1,000 g | 2,000 g | 3,000 g |
| Power Consumption | | 120/240 V AC adapter, approx. 11 VA | | | |
| Approvals | | NTEP 08-045 e=0.1g (PN 163641 only) | e=0.1g, AM-5692 | – | – |
| **Warranty** | | **Five-year Limited Warranty** | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | |
| UNIT OF MEASURE | Decimal Ounce | 4.30 x 0.00005 oz | – | 77.6 x 0.0005 oz | 112.8 x 0.0005 oz |
| UNIT OF MEASURE | Pound | 0.268 x 0.000005 lb | – | 4.85 x 0.00005 lb | 7.05 x 0.00005 lb |
| UNIT OF MEASURE | Pound/Ounce | 0 lb, 4.30 oz x 0.01 oz | – | 4 lb, 13.60 oz x 0.01 oz | 7 lb, 0.88 oz x 0.01 oz |
| UNIT OF MEASURE | Troy Ounce | 3.92 x 0.00005 ozt | – | 70.7 x 0.0005 ozt | 102.8 x 0.0005 ozt |
| UNIT OF MEASURE | Carat | 610 x 0.005 ct | – | 11,000 x 0.05 ct | 16,000 x 0.05 ct |
| UNIT OF MEASURE | Pennyweight | 78.6 x 0.001 dwt | – | 1,417 x 0.01 dwt | 2,062 x 0.01 dwt |
| UNIT OF MEASURE | Grain Unit | 1,882 x 0.02 GN | – | 33,951 x 0.2 GN | 49,383 x 0.2 GN |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **98021** | FX-120i | 122 g x 0.001 g | $1,065.00 |
| **98022** | FX-200i | 220 g x 0.001 g | $1,100.00 |
| **98023** | FX-300i | 320 g x 0.001 g | $1,160.00 |
| **168077** | FX-300iNC | 320 g x 0.001 g, Canada grams only | $1,210.00 |
| **98024** | FX-1200i | 1,220 g x 0.01 g | $1,100.00 |
| **163641** | FX-1200iN | 1,220 g x 0.01 g | $1,150.00 |
| **168076** | FX-1200iNC | 1,220 g x 0.01 g, Canada grams only | $1,150.00 |
| **98025** | FX-2000i | 2,200 g x 0.01 g | $1,150.00 |
| **98026** | FX-3000i | 3,200 g x 0.01 g | $1,190.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **98027*** | FXi-02 | Quick USB interface | $89.00 |
| **98028*** | FXi-08 | Ethernet interface with WinCT© Plus software | $490.00 |
| **98029*** | FXi-09 | Built-in rechargeable battery | $327.00 |
| **98030** | FXi-10 | Small breeze break | $79.00 |
| **98031** | FXi-11 | Large breeze break | $133.00 |
| **97649** | TB:648 | AC adapter (120 V/220 V) | $44.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |

**Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.*





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A&D WEIGHING

# FX-iWP Series

Toploader/Washdown Balances

Capacity: 122 g-3,200 g  Readability: 0.001 g-0.01 g



## Standard Features

- Washdown IP65 rating
- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data
- RS-232C bidirectional communication
- Multiple units of measurement
- Response indicator function
- Underhook weighing

## Optional Features

- Optional built-in rechargeable battery
- LAN-Ethernet interface
- WinCT© communication tools software

## Specifications

| | | FX-120iWP^ | FX-200iWP^ | FX-300iWP^ | FX-1200iWP | FX-2000iWP | FX-3000iWP |
|---|---|---|---|---|---|---|---|
| **Part #** | | **102905** | **102906** | **102907** | **102908** | **102909** | **102910** |
| **List Price** | | **$1,485.00** | **$1,565.00** | **$1,670.00** | **$1,480.00** | **$1,565.00** | **$1,665.00** |
| Capacity | | 122 g | 220 g | 320 g | 1,220 g | 2,200 g | 3,200 g |
| **Resolution** | | **0.001 g** | **0.001 g** | **0.001 g** | **0.01 g** | **0.01 g** | **0.01 g** |
| Repeatability | | 0.001 g | | | 0.01 g | | |
| Linearity | | ±0.002 g | | | ±0.02 g | | |
| Stabilization Time | | Approx. 1 second | | | | | |
| Sensitivity Drift | | ±2 ppm/° C | | | | | |
| Display Refresh Rate | | 5 times/second, 10 times/second or 20 times/second | | | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) 85% RH or less (no condensation) | | | | | |
| **Pan Size** | | **Ø 5.12 in (130 mm)** | | | **Ø 5.90 in (150 mm)** | | |
| Dimensions | | (W x D x H) 6 x 10.3 x 3.3 in (193 x 262.5 x 84.5 mm) | | | | | |
| Weight | | Approx. 2.5 kg | | | | | |
| Est. Ship Weight | | 8 lb (3.5 kg) | | | | | |
| External Calibration (weight optional) | | 100 g | 200 g | 300 g | 1,000 g | 2,000 g | 3,000 g |
| Power Consumption | | 120/240 VAC adapter, approx. 11 VA | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Decimal Ounce | 4.30 x 0.00005 oz | 7.76 x 0.00005 oz | 11.28 x 0.00005 oz | 43.0 x 0.0005 oz | 77.6 x 0.0005 oz | 112.8 x 0.0005 oz |
| | Pound | 0.268 x 0.000005 lb | 0.485 x 0.000005 lb | 0.705 x 0.000005 lb | 2.68 x 0.00005 lb | 4.85 x 0.00005 lb | 7.05 x 0.00005 lb |
| | Pound x Ounce | 0 lb, 4.30 oz x 0.01 oz | 0 lb, 7.76 oz x 0.01 oz | 0 lb, 11.29 oz x 0.01 oz | 2 lb, 11.03 oz x 0.01 oz | 4 lb, 13.60 oz x 0.01 oz | 7 lb, 0.88 oz x 0.01 oz |
| | Troy Ounce | 3.92 x 0.00005 ozt | 7.07 x 0.00005 ozt | 10.28 x 0.00005 ozt | 39.2 x 0.0005 ozt | 70.7 x 0.0005 ozt | 102.8 x 0.0005 ozt |
| | Carat | 610 x 0.005 ct | 1,100 x 0.005 ct | 1,600 x 0.005 ct | 6,100 x 0.05 ct | 11,000 x 0.05 ct | 16,000 x 0.05 ct |
| | Pennyweight | 78.6 x 0.001 dwt | 141.7 x 0.001 dwt | 206.2 x 0.001 dwt | 786 x 0.01 dwt | 1,417 x 0.01 dwt | 2,062 x 0.01 dwt |
| | Grain Unit | 1,882 x 0.02 GN | 3,395 x 0.02 GN | 4,938 x 0.02 GN | 18,827 x 0.2 GN | 33,951 x 0.2 GN | 49,383 x 0.2 GN |

*^Weighing Chamber*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **102905** | FXi-120iWP | 122 g x 0.001 g | $1,485.00 |
| **102906** | FXi-200iWP | 220 g x 0.001 g | $1,565.00 |
| **102907** | FXi-300iWP | 320 g x 0.001 g | $1,670.00 |
| **102908** | FXi-1200iWP | 1,220 g x 0.01 g | $1,480.00 |
| **102909** | FXi-2000iWP | 2,200 g x 0.01 g | $1,565.00 |
| **102910** | FXi-3000iWP | 3,200 g x 0.01 g | $1,665.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **98027*** | FXi-02 | Quick USB interface | $89.00 |
| **98028*** | FXi-08 | Ethernet interface with WinCT© Plus software | $490.00 |
| **98029*** | FXi-09 | Built-in rechargeable battery | $327.00 |
| **98030** | FXi-10 | Small breeze break | $79.00 |
| **98031** | FXi-11 | Large breeze break | $133.00 |
| **97649** | TB:648 | AC adapter (120V/220V) | $44.00 |

**Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.*





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A&D WEIGHING

# AD-1683

Static Eliminator



## Standard Features

- Can be easily and safely installed; requires no high-voltage wiring
- Eliminates static charges from quickly running or highly electrified work pieces
- Little or no reverse charge is induced by irradiated ions because of its excellent ion polarity or the potential of the charged object
- Achieves static elimination with a huge degree of efficiency regardless of the polarity or the potential of the charged object
- Suited for static elimination in narrow and remote places because of its lengthy ion irradiation distance
- Produces only a little amount of ozone thanks to its high ion generation efficiency
- A current limiting circuit is incorporated in the ion generating electrode to reduce the possibility of electric shock
- No swing in surface potential of the charged object

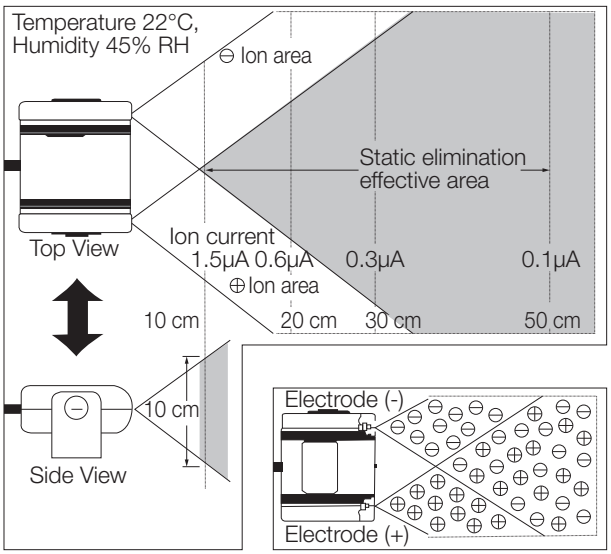
## Specifications

| | AD-1683 |
|---|---|
| **Part #** | **97610** |
| **List Price** | **$1,256.00** |
| Elimination Range | Distance: 10 cm to 30 cm from the electrode area: 30 cm x 30 cm |
| Static Elimination Method | DC corona discharge DUAL-DC |
| Static Eliminating Electrode | Tungsten emitter |
| Environmental Conditions | -5° C to 40° C, 35% to 85%RH (non-condensing) |
| Weight | 300 g |
| Power | 100-240 V AC, 50/60 Hz, 1.5 V AC |
| **Warranty** | **One-year Limited Warranty** |
| **Return Policy** | **A&D Weighing Standard Policy - restock fee may apply** |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97610** | AD-1683 | Static eliminator, balance accessory | $1,256.00 |

*(Below) Example of AD-1683 installation showing static elimination area and an example of ion generation*






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# EJ Newton Series

Compact Balances

Capacity: 120 g-6,100 g  Readability: 0.001 g

## Standard Features

- Easy-to-read seven segment LCD display with backlight
- 10 units of measurement
- Battery operated (4 AA not included)
- Selectable modes: weight, count, percentage and specific gravity
- 115VAC adaptor included (230VAC optional)

*EJ-200*



*EJ-2000*



## Specifications

| | | EJ-123^ | EJ-120 | EJ-200 | EJ-300 | EJ-410 | EJ-610 |
|---|---|---|---|---|---|---|---|
| **Part #** | | **163274** | **112410** | **112411** | **112412** | **112413** | **112414** |
| **List Price** | | **$530.00** | **$280.00** | **$340.00** | **$400.00** | **$435.00** | **$575.00** |
| Capacity | | 120 g | 120 g | 210 g | 310 g | 410 g | 610 g |
| **Resolution** | | **0.001 g** | **0.01 g** | **0.01 g** | **0.01 g** | **0.01 g** | **0.01 g** |
| Operating Modes | | Specific Gravity, Counting, Percentage, Checkweighing | | | | | |
| Repeatability | | 0.003 g | 0.01 g | | | | |
| Linearity | | 0.003 g | ±0.01 g | | ±0.02 g | | |
| Sensitivity Drift | | 20 ppm/° C 50° F to 86° F (10° C to 30° C) | | | | | |
| Display Type | | 7 segment LCD with backlight (character height 16 mm) | | | | | |
| Operating Temperature | | 14° F to 104° F (-10° C to 40° C) less than 85% R.H. (non-condensing) | | | | | |
| **Pan Size W x D** | | **Ø 4.3 in (110 mm)** | | | | | |
| Physical Dimensions | | (W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm) | | | | | |
| Weight (approx.) | | 850 g | | | | | |
| Calibration Mass (default setting) | | 100 g | 100 g | 200 g | 300 g | 400 g | 600 g |
| Power | | 120 VAC adapter (4 AA size dry-cell batteries - 70 hours operation) | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Decimal Ounce | 4.233 x 0.0001 oz | 4.233 x 0.001 oz | 7.408 x 0.001 oz | 10.935 x 0.001 oz | 14.462 x 0.001 oz | 21.517 x 0.001 oz |
| | Decimal Pound | N/A | N/A | N/A | N/A | 0.9039 x 0.0001 lb | 1.3448 x 0.0001 lb |
| | Troy Ounce | 3.858 x 0.0001 ozt | 3.858 x 0.001 ozt | 6.752 x 0.001 ozt | 9.967 x 0.001 ozt | 13.182 x 0.001 ozt | 19.612 x 0.001 ozt |
| | Pennyweight | 77.16 x 0.001 dwt | 77.16 x 0.01 dwt | 135.03 x 0.01 dwt | 199.33 x 0.01 dwt | 263.64 x 0.01 dwt | 392.24 x 0.01 dwt |
| | Carat | 600.00 x 0.005 ct | 600.00 x 0.05 ct | 1,050.00 x 0.05 ct | 1,550.00 x 0.05 ct | 2,050.0 x 0.05 ct | 3,050.0 x 0.05 ct |
| | Momme | N/A | 32.000 x 0.005 mom | 56.000 x 0.005 mom | 82.665 x 0.005 mom | 109.335 x 0.005 mom | 162.665 x 0.05 mom |
| | Grain Unit | 1,851.8 x 0.2 GN | 1,851.8 x 0.2 GN | 3,240.8 x 0.2 GN | 4,784.0 x 0.2 GN | 6,327.2 x 0.2 GN | 9,413.8 x 0.2 GN |
| | Tael (HK General) | N/A | 3.1745 x 0.0005 TL | 5.5555 x 0.0005 TL | 8.2010 x 0.0005 TL | 10.8465 x 0.0005 TL | 16.1380 x 0.0005 TL |
| | Tola | N/A | 10.288 x 0.001 to | 18.004 x 0.001 to | 26.578 x 0.001 to | 35.151 x 0.001 to | 52.299 x 0.001 to |

*^Weighing Chamber*



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# EJ Newton Series

Compact Balances

## Specifications

| | | EJ-1500 | EJ-2000 | EJ-3000 | EJ-4100 | EJ-6100 |
|---|---|---|---|---|---|---|
| **Part #** | | **112415** | **112416** | **112417** | **112418** | **112419** |
| **List Price** | | **$275.00** | **$330.00** | **$400.00** | **$460.00** | **$515.00** |
| Capacity | | 1,500 g | 2,100 g | 3,100 g | 4,100 g | 6100 g |
| **Resolution** | | **0.1 g** | **0.1 g** | **0.1 g** | **0.1 g** | **0.1 g** |
| Operating Modes | | Specific Gravity, Counting, Percentage, Checkweighing | | | | |
| Repeatability | | 0.1 g | | | | |
| Linearity | | ±0.1 g | | ±0.2 g | | |
| Sensitivity Drift | | 20 ppm/° C 50° F to 86° F (10° C to 30° C) | | | | |
| Display Type | | 7 segment LCD with backlight (character height 16 mm) | | | | |
| Operating Temperature | | 14° F to 104° F (-10° C to 40° C) less than 85% R.H. (non-condensing) | | | | |
| **Pan Size W x D** | | **5 x 5.5 in (127 x 140 mm)** | | | | |
| Physical Dimensions | | (W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm) | | | | |
| Weight (approx.) | | 1,100 g | | | | |
| Calibration Mass (default setting) | | 1,500 g | 2,000 g | 3,000 g | 4,000 g | 6,000 g |
| Power | | 120 VAC adapter (4 AA size dry-cell batteries-70 hours operation) | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | |
| UNIT OF MEASURE | Decimal Ounce | 52.91 x 0.01 oz | 74.08 x 0.01 oz | 109.35 x 0.01 oz | 144.62 x 0.01 oz | 215.17 x 0.01 oz |
| | Decimal Pound | 3.307 x 0.001 lb | 4.630 x 0.001 lb | 6.834 x 0.001 lb | 9.039 x 0.001 lb | 13.4488 x 0.001 lb |
| | Troy Ounce | 48.23 x 0.01 ozt | 67.52 x 0.01 ozt | 99.67 x 0.01 ozt | 131.82 x 0.01 ozt | 196.12 x 0.01 ozt |
| | Pennyweight | 964.5 x 0.1 dwt | 1,350.3 x 0.1 dwt | 1,993.3 x 0.1 dwt | 2,636.4 x 0.1 dwt | 3,922.4 x 0.1 dwt |
| | Carat | - | - | - | - | - |
| | Momme | 4,000.00 x 0.05 mom | 560.00 x 0.05 mom | 826.65 x 0.05 mom | 1,093.35 x 0.05 mom | 1,626.65 x 0.05 mom |
| | Grain Unit | 23,148 x 2 GN | 32,408 x 2 GN | 47,840 x 2 GN | 63,272 x 2 GN | 94,138 x 2 GN |
| | Tael (HK General) | 39.685 x 0.005 TL | 55.555 x 0.005 TL | 82.01 x 0.005 TL | 108.465 x 0.005 TL | 161.380 x 0.005 TL |
| | tola | 128.6 x 0.01 to | 180.04 x 0.01 to | 265.78 x 0.01 to | 351.51 x 0.01 to | 522.99 x 0.01 to |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **163274** | EJ-123 | 120 g x 0.001 g | $530.00 |
| **112410** | EJ-120 | 120 g x 0.01 g | $280.00 |
| **112411** | EJ-200 | 210 g x 0.01 g | $340.00 |
| **112412** | EJ-300 | 310 g x 0.01 g | $400.00 |
| **112413** | EJ-410 | 410 g x 0.01 g | $435.00 |
| **112414** | EJ-610 | 610 g x 0.01 g | $575.00 |
| **112415** | EJ-1500 | 1,500 g x 0.1 g | $275.00 |
| **112416** | EJ-2000 | 2,100 g x 0.1 g | $330.00 |
| **112417** | EJ-3000 | 3,100 g x 0.1 g | $400.00 |
| **112418** | EJ-4100 | 4,100 g x 0.1 g | $460.00 |
| **112419** | EJ-6100 | 6,100 g x 0.1 g | $515.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **112426** | EJ-02 | USB interface with cable | $87.00 |
| **112427** | EJ-03 | RS-232 interface with cable | $77.00 |
| **112428** | EJ-07 | Underhook for EJ-3000, EJ-4100 and EJ-6100 | $67.00 |
| **112429** | EJ-08 | Underhook for EJ-1500 and EJ-2000 | $67.00 |
| **112430** | EJ-11 | Breeze break | $67.00 |
| **112431** | EJ-12 | Carrying case | $67.00 |
| **112432** | EJ-13 | Density determination kit | $77.00 |
| **97766** | TB:662 | AC adapter, 120 V | $43.00 |
| **97767** | TB:164 | AC adapter, 220 V | $53.00 |
| **151247** | AD-1688 | Data logger | $311.00 |





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# EK-AEP Series

Intrinsically Safe Compact Balances

Capacity: 300 g to 12 kg  Readability: 0.01 g to 1 g

## Standard Features

- LCD display
- ATEX and FM approved (Class I, division 1, groups C and D)
- Optical data output
- 200 hours of battery operation*
- Auto power off
- Counting/Percentage/Specific Gravity modes
- Multiple weighing units: g, oz, lb, ozt, ct, mom, dwt, gr, N
- Optical data output



*EK-300AEP*



*EK-3000AEP*

APPROVALS

FM APPROVED

## Specifications

| | EK-300AEP | EK-3000AEP | EK-12KAEP |
|---|---|---|---|
| **Part #** | **199565** | **199566** | **199567** |
| **List Price** | **$1,650.00** | **$1,750.00** | **$1,950.00** |
| Capacity | 300 g | 3,000 g | 12,000 g |
| **Resolution** | **0.01 g** | **0.1 g** | **1 g** |
| Operating Modes | Counting, Percentage, Specific Gravity | | |
| Repeatability | 0.01 g | 0.1 g | 1 g |
| Linearity | ±0.02 g | ±0.2 g | ±1 g |
| Sensitivity Drift | ±20 ppm/°C (10°C to 30°C/50°F to 86°F) | | |
| Operating Temperature | 32°F to 104°F (0°C to 40°C) | | |
| **Pan Size** | **Ø4.33 in (110 mm)** | **5.24 in x 6.69 in (133 mm x 170 mm)** | |
| Physical Dimensions | (W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm) | | |
| Weight (approx.) | 2.4 lb (1.1 kg) | 3.5 lb x (1.5 kg) | |
| Calibration Mass (default setting) | 300 g | 3,000 g | 10 kg |
| Power | Four AA batteries* | | |
| **Warranty** | **Two-year Limited Warranty** | | |
| **Return Policy** | **A&D Weighing Standard Policy - restock fee may apply** | | |
| UNIT OF MEASURE Decimal Ounce | 10.580 x 0.005 oz | 105.80 x 0.05 oz | 423.2 x 0.2 oz |
| Decimal Pound | 0.6615 x 0.0005 lb | 6.615 x 0.005 lb | 26.46 x 0.02 lb |
| Troy Ounce | 9.645 x 0.005 ozt | 96.45 x 0.05 ozt | 385.8 x 0.2 ozt |
| Pennyweight | 192.9 x 0.1 dwt | 1929 x 1 dwt | 7715 x 5 dwt |
| Carat | 1500 x 0.5 ct | – | – |
| Momme | 80.00 x 0.05 mom | 800 x 0.5 mom | 3,200 x 2 mom |
| Grain Unit | 4,630 x 2 GN | – | – |
| Newtons | 2.942 x 0.0001 N | 29.42 x 0.001 N | 117.68 x 0.01 N |

**Battery life determined with backlight off with four AA batteries. The EK-EAP must be used with any of the following to maintain FM integrity: Duracell AA alakline MN 1500 LR6, Energizer AA E91 alkaline LR6 AM3, Panasonic AA alkaline LR6 (XJ). Do not mix type or new/used batteries.*

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **199565** | EK-300AEP | 300 g x 0.01 g | $1,650.00 |
| **199566** | EK-3000AEP | 3,000 g x 0.1 g | $1,750.00 |
| **199567** | EK-12KAEP | 12 kg x 1 g | $1,950.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **177696** | EJ-12 | Carrying case | $65.00 |
| **202077** | AD-1611 | Safe area serial output module (requires a fiber optic cable) | $459.00 |
| **202074** | AX-KS5456-010 | Fiber Optic Cable (10m) | $328.00 |
| **202075** | AX-KS5456-030 | Fiber Optic Cable (30m) | $590.00 |
| **202076** | AX-KS5456-060 | Fiber Optic Cable (60m) | $850.00 |





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A&D WEIGHING

# EK-i Series

Compact Balances

Capacity: 120 g-12,000 g  Readability: 0.01 g-1 g



## Standard Features

- Backlit weight display
- Remote zeroing
- Easy to install NiCAd battery option
- Nine weighing modes
- RS-232C bidirectional interface

APPROVALS

## Specifications

| | | EK-120i | EK-200i | EK-300i | EK-410i | EK-610i | EK-600i | EK-1200i |
|---|---|---|---|---|---|---|---|---|
| **Part #** | | **97747** | **97748** | **97749** | **97750** | **97751** | **-** | **-** |
| **List Price** | | **$520.00** | **$550.00** | **$575.00** | **$645.00** | **$750.00** | **-** | **-** |
| **NTEP** | **Part #** | **-** | **-** | **-** | **-** | **-** | **97752** | **97753** |
| | **List Price** | **-** | **-** | **-** | **-** | **-** | **$520.00** | **$540.00** |
| Approvals | | - | | | | | NTEP CC 04-019 | |
| Capacity | | 120 g | 200 g | 300 g | 400 g | 600 g | 600 g | 1,200 g |
| Resolution | | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g | 0.1 g | 0.1 g |
| Operating Modes | | Counting, Percentage | | | | | | |
| Repeatability | | 0.01 g | | | | | 0.1 g | |
| Linearity | | ±0.01 g | | ±0.02 g | | | ±0.1 g | |
| Sensitivity Drift | | 20 ppm/° C 50° F to 86° F (10° C to 30° C) | | | | | | |
| Display Type | | 7 segment LCD with backlight (character height 16 mm) | | | | | | |
| Operating Temperature | | 14° F to 104° F (-10° C to 40° C) less than 85% R.H. (non-condensing) | | | | | | |
| **Pan Size W x D** | | **Ø 4.3 in (110 mm)** | | | | | **5.2 in x 6.7 in (133 x 170 mm)** | |
| Physical Dimensions | | (W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm) | | | | | | |
| Weight (approx.) | | 2.4 lb (1.1 kg) | | | | | 3.5 lb (1.5 kg) | |
| Calibration Mass (default setting) | | 120 g | 200 g | 300 g | 400 g | 600 g | 600 g | 1,200 g |
| Power | | 120 VAC adapter (Optional Ni-MH battery pack) | | | | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | | |
| **UNIT OF MEASURE** | Decimal Ounce | 4.2330 x 0.0005 oz | 7.0550 x 0.0005 oz | 10.5820 x 0.0005 oz | 14.110 x 0.001 oz | 21.164 x 0.001 oz | 21.165 x 0.005 oz | 42.330 x 0.005 oz |
| | Decimal Pound | - | - | - | 0.8818 x 0.0001 lb | 1.3228 x 0.0001 lb | 1.3230 x 0.0005 lb | 2.6455 x 0.0005 lb |
| | Troy Ounce | 3.8580 x 0.0005 ozt | 6.4300 x 0.0005 ozt | 9.6450 x 0.0005 ozt | 12.860 x 0.001 ozt | 19.290 x 0.001 ozt | 19.290 x 0.005 ozt | 38.580 x 0.005 ozt |
| | Pennyweight | 77.16 x 0.01 dwt | 128.60 x 0.01 dwt | 192.90 x 0.01 dwt | 257.21 x 0.01 dwt | 385.81 x 0.01 dwt | 385.8 x 0.1 dwt | 771.6 x 0.1 dwt |
| | Carat | 600.00 x 0.05 ct | 1000.00 x 0.05 ct | 1500.00 x 0.05 ct | 2000.0 x 0.1 ct | 3000.0 x 0.1 ct | 3000.0 x 0.5 ct | 6000.0 x 0.5 ct |
| | Momme | 32.000 x 0.005 mom | 53.335 x 0.005 mom | 80.000 x 0.005 mom | 106.665 x 0.005 mom | 160.000 x 0.005 mom | 160.00 x 0.05 mom | 320.00 x 0.05 mom |
| | Grain Unit | 1,851.8 x 0.2 GN | 3,086.4 x 0.2 GN | 4,629.8 x 0.2 GN | 6,173.0 x 0.2 GN | 9,259.4 x 0.2 GN | 92,594 x 2 GN | 18,518 x 2 GN |
| | Tael (HK General) | 3.1745 x 0.0005 TL | 5.2910 x 0.0005 TL | 7.9365 x 0.0005 TL | 10.5820 x 0.0005 TL | 15.8735 x 0.0005 TL | 15.875 x 0.005 TL | 31.745 x 0.005 TL |



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## Specifications

| | | EK-2000i | EK-3000i | EK-4100i | EK-6100i | EK-6000i | EK-12Ki |
|---|---|---|---|---|---|---|---|
| **Part #** | | **97754** | **97755** | **97756** | **97757** | **—** | **—** |
| **List Price** | | **$565.00** | **$605.00** | **$725.00** | **$885.00** | **—** | **—** |
| **NTEP** | **Part #** | **—** | **—** | **—** | **—** | **97758** | **97759** |
| | **List Price** | **—** | **—** | **—** | **—** | **$565.00** | **$730.00** |
| Capacity | | 2,000 g | 3,000 g | 4,000 g | 6,000g | 6,000 g | 12,000 g |
| **Resolution** | | **0.1 g** | **0.1 g** | **0.1 g** | **0.1 g** | **1 g** | **1 g** |
| Operating Modes | | Counting, Percentage | | | | | |
| Repeatability | | 0.1 g | | | | 1 g | |
| Linearity | | ±0.1 g | ±0.2 g | | | ±1 g | |
| Sensitivity Drift | | 20 ppm/° C 50° F to 86° F (10° C to 30° C) | | | | | |
| Display Type | | 7 segment LCD with backlight (character height 16 mm) | | | | | |
| Operating Temperature | | 14° F to 104° F (-10° C to 40° C) less than 85% R.H. (non-condensing) | | | | | |
| **Pan Size W x D** | | **5.2 x 6.7 in (133 x 170 mm)** | | | | | |
| Physical Dimensions | | (W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm) | | | | | |
| Weight (approx.) | | 3.5 lb (1.5 kg) | | | | | |
| Calibration Mass (default setting) | | 2,000 g | 3,000 g | 4,000 g | 6,000 g | | 12 kg |
| Power | | 120 VAC adapter (Optional Ni-MH battery pack) | | | | | |
| Approvals | | - | | | | NTEP CC 04-019 | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | |
| **UNIT OF MEASURE** | Decimal Ounce | 70.550 x 0.005 oz | 105.820 x 0.005 oz | 141.10 x 0.01 oz | 211.64 x 0.01 oz | 211.65 x 0.05 oz | 423.30 x 0.05 oz |
| | Decimal Pound | 4.4090 x 0.0005 lb | 6.6140 x 0.0005 lb | 8.818 x 0.001 lb | 13.228 x 0.001 lb | 13.230 x 0.005 lb | 26.455 x 0.005 lb |
| | Troy Ounce | 64.300 x 0.005 ozt | 96.450 x 0.005 ozt | 128.60 x 0.01 ozt | 192.90 x 0.01 ozt | 192.90 x 0.05 ozt | 385.80 x 0.05 ozt |
| | Pennyweight | 1,286.0 x 0.1 dwt | 1,929.0 x 0.1 dwt | 2,572.1 x 0.1 dwt | 3,858.1 x 0.1 dwt | 3,858 x 1 dwt | 7,716 x 1 dwt |
| | Carat | 10,000.0 x 0.5 ct | 15,000.0 x 0.5 ct | 20,000 x 1 ct | 30,000 x 1 ct | - | - |
| | Momme | 533.35 x 0.05 mom | 800.00 x 0.05 mom | 1,066.65 x 0.05 mom | 1,600.00 x 0.05 mom | 1,600.0 x 0.5 mom | 3,200.0 x 0.5 mom |
| | Grain Unit | 30,864 x 2 GN | 46,298 x 2 GN | 61,730 x 2 GN | 92,594 x 2 GN | - | - |
| | Tael (HK General) | 52.910 x 0.005 TL | 79.365 x 0.005 TL | 105.820 x 0.005 TL | 158.735 x 0.005 TL | 158.75 x 0.05 TL | 317.45 x 0.05 TL |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97747** | EK-120i | 120 g x 0.01 g | $520.00 |
| **97748** | EK-200i | 200 g x 0.01 g | $550.00 |
| **97749** | EK-300i | 300 g x 0.01 g | $575.00 |
| **97750** | EK-410i | 400 g x 0.01 g | $645.00 |
| **97751** | EK-610i | 600 g x 0.01 g | $750.00 |
| **97752** | EK-600i (NTEP Certified) | 600 g x 0.1 g | $520.00 |
| **97753** | EK-1200i (NTEP Certified) | 1,200 g x 0.1 g | $540.00 |
| **97754** | EK-2000i | 2,000 g x 0.1 g | $565.00 |
| **97755** | EK-3000i | 3,000 g x 0.1 g | $605.00 |
| **97756** | EK-4100i | 4,000 g x 0.1 g | $725.00 |
| **97757** | EK-6100i | 6,000 g x 0.1 g | $885.00 |
| **97758** | EK-6000i (NTEP Certified) | 6,000 g x 1 g | $565.00 |
| **97759** | EK-12Ki (NTEP Certified) | 12,000 g x 1 g | $730.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97760** | EKW-04i | Comparator/relay outputs/buzzer | $164.00 |
| **97761** | EKW-07i | Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki | $54.00 |
| **97762** | EKW-09i | NiCAd battery pack | $214.00 |
| **97764** | AX:3005824-5S | Dust cover | $14.00 |
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97766** | TB:662 | AC adapter (120 V) | $43.00 |
| **97767** | TB:164 | AC adapter (240 V) | $53.00 |
| **151247** | AD-1688 | Data logger | $311.00 |





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A&D WEIGHING

# EW-i Series

Compact Balances

Capacity: 30 g-12,000 g  Readability: 0.01 g-5 g



*EW-1500i square pan*



*EW-150i round pan*

## Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCAd battery option
- RS-232C bidirectional interface
- Counting/Percentage/Comparator modes
- Triple range

APPROVALS

## Specifications

| | | EW-150i | | | EW-1500i | | | EW-12Ki | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Part #** | | **97768** | | | **—** | | | **—** | | |
| **List Price** | | **$425.00** | | | **—** | | | **—** | | |
| **NTEP** | **Part #** | **—** | | | **97769** | | | **97771** | | |
| **NTEP** | **List Price** | **—** | | | **$425.00** | | | **$425.00** | | |
| Capacity | | 30 g | 60 g | 150 g | 300 g | 600 g | 1,500 g | 3,000 g | 6,000 g | 12,000 g |
| **Resolution** | | **0.01 g** | **0.02 g** | **0.05 g** | **0.1 g** | **0.2 g** | **0.5 g** | **1 g** | **2 g** | **5 g** |
| Operating Mode | | Counting, Percentage | | | | | | | | |
| Repeatability | | 0.01 g | 0.02 g | 0.05 g | 0.1 g | 0.2 g | 0.5 g | 1 g | 2 g | 5 g |
| Linearity | | ±0.01 g | ±0.02 g | ±0.05 g | ±0.1 g | ±0.2 g | ±0.5 g | ±1 g | ±2 g | ±5 g |
| Sensitivity Drift | | 20 ppm/° C (10° C to 30° C/50° F to 86° F) | | | | | | | | |
| Operating temperature | | 14° F to 104° F (-10° C to 40° C) less than 85% R.H. (non-condensing) | | | | | | | | |
| **Pan Size** | | **Ø 4.3 in (110 mm)** | | | **5.2 x 6.7 in (133 x 170 mm)** | | | | | |
| Dimensions | | (W x D x H) 7.5 x 8.6 x 2.2 in (190 x 218 x 55 mm) | | | | | | | | |
| Weight | | 2.4 lb (1.1 kg) | | | 3.5 lb (1.5 kg) | | | | | |
| Calibration Mass (default setting) | | 150 g | | | 1,500 g | | | 12 kg | | |
| Power | | AC adapter or Ni-MH battery pack (option) | | | | | | | | |
| Approvals | | - | | | NTEP CC 04-019 | | | NTEP CC 04-019 | | |
| **Warranty** | | **Five-year Limited Warranty** | | | | | | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | | | | | | |
| **UNIT OF MEASURE** | Decimal Ounce | 1.0580 x 0.0005 oz | 2.116 x 0.001 oz | 5.292 x 0.002 oz | 10.580 x 0.005 oz | 21.16 x 0.01 oz | 52.92 x 0.02 oz | 105.80 x 0.05 oz | 211.6 x 0.1 oz | 423.2 x 0.2 oz |
| **UNIT OF MEASURE** | Decimal Pound | – | – | – | 0.6615 x 0.0005 lb | 1.323 x 0.001 lb | 3.306 x 0.002 lb | 6.615 x 0.005 lb | 13.23 x 0.01 lb | 26.46 x 0.02 lb |
| **UNIT OF MEASURE** | Troy Ounce | 0.9645 x 0.0005 ozt | 1.929 x 0.001 ozt | 4.822 x 0.002 ozt | 9.645 x 0.005 ozt | 19.29 x 0.01 ozt | 48.22 x 0.02 ozt | 96.45 x 0.05 ozt | 192.9 x 0.1 ozt | 385.8 x 0.2 ozt |
| **UNIT OF MEASURE** | Pennyweight | 19.29 x 0.01 dwt | 38.58 x 0.02 dwt | 96.45 x 0.05 dwt | 192.9 x 0.1 dwt | 385.8 x 0.2 dwt | 964.5 x 0.5 dwt | 1,929 x 1 dwt | 3,858 x 2 dwt | 7,715 x 5 dwt |
| **UNIT OF MEASURE** | Carat | 150.00 x 0.05 ct | 300.0 x 0.1 ct | 750.0 x 0.2 ct | 1,500.0 x 0.5 ct | 3000 x 1 ct | 7500 x 2 ct | - | - | - |
| **UNIT OF MEASURE** | Momme | 8.000 x 0.005 mom | 16.00 x 0.01 mom | 40.00 x 0.02 mom | 80.00 x 0.05 mom | 160.0 x 0.1 mom | 400 x 0.2 mom | 800 x 0.5 mom | 1,600 x 1 mom | 3,200 x 2 mom |
| **UNIT OF MEASURE** | Grain Unit | 463.0 x 0.2 GN | 926.0 x 0.5 GN | 2,315 x 1 GN | 4,630 x 2 GN | 9,260 x 5 GN | 23,150 x 10 GN | - | - | - |
| **UNIT OF MEASURE** | Tael (HK General) | 0.7935 x 0.0005 TL | 1.587 x 0.001 TL | 3.968 x 0.002 TL | 7.935 x 0.005 TL | 15.87 x 0.01 TL | 39.68 x 0.02 TL | 79.35 x 0.05 TL | 158.7 x 0.1 TL | 317.4 x 0.2 TL |



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97768** | EW-150i | 30 g x 0.01 g/60 g x 0.02 g/150 g x 0.05 g | $425.00 |
| **97769** (NTEP) | EW-1500i | 300 g x 0.1 g/600 g x 0.2 g/1,500 g x 0.5 g | $425.00 |
| **97771** (NTEP) | EW-12Ki | 3,000 g x 1 g/6,000 x 2 g/12,000 g x 5 g | $425.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97760** | EKW-04i | Comparator/relay outputs/buzzer | $164.00 |
| **97761** | EKW-07i | Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki | $54.00 |
| **97762** | EKW-09i | NiCAd battery pack | $214.00 |
| **97764** | AX:3005824-5S | Protective dust cover (not in use) | $14.00 |
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97766** | TB:662 | AC adapter (120 V) | $43.00 |
| **97767** | TB:164 | AC adapter (240 V) | $53.00 |
| **151247** | AD-1688 | Data logger | $311.00 |





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A&D WEIGHING

# GX-K Series

Industrial Balances

Capacity: 8,100 g-31,000 g  Readability: 0.01 g-1 g




## Standard Features

- Internal calibration
- Auto environmental compensation
- IP65/NEMA Type 4
- RS-232C bidirectional interface
- Data memory function
- Multiple weighing modes
- Quick reference operation card
- Time and date
- Vacuum Fluorescent Display (VFD)
- Underhook weighing

## Specifications

| | | GX-8K | GX-8K2 | GX-10K | GX-12K |
|---|---|---|---|---|---|
| **Part #** | | **97776** | **97775** | **97777** | **97778** |
| **List Price** | | **$3,570.00** | **$3,085.00** | **$3,800.00** | **$3,240.00** |
| Capacity | | 8.1 kg | 8.1 kg/2.1 kg | 10.1 kg | 12 kg |
| **Resolution** | | **0.01 g** | **0.1 g / 0.01 g** | **0.01 g** | **0.1 g** |
| Operating Modes | | Counting, Percentage | | | |
| Repeatability | | 0.01 g | 0.05 g/0.01 g | 0.01 g | 0.1 g |
| Linearity | | ±0.02 g | ±0.1 g/±0.02 g | ±0.03 g | ±0.2 g |
| Sensitivity drift | | ±2 ppm/° C | ±3 ppm/° C | ±2 ppm/° C | ±3 ppm/° C |
| Stabilization time | | Approx 1.5 seconds | | | |
| Operating temperature | | 41° F to 104° F (-5° C to 40° C) | | | |
| **Pan Size** | | **10.62 x 8.26 in (270 x 210 mm)** | | | |
| Dimensions | | (W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm) | | | |
| Weight | | 18.3 lb (8.3 kg) | | | |
| External Cal mass | | 2, 3, 4, 5, 6, 7, 8 kg | | 10 kg | 5, 10 kg |
| Power | | 120/240 V AC adapter | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | |
| UNIT OF MEASURE | Decimal Ounces | 285.7190 x 0.0005 oz | 285.720 x 0.005/74.0755 x 0.0005 oz | 370.4 x 0.0005 oz | 423.290 x 0.005 oz |
| | Troy Ounce | 260.4210 x 0.0005 ozt | 260.420 x 0.005/67.5165 x 0.0005 ozt | 337.6 x 0.0005 ozt | 385.810 x 0.005 ozt |
| | Pennyweight | 5,208.42 x 0.01 dwt | 5,208.4 x 0.1/1350.33 x 0.01 dwt | 6,751 x 0.01 dwt | 7,716.2 x 0.1 dwt |
| | Carat | 40,500.00 x 0.05 ct | 40,500.0 x 0.5/10,500.00 x 0.05 ct | 50,500 x 0.05 ct | 60,000 x 0.5 ct |
| | Momme | 2,160.000 x 0.005 mom | 2,160.00 x 0.05/560.000 x 0.005 mom | 2,800.000 x 0.005 mom | 3,200.00 x 0.05 mom |
| | Grain | 125,002.2 x 0.2 GN | 125,002 x 2/32,408.0 x 0.2 GN | 162,040 x 0.2 GN | 185,188 x 2 GN |
| | Pound | 17.85745 x 0.00005 lb | 17.8575 x 0.0005/4.62970 x 0.00005 lb | 23.15 x 0.00005 lb | 26.4555 x 0.0005 lb |
| | Pound/Ounce | 17 lb x 0.001 oz | 17 lb x 0.001 oz | 23 lb x 0.001 oz | 26 lb x 0.01 oz |



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## Specifications

| | | GX-20K | GX-30K | GX-32K |
|---|---|---|---|---|
| **Part #** | | **97779** | **97780** | **97781** |
| **List Price** | | **$3,495.00** | **$4,045.00** | **$3,140.00** |
| Capacity | | 20 kg | 30 kg | 30 kg/6.1 kg |
| **Resolution** | | **0.1 g** | **0.1 g** | **1/0.1 g** |
| Operating Modes | | Counting, Percentage | | |
| Repeatability | | 0.1 g | 0.1 g | 0.5 g / 0.1 g |
| Linearity | | ±0.2 g | ±0.2 g | ±1 g / ±0.2 g |
| Sensitivity drift (-10 to 30° C) | | ±3 ppm/° C | | ±5ppm/° C |
| Stabilization Time | | Approx 1.5 seconds | | |
| Operating Temperature | | 41° F - 104° F (-5° C - 40° C) | | |
| **Pan Size** | | **10.62 x 8.26 in (270 x 210 mm)** | | |
| Dimensions | | (W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm) | | |
| Weight | | 18.3 lb (8.3 kg) | | |
| External Cal Mass | | 10, 20 kg | 20, 30 kg | 20, 30 kg |
| Power | | 120/240 VAC adapter | | |
| **Warranty** | | **Five-year Limited Warranty** | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | |
| UNIT OF MEASURE | Decimal Ounces | 740.755 x 0.005 oz | 1,093.495 x 0.005 oz | 1,093.50 x 0.05/ 215.170 x 0.005 oz |
| | Troy Ounce | 675.165 x 0.005 ozt | 996.675 x 0.005 ozt | 996.65 x 0.05/ 196.120 x 0.005 ozt |
| | Pennyweight | 13,503.3 x 0.1 dwt | 19,933.5 x 0.1 dwt | 19,933 x 1/ 3,922.4 x 0.1 dwt |
| | Carat | 105,000.0 x 0.5 ct | 15,5000.0 x 0.5 ct | 155,000 x 5/ 30,500.0 x 0.5 ct |
| | Momme | 5,600.00 x 0.05 mom | 8,266.65 x 0.05 mom | 8,266.5 x 0.5/ 1,626.65 x 0.05 mom |
| | Grain | 324,080 x 2 GN | 478,404 x 2 GN | - |
| | Pound | 46.2970 x 0.0005 lb | 68.3435 x 0.0005 lb | 68.345 x 0.005/ 13.4480 x 0.0005 lb |
| | Pound/Ounce | 46 lb x 0.01 oz | 68 lb x 0.01 oz | 68 lb x 0.1 oz/13 lb x 0.01 oz |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97776** | GX-8K | 8.1 kg x 0.01 g | $3,570.00 |
| **97775** | GX-8K2 | 8.1/2.1 kg x 0.1/0.01 g | $3,085.00 |
| **97777** | GX-10K | 10.0 kg x 0.01 g | $3,800.00 |
| **97778** | GX-12K | 12 kg x 0.1 g | $3,240.00 |
| **97779** | GX-20K | 20 kg x 0.1 g | $3,495.00 |
| **97780** | GX-30K | 30 kg x 0.1 g | $4,045.00 |
| **97781** | GX-32K | 30/6.1 kg x 1/0.1 g | $3,140.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97782** | GX-04K* | Comparator/output and RS-232C/20 mA interface | $373.00 |
| **97783** | GX-06K* | Analog output/20 mA interface | $857.00 |
| **97784** | GX-07K** | Waterproof cable for standard RS-232C | $317.00 |
| **102899** | GXK-12 | Animal weighing pan | $852.00 |
| **102898** | GXK-31 | Draft shield | $118.00 |
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97785** | AX-073007197A | Protective in-use cover | $21.00 |
| **97649** | TB:648 | AC adapter (120V/220V) | $44.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |

**GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time. IP65 rating does not apply when the GX-04K or the GX-06K is installed.*

***Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65).*





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A&D WEIGHING

# GF-K Series

Precision Balances

Capacity: 8,100 g-31,000 g  Readability: 0.01 g-1 g



## Standard Features

- IP65/NEMA Type 4
- RS-232C bidirectional interface
- Multiple weighing modes
- Quick reference operation card
- Time and date
- Vacuum fluorescent display (VFD)
- Interval time setting
- Underhook weighing

## Specifications

| | | GF-8K2 | GF-8K | GF-10K | GF-12K |
|---|---|---|---|---|---|
| **Part #** | | **97792** | **97793** | **97794** | **97795** |
| **List Price** | | **$2,860.00** | **$3,375.00** | **$3,600.00** | **$3,035.00** |
| Capacity | | 2.1 kg/8.1 kg | 8.1 kg | 10.1 kg | 12 kg |
| **Resolution** | | **0.01 g/0.1 g** | **0.01 g** | **0.01 g** | **0.1 g** |
| Operating Modes | | Counting, Percentage | | | |
| Linearity | | ±0.1 g/±0.02 g | ±0.02 g | ±0.03 g | ±0.2 g |
| Stabilization Time | | Approx. 1.5 seconds (typical in FAST mode) | | | |
| Repeatability | | 0.05 g/0.01 g | 0.01 g | 0.01 g | 0.1 g |
| Sensitivity Drift (10° C to 30° C) | | ±3 ppm/° C | ±2 ppm/° C | ±2 ppm/° C | ±3 ppm/° C |
| Display Refresh | | 5 times per second/10 times per second | | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) RH less than 85% (No condensation) | | | |
| **Pan Size (W x D)** | | **Stainless steel 10.62 x 8.26 in (270 x 210 mm)** | | | |
| Dimensions | | (W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm) | | | |
| Weight | | 18.3 lb (8.3 kg) | | | |
| External Cal. Mass | | 2, 3, 4, 5, 6, 7, 8 kg | | 10 kg | 5, 10 kg |
| Power | | 120/240 V AC adapter | | | |
| **Warranty** | | **Five-year Limited Warranty** | | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | | |
| UNIT OF MEASURE | Decimal Ounces | 285.720 x 0.005/74.0755 x 0.0005 oz | 285.7190 x 0.0005 oz | 370.4 x 0.0005 oz | 423.290 x 0.005 oz |
| | Troy Ounce | 260.420 x 0.005/67.5165 x 0.0005 ozt | 260.4210 x 0.0005 ozt | 337.6 x 0.0005 ozt | 385.810 x 0.005 ozt |
| | Pennyweight | 5,208.4 x 0.1/1,350.33 x 0.01 dwt | 5,208.42 x 0.01 dwt | 6,751 x 0.01 dwt | 7,716.2 x 0.1 dwt |
| | Carat | 40,500.0 x 0.5/10,500.00 x 0.05 ct | 40,500.00 x 0.05 ct | 50,500 x 0.05 ct | 60,000 x 0.5 ct |
| | Momme | 2,160.00 x 0.05/560.000 x 0.005 mom | 2,160.000 x 0.005 mom | 2,800.000 x 0.005 mom | 3,200.00 x 0.05 mom |
| | Grain | 125,002 x 2/32,408.0 x 0.2 GN | 125,002.2 x 0.2 GN | 162,040 x 0.2 GN | 185,188 x 2 GN |
| | Pound | 17.8575 x 0.0005/4.62970 x 0.00005 lb | 17.85745 x 0.00005 lb | 23.15 x 0.00005 lb | 26.4555 x 0.0005 lb |
| | Pound/Ounce | 17 lb x 0.01 oz/4 lb x 0.001 oz | 17 lb x 0.001 oz | 23 lb x 0.001 oz | 26 lb x 0.01 oz |



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## Specifications

| | | GF-20K | GF-30K | GF-32K |
|---|---|---|---|---|
| **Part #** | | **97796** | **97797** | **97798** |
| **List Price** | | **$3,240.00** | **$3,800.00** | **$2,880.00** |
| Capacity | | 21 kg | 31 kg | 6.1/31 kg |
| **Resolution** | | **0.1 g** | **0.1 g** | **0.1/1 g** |
| Operating Modes | | Counting, Percentage | | |
| Linearity | | ±0.2 g | | ±1 g/0.2 g |
| Stabilization time | | Approx. 1.5 seconds (typical in FAST mode) | | |
| Repeatability | | 0.1 g | | 0.5 g/0.1 g |
| Sensitivity Drift (10° C to 30° C) | | ±3 ppm/° C | | ±5 ppm/° C |
| Display refresh | | 5 times per second/10 times per second | | |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) RH less than 85% (No condensation) | | |
| **Pan Size (W x D)** | | **Stainless steel 10.62 x 8.26 in (270 x 210 mm)** | | |
| Dimensions | | (W x D x H) 11.81 x 13.98 x 4.37 in (300 x 355 x 111 mm) | | |
| Weight | | 18.3 lb (8.3 kg) | | |
| External Cal. Mass | | 10, 20 kg | 20, 30 kg | |
| Power | | 120/240 VAC adapter | | |
| **Warranty** | | **Five-year Limited Warranty** | | |
| **Return Policy** | | **A&D Weighing Standard Policy - restock fee may apply** | | |
| UNIT OF MEASURE | Decimal Ounces | 740.755 x 0.005 oz | 1,093.495 x 0.005 oz | 1,093.50 x 0.05/215.170 x 0.005 oz |
| | Troy Ounce | 675.165 x 0.005 ozt | 996.675 x 0.005 ozt | 996.65 x 0.05/196.120 x 0.005 ozt |
| | Pennyweight | 13,503.3 x 0.1 dwt | 19,933.5 x 0.1 dwt | 19,933 x 1/3,922.4 x 0.1 dwt |
| | Carat | 105,000.0 x 0.5 ct | 155,000.0 x 0.5 ct | 155,000 x 5/30,500.0 x 0.5 ct |
| | Momme | 5,600.00 x 0.05 mom | 8,266.65 x 0.05 mom | 8,266.5 x 0.5/1,626.65 x 0.05 mom |
| | Grain | 324,080 x 2 GN | 478,404 x 2 GN | N/A |
| | Pound | 46.2970 x 0.0005 lb | 68.3435 x 0.0005 lb | 68.345 x 0.005/13.4480 x 0.0005 lb |
| | Pound/Ounce | 46 lb x 0.01 oz | 68 lb x 0.01 oz | 68 lb x 0.1 oz/17 lb x 0.01 oz |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97792** | GF-8K2 | 2.1 kg/8.1 kg x 0.01 g/0.1 g | $2,860.00 |
| **97793** | GF-8K | 8.1 kg x 0.01 g | $3,375.00 |
| **97794** | GF-10K | 10.1 kg x 0.01 g | $3,600.00 |
| **97795** | GF-12K | 12 kg x 0.1 g | $3,035.00 |
| **97796** | GF-20K | 21 kg x 0.1 g | $3,240.00 |
| **97797** | GF-30K | 31 kg x 0.1 g | $3,800.00 |
| **97798** | GF-32K | 31 kg/6.1 kg x 1 g/0.1 g | $2,880.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97782** | GX-04K* | Comparator/output and RS-232C/20 mA interface | $373.00 |
| **97783** | GX-06K* | Analog output/20 mA interface | $857.00 |
| **97784** | GX-07K** | Waterproof cable for standard RS-232C | $317.00 |
| **102899** | GXK-12 | Animal weighing pan | $852.00 |
| **102898** | GXK-31 | Draft shield | $118.00 |
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97785** | AX:073007197A | Protective in-use cover | $21.00 |
| **97649** | TB:648 | AC adapter (120 V/220 V) | $44.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |

**GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time. IP65 rating does not apply when the GX-04K or the GX-06K is installed.*

***Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65).*





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A&D WEIGHING

# GP Series

Industrial Balances

Capacity: 12,000 g-101,000 g  Readability: 0.1 g-10 g



## Standard Features

- IP65/NEMA Type 4
- Internal calibration weight with manual, interval or auto-environmental compensation
- RS-232C bidirectional interface
- Data-collection software
- Auto re-zero function
- Multiple weighing modes
- Time and date
- Bright blue fluorescent display
- Adjustable swing arm display
- Die cast aluminum body with stainless weighing pan
- Detached digital weight indicator (KS models only)

## Specifications

| | GP-12K | GP-20K | GP-30K | GP-30KS* | GP-32K | GP-32KS* | GP-40K |
|---|---|---|---|---|---|---|---|
| **Part #** | **97802** | **97803** | **97805** | **97810** | **97804** | **102901** | **97806** |
| **List Price** | **$3,500.00** | **$3,840.00** | **$4,580.00** | **$4,825.00** | **$3,115.00** | **$3,480.00** | **$4,150.00** |
| Capacity | 12 kg | 21 kg | 31 kg | | 31 kg/6 kg | | 41 kg |
| **Resolution** | **0.1 g** | **0.1 g** | **0.1 g** | | **1/0.1 g** | | **0.5 g** |
| Operating Modes | Counting, Percentage | | | | | | |
| Repeatability | 0.1 g | 0.1 g | 0.1 g | - | 0.5 g/0.1 g | - | 0.5 g |
| Linearity | ±0.2 g | ±0.2 g | ±0.2 g | - | ±1 / ±2 g | - | ±1 g |
| Sensitivity Drift (-10° C to +30 ° C) | ±3 ppm/° C | | | | ±5 ppm/° C | | |
| Stabilization Time | Approx. 1.5 seconds (typical in FAST mode) | | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) RH less than 85% (No condensation) | | | | | | |
| **Pan Size (W x D)** | **Stainless steel 15 x 13 in (384 x 344 mm)** | | | | | | |
| Dimensions | (W x D x H) 14.6 x 24.2 x 5.1 in 372 x 615 x 130 mm | | (W x D x H) 13.5 x 17.4 x 5.5 in (344 x 442 x 139 mm) | | (W x D x H) 14.6 x 24.2 x 5.1 in (372 x 615 x 130 mm) | | |
| Height with Column | 652 mm | | | | | | |
| Weight | Approx 37.4 lb (17 kg) | | | | | | |
| External Cal Mass | 5 kg/10 kg | 10 kg/20 kg | 20 kg/30 kg | | | | 20/30/40 kg |
| **Warranty** | **Five-year Limited Warranty** | | | | | | |
| **Return Policy** | **A&D Weighing Standard Policy - restock fee may apply** | | | | | | |
| UNIT OF MEASURE: Decimal Ounces | 423.290 x 0.005 oz | 740.755 x 0.005 oz | 1,093.495 x 0.005 oz | | 1,093.50 x 0.05/215.170 x 0.005 oz | | 1,446.24 x 0.02 oz |
| UNIT OF MEASURE: Troy Ounce | 385.810 x 0.005 ozt | 675.165 x 0.005 ozt | 996.675 x 0.005 ozt | | 996.65 x 0.05/196.120 x 0.005 ozt | | 1,318.18 x 0.02 ozt |
| UNIT OF MEASURE: Pennyweight | 7,716.2 x 0.1 dwt | 13,503.3 x 0.1 dwt | 19,933.5 x 0.1 dwt | | 19,933 x 1/3922.4 x 0.1 dwt | | 26,363.5 x 0.5 dwt |
| UNIT OF MEASURE: Carat | 60,000 x 0.5 ct | 105,000.0 x 0.5 ct | 155000.0 x 0.5 ct | | 155,000 x 5/30,500.0 x 0.5 ct | | 205,000 x 5 ct |
| UNIT OF MEASURE: Momme | 3,200.00 x 0.05 mom | 5,600.00 x 0.05 mom | 8,266.65 x 0.05 mom | | 8,266.5 x 0.5/1,626.65 x 0.05 mom | | 10,933.4 x 0.2 mom |
| UNIT OF MEASURE: Grain | 185,188 x 2 GN | 324,080 x 2 GN | 478,404 x 2 GN | | - | | - |
| UNIT OF MEASURE: Pound | 26.4555 x 0.0005 lb | 46.2970 x 0.0005 lb | 68.3435 x 0.0005 lb | | 68.345 x 0.005/13.4480 x 0.0005 lb | | 90.390 x 0.002 lb |
| UNIT OF MEASURE: Pound/Ounce | 26 lb x 0.01 oz | 46 lb x 0.01 oz | 68 lb x 0.01 oz | | 68 lb x 1 oz/13 lb x 0.01 oz | | 90 lb x 0.1 oz |

**S designates remote indicator*



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## Specifications

| | GP-60K | GP-60KS* | GP-61K | GP-61KS* | GP-100K | GP-100KS* | GP-102K |
|---|---|---|---|---|---|---|---|
| **Part #** | **97807** | **102902** | **102900** | **102903** | **97808** | **97811** | **97809** |
| **List Price** | **$5,100.00** | **$5,350.00** | **$5,870.00** | **$5,690.00** | **$5,500.00** | **$5,825.00** | **$4,940.00** |
| Capacity | 61 kg | | 61 kg | | 100 kg | 101 kg | 101 kg/61 kg |
| **Resolution** | **1 g** | | **0.1 g** | | **1 g** | | **10/1 g** |
| Operating Modes | Counting, Percentage | | | | | | |
| Repeatability | 0.7 g | - | 0.2 g | - | 1 g | - | (5/1) g |
| Linearity | ±1 g | - | ±0.5 g | - | ±2 g | - | ±10 / ±2 g |
| Sensitivity Drift (-10 to +30 ° C) | ±6 ppm/° C | | | | | | ±10 ppm/° C |
| Stabilization Time | Approx. 1.5 seconds (typical in FAST mode) | | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) RH less than 85% (No condensation) | | | | | | |
| **Pan Size (W x D)** | **Stainless steel 15 x 13 in (384 x 344 mm)** | | **-** | | **Stainless steel 15 x 13 in (386 x 346 mm)** | | |
| Dimensions | (W x D x H) 14.6 x 24.2 x 5.1 in (372 x 615 x 130 mm) | | | | | | |
| Height with Column | 25.7 in (652 mm) | | | | | | |
| Weight | Approx 37.4 lb (17 kg) | | | | Approx 39.7 lb (18 kg) | | |
| External Cal Mass | 30/40/50/60 kg | | 20/30/40/50/60 kg | | 60/80/100 kg | | |
| **Warranty** | **Five-year Limited Warranty** | | | | | | |
| **Return Policy** | **A&D Weighing Standard Policy - restock fee may apply** | | | | | | |
| **UNIT OF MEASURE** Decimal Ounces | 2,151.7 x 0.05 oz | | 2,151.7 x 0.005 oz | | 3,562.65 x 0.05 oz | | 3,562.5/2,151.7 x 0.5/0.05 oz |
| Troy Ounce | 1,961.2 x 0.05 ozt | | 1,961.2 x 0.005 ozt | | 3,247.25 x 0.05 ozt | | 3,247/1,961.2 x 0.5/0.05 ozt |
| Pennyweight | 39,224 x 1 dwt | | 39,224 x 0.1 dwt | | - | | - |
| Carat | 305,000 x 5 ct | | 305,000 x 0.5 ct | | - | | - |
| Momme | 16,266.5 x 0.5 mom | | 16,266.5 x 0.05 mom | | 26,933.5 x 0.5 mom | | 26,935/16,266.5 x 5/0.5 mom |
| Pound | 134.480 x 0.005 lb | | 134.480 x 0.0005 lb | | 222.665 x 0.005 lb | | 222.65/134.48 x 0.05/0.005 lb |
| Pound/Ounce | 134 lb x 0.1 oz | | 134 lb x 0.01 oz | | 222 lb x 1 oz | | 222 lb x 1 oz |

**S designates remote indicator*





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# GP Series

Industrial Balances

## Part Number/Price

| Part# | Model# | Description | Price |
|---|---|---|---|
| **97802** | GP-12K | 12 kg x 0.1 g | $3,500.00 |
| **97803** | GP-20K | 21 kg x 0.1 g | $3,840.00 |
| **97805** | GP-30K | 31 kg x 0.1 g | $4,580.00 |
| **97810** | GP-30KS | 31 kg x 0.1 g | $4,825.00 |
| **97804** | GP-32K | 31 kg/6 kg x 1 g/0.1 g | $3,115.00 |
| **102901** | GP-32KS | 31 kg/6 kg x 1 g/0.1 g | $3,480.00 |
| **97806** | GP-40K | 41 kg x 0.5 g | $4,150.00 |
| **97807** | GP-60K | 61 kg x 1 g | $5,100.00 |
| **102902** | GP-60KS | 61 kg x 1 g | $5,350.00 |
| **102900** | GP-61K | 61 kg x 0.1 g | $5,870.00 |
| **102903** | GP-61KS | 61 kg x 0.1 g | $5,690.00 |
| **97808** | GP-100K | 100 kg x 1 g | $5,500.00 |
| **97811** | GP-100KS | 101 kg x 1 g | $5,825.00 |
| **97809** | GP-102K | 101 kg/61 kg x 10 g/1 g | $4,940.00 |

## Options/Accessories

| Part# | A&D Model# | Description | Price |
|---|---|---|---|
| **97607** | AD-1682 | Rechargeable battery pack | $692.00 |
| **97608** | AD-8920 | Universal remote display | $270.00 |
| **97813** | GP-04 | Comparator output with buzzer | $261.00 |
| **97814** | GP-06 | Analog output (replaces standard RS-232C) | $852.00 |
| **97815** | GP-07 | GP extension cable (factory installed 120 day lead time) | $319.00 |
| **97816** | GP-20 | Underhook GP-12 kg thru 40 kg | $184.00 |
| **97817** | GP-21 | Underhook GP-60 kg thru 102 kg | $184.00 |
| **97605** | AD-100-2 | Anti-theft device | $75.00 |
| **97820** | 07:3004753 | Protective in-use cover | $20.00 |
| **97613** | TB:136 | AC adapter (120 V) standard with unit | $43.00 |
| **97614** | TB:137 | AC adapter (220 V) | $52.00 |
| **97609** | AD-8922 | Remote controller | $635.00 |
| **102904** | GP-12 | Animal weighing pan | $1,709.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **97612** | SW:128 | Foot switch | $75.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |





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# MS-70/MX-50/MF-50/ML-50

Moisture Analyzers

Capacity: 51 g-71 g  Readability: 0.001 g-0.0001 g

## Standard Features

- Fast and uniform heating with halogen lamp and uniquely designed (secondary radiation assist) SRA filter
- WinCT© communication tools software
- Sodium tartrate dihydrate is provided as a stable moisture content for accuracy checks of the analyzer
- 5 measurement programs: standard, automatic, timer, manual and quick
- Vacuum fluorescent display (VFD)
- Glass window for heating check and easy cleaning
- Self-check function
- Quick reference card
- Standard bidirectional RS-232C
- GLP/ GMP/GCP/ISO compliant with time and date, ID, calibration data and check record outputs



## Specifications

| | MS-70 | MX-50 | MF-50 | ML-50 |
|---|---|---|---|---|
| **Part #** | **97821** | **97822** | **97823** | **112408** |
| **List Price** | **$5,815.00** | **$3,630.00** | **$2,935.00** | **$2,470.00** |
| Capacity | 71 g | 51 g | 51 g | 51 g |
| **Resolution** | **0.0001 g** | **0.001 g** | **0.002 g** | **0.005 g** |
| Moisture Content Display | 0.001%/0.01%/0.1% | 0.01%/0.1% | 0.05%/0.1%/1% | 0.1%/1% |
| Moisture Content Accuracy Over 1 g | 0.05% | 0.10% | 0.20% | 0.50% |
| Over 5 g | 0.01% | 0.02% | 0.05% | 0.10% |
| Heating Technology | Halogen lamp (straight type, 400 Watt max, 5,000 hours) | | | |
| Drying Temperature | 30° C to 200° C | 50° C to 200° C (1° increment) | | |
| Measurement Program Memories | 20 sets | | 10 sets | 5 sets |
| Data Memory | 100 | | 50 | 30 |
| Measurement Programs | Standard/Automatic/Timer/Manual | | | |
| Measurement Modes | Wet base/Dry base/Solid content/Ratio | | | |
| Operating Temperature | 40° F to 104° F (5° C to 40° C) | | | |
| **Sample Pan Size** | **Ø 2.16 in (85 mm)** | | | |
| Dimensions | (W x D x H) 8.46 x 12.6 x 6.8 in (215 x 320 x 173 mm) | | | |
| Weight | 13 lb (5.9 kg) | | | |
| Power | 120 VAC | | | |
| **Warranty** | **Five-year Limited Warranty** | | | |
| **Return Policy** | **A&D Weighing Standard Policy - restock fee may apply** | | | |





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# MS-70/MX-50/MF-50/ML-50

Moisture Analyzers

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **97821** | MS-70 | 71 g x 0.0001 g | $5,815.00 |
| **97822** | MX-50 | 51 g x 0.001 g | $3,630.00 |
| **97823** | MF-50 | 51 g x 0.002 g | $2,935.00 |
| **112408** | ML-50 | 51 g x 0.005 g | $2,470.00 |

## Options/Accessories

| Part # | A&D Model # | Description | Price |
|---|---|---|---|
| **97824** | AX-31 | Sample pans (washable, 100 each) | $97.00 |
| **97825** | AX-32-2 | Glass fiber sheets (100 each) | $54.00 |
| **97826** | AX-33 | Sodium tartrate dehydrate test samples (30 x 12 g) | $85.00 |
| **97827** | AX-34 | Halogen lamp (replacement) | $65.00 |
| **97828** | AX-35 | Pan handles (2 each) | $28.00 |
| **97829** | AX-36 | Tweezers (2 each) | $18.00 |
| **97830** | AX-37 | Spoons (2 each) | $22.00 |
| **97831** | AX-38 | Protective in-use covers (5 each) | $43.00 |
| **97832** | AX-39 | Dust cover | $18.00 |
| **97833** | AX-42 | WinCT© Moisture (standard for MS-70 and MX-50, option for MF-50) | $242.00 |
| **97834** | AD-1700-20G | Calibration mass (20 g) | $158.00 |
| **97837** | AX-43 | Temperature calibrator (MS-70 and MX-50 only) | $459.00 |
| **151247** | AD-1688 | Data logger | $311.00 |
| **196128** | AD-8127 | Impact dot matrix, statistical printer, includes cable | $869.00 |





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OHAUS

# Pioneer® PX

Analytical/Precision Balances

Capacity: 85 g-4,200 g  Readability: 0.0001 g-0.1 g



*Analytical*



*Precision*

APPROVALS

CE

## Standard Features

- Easy-to-clean analytical draft shield (select models)
- Up-front level indicator
- Selectable environment settings
- Flexibility of available options
- Removable doors for easy cleaning and access
- Up-front level bubble for easy reference
- Selectable environmental settings
- Integral underweigh hook
- Standard security bracket
- Standard RS-232C
- Security menu lock
- Multiple application modes and units of measure
- Backlight display

## Specifications

| | PX84/E^ | PX124/E^ | PX224/E^ | PX163/E^ | PX323/E^ | PX523/E^ |
|---|---|---|---|---|---|---|
| **Part #** | **191850** | **191851** | **191852** | **191853** | **191854** | **191855** |
| **List Price** | **$1,689.00** | **$1,947.00** | **$2,164.00** | **$976.00** | **$1,142.00** | **$1,445.00** |
| Capacity | 82 g | 120 g | 220 g | 160 g | 320 g | 520 g |
| **Resolution** | **0.1 mg** | **0.1 mg** | **0.1 mg** | **0.001 g** | **0.001 g** | **0.001 g** |
| Weighing Modes | Milligram, Gram, Carat, Ounce, Troy Ounce, Grain, Pennyweight, Momme, Taels, Tical, Tola, Baht, Mesghal, Newton, Custom Unit | | | | | |
| Operating Modes | Weighing, Parts Counting, Percent, Density Determination, Dynamic Weighing | | | | | |
| Repeatability (mg) | 0.1 | | | 1 | | |
| Linearity (mg) | 0.2 | | | 2 | | |
| Stabilization Time | Four seconds | | | Two seconds | | |
| Operating Temperature | 50°F to 86°F (10°C to 30°C) | | | | | |
| **Pan Size** | **3.54 in (90 mm)** | | | **4.72 in (120 mm)** | | |
| Dimensions (W x D x H) | 8.2 x 12.6 x 12.2 in (209 x 321 x 309 mm) | | | | | |
| Weight (Approx.) | 10 lb (4.5 kg) | | | | | |
| Calibration Weight (g) | 50/80 | 50/100 | 100/200 | 100/150 | 200/300 | 200/500 |
| Power | 120 VAC adapter (220-240 VAC adapter by special order), 50/60 Hz | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | | |

*^Weighing Chamber*



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## Specifications

| | PX1602/E | PX2202/E | PX3202/E | PX4202/E | PX2201/E | PX4201/E |
|---|---|---|---|---|---|---|
| **Part #** | **191856** | **191857** | **191858** | **191859** | **191860** | **191861** |
| **List Price** | **$942.00** | **$1,033.00** | **$1,250.00** | **$1,408.00** | **$875.00** | **$1,014.00** |
| Capacity | 1,600 g | 2,200 g | 3,200 g | 4,200 g | 2,200 g | 4,200 g |
| **Resolution** | **0.01 g** | **0.01 g** | **0.01 g** | **0.01 g** | **0.1 g** | **0.1 g** |
| Weighing Modes | Milligram, Gram, Carat, Ounce, Troy Ounce, Grain, Pennyweight, Momme, Taels, Tical, Tola, Baht, Mesghal, Newton, Custom Unit | | | | | |
| Operating Modes | Weighing, Parts Counting, Percent, Density Determination, Dynamic Weighing | | | | | |
| Repeatability (mg) | 10 | | | | 100 | |
| Linearity (mg) | 20 | | | | 200 | |
| Stabilization Time | One second | | | | | |
| Operating Temperature | 50° F to 86° F (10° C to 30° C) | | | | | |
| **Pan Size** | **7.1 in (180 mm)** | | | | | |
| Dimensions (W x D x H) | 8.2 x 12.6 x 3.9 in (209 x 321 x 98 mm) | | | | | |
| Weight (Approx.) | 7.7 lb (3.5 kg) | | | | | |
| Calibration Weight (g) | 1,000/1,500 | 1,000/2,000 | 2,000/3,000 | 2,000/4,000 | 1,000/2,000 | 2,000/4,000 |
| Power | 120 VAC adapter (220-240 VAC adapter by special order) , 50/60 Hz | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **191850** | PX84/E | 82 g x 0.1 mg | $1,689.00 |
| **191851** | PX124/E | 120 g x 0.1 mg | $1,947.00 |
| **191852** | PX224/E | 220 g x 0.1 mg | $2,164.00 |
| **191853** | PX163/E | 160 g x 0.001 g | $976.00 |
| **191854** | PX323/E | 320 g x 0.001 g | $1,142.00 |
| **191855** | PX523/E | 520 g x 0.001 g | $1,445.00 |
| **191856** | PX1602/E | 1,600 g x 0.01 g | $942.00 |
| **191857** | PX2202/E | 2,200 g x 0.01 g | $1,033.00 |
| **191858** | PX3202/E | 3,200 g x 0.01 g | $1,250.00 |
| **191859** | PX4202/E | 4,200 g x 0.01 g | $1,408.00 |
| **191860** | PX2201/E | 2,200 g x 0.1 g | $875.00 |
| **191861** | PX4201/E | 4,200 g x 0.1 g | $1,014.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **67413** | SW12W | TAL software WinWedge® | $515.00 |
| **191875** | 80850043 | Security device for Pioneer | $226.00 |
| **102799** | 80780009 | Forceps, 2.75 in (70 mm) | $24.00 |
| **102800** | 80780010 | Forceps, 3.5 in (89 mm) | $24.00 |
| **33455** | 80850364 | Aluminum scoop, 1.5 in x 2 in (3.8 cm x 5.1 cm), weight 4 g | $29.00 |
| **33454** | 80250048 | Black scoop, aluminum 4 in x 3.5 ft (10.2 cm x 8.9 cm), weight 24 g | $36.00 |
| **33451** | 80850359 | Polypropylene Maxi-Scoop™ 10 in dia. x 2.5 in deep (25.4 cm dia. x 6.4 cm deep) with pouring spout, weight 145 g | $40.00 |
| **97250** | 80250400 | Stainless steel scoop 11.9 in x 7.38 in x 1.69 in | $72.00 |
| **100292** | 80250954 | Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm) | $89.00 |
| **156234** | 46001724 | AC adapter (requires 156235 plug set) | $43.00 |
| **156235** | 46001780 | Universal plug set | $17.00 |
| **191876** | 30472064 | Auxiliary display AD7-RS | $70.00 |
| **191877** | 80253384 | Density kit | $757.00 |
| **191878** | 83034024 | Sinker glass for density determination | $631.00 |
| **191879** | 83021085 | USB interface cable | $188.00 |
| **191880** | 30093334 | Dust cover | $49.00 |
| **191881** | 30372546 | In-use cover | $44.00 |





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OHAUS

# Explorer®

Semi-Micro Balances

Capacity: 220 g Readability: 0.01 mg



## Standard Features

- Intuitive SmarText™ software
- 4 programmable touchless sensors
- Weighing chamber
- Color touchscreen display
- Memory for up to 99 items
- Real-time clock for GLP/GMP data collection
- Audible stability alert
- Autocal automatic calibration
- EX225D/AD and EX225/AD
- Includes ionizer and auto doors

## Specifications

| | EX125D^ | EX125^ | EX225D^ | EX225D/AD^ | EX225/AD^ |
|---|---|---|---|---|---|
| **Part Number** | **171347** | **171348** | **171349** | **171350** | **171351** |
| **List Price** | **$5,562.00** | **$6,941.00** | **$7,099.00** | **$8,799.00** | **$9,622.00** |
| Capacity | 52 g/120 g | 120 g | 120 g/220 g | 120 g/220 g | 220 g |
| **Resolution** | **0.01 mg/0.1 mg** | **0.01 mg** | **0.01 mg/ 0.1 mg** | **0.01 mg/ 0.1 mg** | **0.01 mg** |
| Weighing Units | Gram, Milligram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Mom, Mesghal, Tical, Tola, Baht, Tael, 3 Custom Units | | | | |
| Operating Modes | Weighing, Percent Weighing, Parts Counting, Checkweighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Pipette Adjustment, SQC | | | | |
| Repeatability (20 g) std | ±0.015 mg | | | | |
| Repeatability (100 g) std | 0.1 mg | 0.02 mg | 0.02 mg/0.1 mg | 0.02 mg/0.1 mg | 0.03 mg |
| Linearity (mg) | ±0.1 mg | | | | |
| Stabilization Time | 0.1 mg ≤ 0.3 seconds; 0.01 mg ≤8 second | | | | |
| Min-Weight (typical) | 20.0 mg fine range (USP, u=0.10%, k=2) | | | | |
| Operating Temperature Range | 14° F to 86 °F (-10° C to 30° C) | | | | |
| **Pan Size** | **80 mm** | | | | |
| Dimensions | (W x D x H) 9 x 15.4 x 13.8 in (230 x 393 x 350 mm) | | | | |
| Shipping Weight | 25 lb (12.5 kg) | | | | |
| Calibration | Auto Cal internal calibration | | | | |
| Power Requirements | AC adapter input: 100-240 VAC 0.6A 50-60 Hz | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | |

*^Weighing Chamber*

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **171347** | EX125D | 52 g/120 g x /0.01 mg/0.1 mg | $5,562.00 |
| **171348** | EX125 | 120 g x 0.01 mg | $6,941.00 |
| **171349** | EX225D | 120 g/220 g x 0.01 mg/0.1 mg | $7,099.00 |
| **171350** | EX225D/AD | 120 g/220 g x 0.01 mg/0.1 mg | $8,799.00 |
| **171351** | EX225/AD | 2,200 g x 0.01 g | $9,622.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **67422** | 80253384 | Density determination kit | $656.00 |
| **70406** | 80500525 | RS-232 cable, PC 9-Pin to EX | $188.00 |
| **156234** | - | AC adapter | $43.00 |
| **156235** | - | International plug set | $17.00 |



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Capacity: 120 g-320 g  Readability: 0.0001 g

## Standard Features

- Automatic calibration via AutoCal™
- Communication RS-232C
- On-screen prompts
- Spill channel
- Applications library to store and quickly recall past procedures
- Brilliant backlit, high-resolution dot matrix display with simple navigation windows and menus to guide you through balance functions
- User selectable GLP outputs via RS-232 to meet traceability requirements
- User selectable filter, stability indicator and auto-zero tracking for use in difficult environments
- Five-language operation display text
- Standard underweigh capability
- Protective in-use cover and security bracket




## Options:

- NTEP Certified, Legal for Trade models by special order

## Specifications

| | EX124^ | EX224^* | EX324^* |
|---|---|---|---|
| **Part Number** | **121192** | **121193** | **121194** |
| **List Price** | **$4,151.00** | **$4,613.00** | **$5,421.00** |
| Capacity | 120 g | 220 g | 320 g |
| **Resolution** | **0.0001 g** | | |
| Weighing Units | Gram, Milligram, Kilogram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Momme, Mesghal, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, Baht, 3 Custom Units | | |
| Operating Modes | Weighing, Percent Weighing, Parts Counting, Checkweighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, Pipette Adjustment, SQC | | |
| Repeatability | ±0.0001 g | | |
| Linearity | ±0.0002 g | | |
| Stabilization Time | ≤2 seconds | | ≤3 seconds |
| Operating Temperature Range | 50° F to 86° F (10° C to 30° C) | | |
| Weighing Chamber | (W x D x H) 9.5 x 7.5 x 6.5 in (241.3 x 190.5 x 165.1 mm) | | |
| **Pan Size** | **Ø 3.5 in (90 mm)** | | |
| Display Housing Dimensions | (W x D x H) 7.7 x 3.5 x 6.0 in (195 x 90 x 154 mm) | | |
| Dimensions Base | 9.1 x 13.8 x 15.5 in (230 x 350 x 393 mm) | | |
| Shipping Weight | 21.1 lb (9.6 kg) | | |
| Calibration | AutoCal™ on Δ1.5° C temperature change, 11 hours, and external calibration | | |
| Power Requirements | AC adapter input: 100-240 VAC 0.6A 50-60 Hz | | |
| **Warranty** | **Two-year Limited Warranty** | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | |

*^Weighing Chamber*

** NTEP and Measurement Canada models available by special order*

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **121192** | EX124 | 120 g x 0.0001 g | $4,151.00 |
| **121193** | EX224 | 220 g x 0.0001 g | $4,613.00 |
| **121194** | EX324 | 320 g x 0.0001 g | $5,421.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **67422** | 80253384 | Density determination kit | $656.00 |
| **35263** | 80850043 | Security device for EX | $226.00 |
| **77712** | 80500524 | RS-232 cable, PC 25-Pin to EX | $188.00 |
| **70406** | 80500525 | RS-232 Cable, PC 9-Pin to EX | $188.00 |
| **156234** | 46001724 | Multi-range AC adapter | $43.00 |
| **156235** | 46001780 | International plug set | $17.00 |



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OHAUS

# Explorer®

Precision Balances

Capacity: 220 g-10,200 g  Readability: 0.001 g-0.1 g




## Standard Features

- Capacities from 220 g to 10.2 kg with Readability to 0.001 g
- Large, 5.7 full-color touchscreen display with intuitive set up and application software
- AutoCal™ automatic internal calibration for optimized weighing performance
- 14 application modes, 11 weighing units and 5 display languages for a wide variety of applications
- Four programmable touchless sensors for hands-free operation
- 0.001 g models feature frameless draftshield with anti-static glass, flip-top and large side entry doors on top-mounted bearings

## Options:

- External calibration models

## Specifications

| | EX223^ | EX423^* | EX623^ | EX1103^* | EX2202 | EX4202* | EX6202 | EX10202* | EX6201 | EX10201* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Part Number** | 121195 | 121196 | 121197 | 121198 | 121199 | 121200 | 121201 | 121202 | 121203 | 121204 |
| **List Price** | $2,718.00 | $3,180.00 | $3,889.00 | $4,565.00 | $2,945.00 | $3,385.00 | $3,841.00 | $4,560.00 | $3,190.00 | $3,500.00 |
| Capacity | 220 g | 420 g | 620 g | 1,100 g | 2,200 g | 4,200 g | 6,200 g | 10,200 g | 6,200 g | 10,200 g |
| **Resolution** | 0.001 g | | | | 0.01 g | | | | 0.1 g | |
| Weighing Units | Gram, Milligram, Kilogram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Momme, Mesghal, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, Baht, 3 Custom Units | | | | | | | | | |
| Operating Modes | Weighing, Percent Weighing, Parts Counting, Checkweighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, Pipette Adjustment, SQC | | | | | | | | | |
| Repeatability | ±0.001 g | | | | ±0.01 g | | | | ±0.1 g | |
| Linearity | ±0.002 g | | | | ±0.02 g | | | | ±0.1 g | |
| Stabilization Time | ≤1.5 seconds | | | | ≤1 seconds | | | | | |
| Operating Temperature Range | 50° F to 86° F (10° C to 30° C) | | | | | | | | | |
| Weighing Chamber | (W x D x H) 9.5 x 7.5 x 6.5 in | | | | N/A | | | | | |
| **Pan Size** | Ø 5.1 in (130 mm) | | | | 7.5 x 7.9 in (190 x 200 mm) | | | | | |
| Display Housing Dimensions | (W x D x H) (7.7 x 3.5 x 6.0 in (195 x 90 x 154 mm) | | | | | | | | | |
| Dimensions Base | (W x D x H) 9.1 x 13.8 x 15.5 in (230 x 350 x 393 mm) | | | | (W x D x H) 9.1 x 3.9 x 15.5 in (230 x 98 x 393 mm) | | | | | |
| Shipping Weight | 21.1 lb (9.6 kg) | | | | 15 lb (6.8 kg) | | 16.3 lb (7.4 kg) | | | |
| Calibration | AutoCal™ on Δ1.5° C temperature change, 11 hours, and external calibration | | | | | | | | | |
| Power Requirements | AC adapter input: 100-240 VAC 0.6A 50-60 Hz | | | | | | | | | |
| **Warranty** | Two-year Limited Warranty | | | | | | | | | |
| **Return Policy** | OHAUS Standard Policy - restock fee may apply | | | | | | | | | |

*^Weighing Chamber*
**NTEP models available by special request*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **121195** | EX223^ | 220 g x 0.001 g | $2,718.00 |
| **121196** | EX423^ | 420 g x 0.001 g | $3,180.00 |
| **121197** | EX623^ | 620 g x 0.001 g | $3,889.00 |
| **121198** | EX1103^ | 1,100 g x 0.001 g | $4,565.00 |
| **121199** | EX2202 | 2,200 g x 0.01 g | $2,945.00 |
| **121200** | EX4202 | 4,200 g x 0.01 g | $3,385.00 |
| **121201** | EX6202 | 6,200 g x 0.01 g | $3,841.00 |
| **121202** | EX10202 | 10,200 g x 0.01 g | $4,560.00 |
| **121203** | EX6201 | 6,200 g x 0.1 g | $3,190.00 |
| **121204** | EX10201 | 10,200 g x 0.1 g | $3,500.00 |

*^Weighing Chamber*

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **67422** | 80253384 | Density determination kit (for 410 g capacity and below) | $656.00 |
| **35263** | 80850043 | Security device for EX | $226.00 |
| **77712** | 80500524 | RS-232 cable, PC 25-pin to EX | $188.00 |
| **70406** | 80500525 | RS-232 cable, PC nine-pin to EX | $188.00 |
| **156234** | 46001724 | Multi-range AC adapter | $43.00 |
| **156235** | 46001780 | International plug set | $17.00 |





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OHAUS

# Explorer®

## High Capacity Balances

Capacity: 12,000 g-35,000 g  Readability: 0.1 g




### APPROVALS

## Standard Features

- Touchless IR (infrared) sensors minimize keypad use
- Program IR sensor to control operations including print, tare and other selectable functions
- Color VGA, 5.7-in display with icons for simple menu navigation
- Multiple application modes designed for versatility
- AutoCal™ Calibration
- Robust IP 54 die-cast metal bottom housing with stainless steel pan
- Integral weigh below hook
- ENERGY STAR qualified adapter

## Specifications

| | Ex12001 | Ex24001 | Ex35001 |
|---|---|---|---|
| **Part #** | **157235** | **157236** | **157237** |
| **List Price** | **$3,872.00** | **$4,717.00** | **$5,540.00** |
| Capacity | 12,000 g | 24,000 g | 35,000 g |
| **Resolution** | **0.1 g** | | |
| Weighing Modes | Gram, Kilogram, Carat, Ounce, Troy Ounce, Pound,, Pennyweight, Mommes, Grain, Tical, Tola, Newton, Mesghal, 3 Custom Units | | |
| Operating Modes | Weighing, Counting, Animal/Dynamic Weighing, Checkweighing, Percent Weighing, Filling, Parts Counting, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, SQC | | |
| Repeatability | ±0.1 g | | |
| Linearity | ±0.2 g | | |
| Stabilization Time | ≤1 seconds | | |
| Operating Temperature | 14° F to 140° F (-10° C to 60° C) | | |
| **Pan Size** | **14.84 x 12.24 in (377 x 311 mm)** | | |
| Display Housing Dimensions | (W x D x H) 7.7 x 3.5 x 6.0 in (195 x 90 x 154 mm) | | |
| Dimensions Base | (W x D x H) 14.84 x 4.72 x 17.44 in (377 x 120 x 443 mm) | | |
| Weight (Approx.) | 25 lb (12.5 kg) | | |
| Calibration | Auto Cal internal calibration | | |
| Power | AC adapter input: 100-240 VAC 0.6A 50-60 Hz | | |
| **Warranty** | **Two-year Limited Warranty** | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | |
| Approvals | Measurement Canada AM-5957 | | |



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **157235** | EX12001 | 12,000 g x 0.1 g | $3,872.00 |
| **157236** | EX24001 | 24,000 g x 0.1 g | $4,717.00 |
| **157237** | EX35001 | 35,000 g x 0.1 g | $5,540.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **157238** | 30078082 | Tower mount display | $149.00 |
| **77712** | 80500524 | RS-232 cable, PC 25-pin to EX | $188.00 |
| **70406** | 80500525 | RS-232 cable, PC nine-pin to EX | $188.00 |
| **156234** | 46001724 | Multi-range AC adapter | $43.00 |
| **156235** | 46001780 | International plug set | $17.00 |





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OHAUS

# Adventurer®

Analytical/Precision Balances

Capacity: 120 g-8,200 g  Readability: 0.0001 g-0.1 g



Analytical



Precision

## APPROVALS

## Standard Features

- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Space-saving, top-mounted draft shield on analytical models
- Real time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature
- AutoCal™ automatic calibration

## Specifications

| | AX124 ^ | AX224 ^ | AX324^ | AX223^ | AX423^ | AX523^ | AX622 | AX1502 |
|---|---|---|---|---|---|---|---|---|
| **Part Number** | 164622 | 164623 | 164625 | 164626 | 164628 | 164630 | 164633 | 164635 |
| **List Price** | $2,996.00 | $3,305.00 | $3,616.00 | $1,835.00 | $2,221.00 | $2,430.00 | $1,395.00 | $1,705.00 |
| **NTEP* Part Number** | N/A | 164624 | N/A | 164627 | 164629 | 164632 | 164634 | 164636 |
| **NTEP* List Price** | N/A | $3,511.00 | N/A | $1,601.00 | $1,910.00 | $2,120.00 | $1,240.00 | $1,395.00 |
| NTEP Certified Approvals | - | I (0.001 g) AM-5957, CC 14-082 | - | II (0.01 g) AM-5957, CC 14-082 | II (0.01 g) AM-5957, CC 14-082 | II (0.01g) AM-5957, CC 14-082 | II (0.1g) AM-5957, CC 14-082 | |
| Capacity (g) | 120 g | 220 g | 320 g | 220 g | 420 g | 520 g | 620 g | 1,520 g |
| **Resolution (g)** | 0.0001 g | 0.0001 g | 0.0001 g | 0.001 g | 0.001 g | 0.001 g | 0.01 g | 0.01 g |
| Weighing Modes | Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Hong Kong Tael, Singapore Tael, Taiwan Tael, Momme, Tical, Baht, Mesghal, Tola, Custom | | | | | | | |
| Operating Modes | Counting, Weighing, Dynamic Weighing, Checkweighing, Percent Weighing, Totalization, Display Hold, Density Determination, Formulation | | | | | | | |
| Repeatability | 1 mg | | | 0.001 g | | | | |
| Linearity | 0.2 mg | | | | 0.002 mg | | | |
| Operating Temperature | 10° C to 30° C (50° F to 86° F) | | | | | | | |
| **Pan Size** | 3.5 in (90 mm) | | | 5.1 in (130 mm) | | | 6.9 x 7.7 in (175 x 195 mm) | |
| Dimensions Base Housing | (W x D x H) 13.93 x 13.39 x 9.05 in (354 x 340 x 230 mm) | | | | | | (W x D x H) 13.93 x 3.94 x 9.05 in (354 x 100 x 230 mm) | |
| Weight (Approx.) | 17.2 lb (7.8 kg) | | | 12.8 lb (5.8 kg) | | | 14.4 lb (6.5 kg) | |
| Calibration Weight (g) | 100 | 200 | 300 | 200 | 400 | 500 | 600 | 1500 |
| Power | 100 - 240 VAC, 0.3A, 50-60 HZ AC adapter | | | | | | | |
| **Warranty** | Two-year Limited Warranty | | | | | | | |

** NTEP Certified models have reduced resolution*

*^Weighing Chamber*



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## Specifications

| | AX2202 | AX4202 | AX5202 | AX4201 | AX8201 |
|---|---|---|---|---|---|
| **Part Number** | **164637** | **164639** | **164641** | **164642** | **164643** |
| **List Price** | **$1,811.00** | **$2,276.00** | **$2,580.00** | **$1,501.00** | **$1,756.00** |
| **NTEP Part Number** | **164638** | **164640** | **N/A** | **N/A** | **164644** |
| **NTEP List Price** | **$1,550.00** | **$1,965.00** | **N/A** | **N/A** | **$1,550.00** |
| Capacity (g) | 2,200 g | 4,200 g | 5,200 g | 4,200 g | 8,200 g |
| **Resolution (g)** | **0.01 g** | **0.01 g** | **0.01 g** | **0.1 g** | **0.1 g** |
| NTEP Certified Class | II (0.1 g) | II (0.1 g) | - | - | II (1 g) |
| Weighing Modes | Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Hong Kong Tael, Singapore Tael, Taiwan Tael, Momme, Tical, Baht, Mesghal, Tola, Custom | | | | |
| Operating Modes | Weighing, Dynamic Weighing, Checkweighing, Percent Weighing, Totalization, Display Hold, Density Determination, Formulation | | | | |
| Repeatability | 0.01 g | | | 0.1 g | 0.1 g |
| Linearity | 0.002 mg | | | 0.02 mg | 0.02 mg |
| Operating Temperature | 10° C to 30° C (50° F to 86° F) | | | | |
| **Pan Size** | **175 x 195 mm (6.9 x 7.7 in)** | | | | |
| Dimensions Base Housing | (W x D x H) 13.93 x 3.94 x 9.05 in (354 x 100 x 230 mm ) | | | | |
| Weight (Approx.) | 14.4 lb (6.5 kg) | | | | 12.6 lb (5.7 kg) |
| Calibration Weight (g) | 2,000 | 4,000 | 5,000 | 4,000 | 8,000 |
| Power | 100-240 VAC, 0.3A, 50-60 HZ AC adapter | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | |

** NTEP Certified models have reduced resolution*

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **164622** | AX124 | 120 g x 0.0001 g | $2,996.00 |
| **164623** | AX224 | 220 g x 0.0001 g | $3,305.00 |
| **164624** | AX224 N | 220 g x 0.001 g | $3,511.00 |
| **164625** | AX324 | 320 g x 0.0001 g | $3,616.00 |
| **164626** | AX223 | 320 g x 0.001 g | $1,835.00 |
| **164627** | AX223 N/E | 220 g x 0.001 g | $1,601.00 |
| **164628** | AX423 | 420 g x 0.001 g | $2,221.00 |
| **164629** | AX423 N/E | 420 g x 0.01 g | $1,910.00 |
| **164630** | AX523 | 520 g x 0.001 g | $2,430.00 |
| **164632** | AX523 N/E | 520 g x 0.01 g | $2,120.00 |
| **164633** | AX622 | 620 g x 0.001 g | $1,395.00 |
| **164634** | AX622 N/E | 620 g x 0.01 g | $1,240.00 |
| **164635** | AX1502 | 1,520 g x 0.01 g | $1,705.00 |
| **164636** | AX1502 N/E | 1,520 g x 0.1 g | $1,395.00 |
| **164637** | AX2202 | 2,200 g x 0.01 g | $1,811.00 |
| **164638** | AX2202 N/E | 2,200 g x 0.1 g | $1,550.00 |
| **164639** | AX4202 | 4,200 g x 0.01 g | $2,276.00 |
| **164640** | AX4202 N/E | 4,200 g x 0.1 g | $1,965.00 |
| **164641** | AX5202 | 5,200 g x 0.01 g | $2,580.00 |
| **164642** | AX4201 | 4,200 g x 0.1 g | $1,501.00 |
| **164643** | AX8201 | 8,200 g x 0.1 g | $1,756.00 |
| **164644** | AX8201 N/E | 8,200 g x 1 g | $1,550.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **67422** | 80253384 | Density determination kit | $656.00 |
| **191879** | 83021085 | USB cable, Type A to B | $188.00 |
| **191875** | 80850043 | Security device (laptop lock) | $226.00 |
| **77712** | 80500524 | 25-pin RS-232 cable (PC) | $188.00 |
| **70406** | 80500525 | Nine-pin RS-232 cable (PC) | $188.00 |



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OHAUS

# MB Series

Moisture Analyzer

Capacity: 23 g-45 g  Readability: 0.005 g-0.01 g




*MB120*

APPROVALS

c UL us LISTED

## Standard Features

- Fast halogen heating element provides uniform infrared heating and durability for extended use
- Superior weighing performance with readability up to 0.001 g, 0.01% moisture
- Powerful software for simple operation
- Large, backlit liquid crystal display (LCD) for easy viewing (MB23, MB27)
- Bright, easy-to-read touchscreen display (MB90, MB120)
- GLP/GMP compliant format when printed results are required
- RS-232 port for easy communication with printer or computer
- Multi-language display text (English, Spanish, French)

## Specifications

| | MB23 | MB27 | MB90 | MB120 |
|---|---|---|---|---|
| **Part #** | **109522** | **178254** | **178255** | **178256** |
| **List Price** | **$2,925.00** | **$2,925.00** | **$3,919.00** | **$4,977.00** |
| Capacity | 110 g | 90 g | 90 g | 120 g |
| **Resolution** | **0.01 g** | **0.001 g** | **0.001 g** | **0.001 g** |
| Repeatability | 3 g sample-0.3%; 10 g sample-0.1% | 3 g sample-0.2%; 10 g sample-0.05% | 3 g sample-0.18%; 10 g sample-0.02% | 3 g sample-0.05%; 10 g sample-0.015% |
| Moisture Range | 0.1% to 100% | 0.05% to 100% | 0.01% to 100% | 0.01% to 100% (0.01% to 100% for regain mode) |
| Heater Type | Infrared (no glass) | Halogen | | |
| Timer | 1-99 minutes, 30 second increments to 60 min | | 1-120 min in 30 second to 60 min increments, 1 min increments from 60-120 min | 1-120 min in 10 second increments |
| Temperature Settings | 50° C to 160° C x 5° C (increments) | | 40° C to 200° C x 1° C | 40° C to 230° C x 1° C |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | 50° F to 104° F (10° C to 40° C) | |
| **Pan Size** | **Ø 9 cm (3.5 in)** | | | |
| Dimensions | (W x D x H) 7.5 x 6.0 x 14 in (191 x 152 x 356 mm) | (W x D x H) 6.5 x 5 x 11 in (165 x 127 x 279 mm) | (W x D x H) 8.3 x 7.7 x 14 in (211 x 196 x 356 mm) | |
| Est. Ship Weight | 14 lb (6.3 kg) | | | |
| Power | 120 V AC Adapter | | | |
| **Warranty** | **Two-year Limited Warranty** | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | |



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **109522** | MB23 | 110 g x 0.01 g (0.1% IR) | $2,925.00 |
| **178254** | MB27 | 90 g x 0.001 g (0.05% Halogen heat) | $2,925.00 |
| **178255** | MB90 | 90 g x 0.001 g (0.02% Halogen heat) | $3,919.00 |
| **178256** | MB120 | 120 g x 0.001 g (0.015% Halogen heat) | $4,977.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **70401** | 11113857 | Temperature calibration kit | $567.00 |
| **70402** | 80850087 | Pads, glass fiber, 200/box | $100.00 |
| **70403** | 80850086 | Sample pans, 80/box, 90 mm diameter | $64.00 |
| **70404** | 80850088 | Reusable sample pans, 3/box | $197.00 |
| **70405** | 80850085 | In-use cover | $71.00 |
| **70406** | 80500525 | Cable, nine-pin serial extension | $188.00 |
| **191875** | 80850043 | Security device | $226.00 |
| **67413** | SW12W | WinWedge® TAL Software | $515.00 |





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OHAUS

# Scout®

## Portable Electronic Balances

Capacity: 120-8,200 g  Readability: 0.001-1 g



*SPX Round Pan*



*STX Rectangular Pan*

## Standard Features

- ABS housing and stainless steel pan
- Display type (SPX): backlit LCD, six-digit, seven-segment with white LED backlight
- Display type (STX): full-color touchscreen WQVGA graphic LCD
- Battery or AC operation (AC adaptor included)

## Specifications

| LCD Model | SPX123^ | SPX223^ | SPX222 | SPX422 | SPX622 | SPX1202 |
|---|---|---|---|---|---|---|
| **Part #** | **171984** | **171985** | **171986** | **171987** | **171988** | **171989** |
| **List Price** | **$680.00** | **$761.00** | **$499.00** | **$699.00** | **$817.00** | **$932.00** |
| Touchscreen Model | STX123^ | STX223^ | STX222 | STX422 | STX622 | STX1202 |
| **Part #** | **171996** | **171998** | **171999** | **172000** | **172001** | **172002** |
| **List Price** | **$776.00** | **$868.00** | **$568.00** | **$796.00** | **$932.00** | **$1,064.00** |
| Capacity | 120 g | 220 g | 220 g | 420 g | 620 g | 1,200 g |
| **Resolution** | **0.001 g** | **0.001 g** | **0.01 g** | **0.01 g** | **0.01 g** | **0.01 g** |
| Unit of Measure | Gram, Kilogram, Carat, Newton, Ounce, Troy Ounce, Pennyweight, Pound, Pound/Ounce, Grain, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, STX Models: Miligram and Customer Unit | | | | | |
| Operating Modes | Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold, Only available on STX models: Animal/Dynamic Weighing, Density Determination, Mole Weighing | | | | | |
| Repeatability | 2d | 2d | 1d | 1d | 1d | 2d |
| Linearity | 0.003 g | 0.001 g | 0.01 g | 0.01 g | 0.01 g | 0.01 g |
| Stabilization Time | 1 second | 1 second | 1 second | 1 second | 1 second | 1 second |
| Operating Temperature | 50° F to 104° F / 10° C to 40° C; 10% to 85% at 31° C, decreasing linearly to 50% at 40° C (non-condensing) | | | | | |
| Typical Battery Life (STX) | 7 hours | | | | | |
| Typical Battery Life (SPX) | 80 hours | | 120 hours | 80 hours | | |
| **Pan Size** | **Ø 3.7 in (93 mm)** | | **Ø 4.7 in (120 mm)** | | | **6.7 x 5.5 in (170 x 140 mm)** |
| Dimensions | (W x D x H) 8 x 8.7 x 4.1 in (202 x 222 x 103 mm) | | (W x D x H) 8 x 8.8 x 2.1 in (202 x 224 x 54 mm) | | | |
| Weight (Approx.) | 1 kg | | | | | |
| Est. Ship Weight | 2.8 lb (1.24 kg) | | | | | |
| Calibration Weight | 100 g | 200 g | 200 g | 400 g | 600 g | 1,000 g |
| Power | Multi-range, multi-plug AC power or battery (uses 4-AA batteries not included) | | | | | |
| **Warranty** | **One-year Limited Warranty** | | | | | |
| **Return Policy** | **Ohaus standard policy - restock fee may apply** | | | | | |

*^Weighing Chamber*



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## Specifications

| LCD Model | SPX2202 | SPX421 | SPX621 | SPX2201 | SPX6201 | SPX8200 |
|---|---|---|---|---|---|---|
| **Part #** | **171990** | **171991** | **171992** | **171993** | **171994** | **171995** |
| **List Price** | **$1,049.00** | **$276.00** | **$408.00** | **$513.00** | **$846.00** | **$426.00** |
| Touchscreen Model | STX2202 | STX421 | STX621 | STX2201 | STX6201 | STX8200 |
| **Part #** | **172003** | **172004** | **172005** | **172006** | **172007** | **172008** |
| **List Price** | **$1,196.00** | **$323.00** | **$478.00** | **$603.00** | **$966.00** | **$500.00** |
| Capacity | 2,200 g | 420 g | 620 g | 2,200 g | 6,200 g | 8,200 g |
| **Resolution** | **0.01 g** | **0.1 g** | **0.1 g** | **0.1 g** | **0.1 g** | **1 g** |
| Unit of Measure | Gram, Kilogram, Carat, Newton, Ounce, Troy Ounce, Pennyweight, Pound, Pound/Ounce, Grain, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, STX Models: Miligram and Customer Unit | | | | | |
| Operating Modes | Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Display Hold, Only available on STX models: Animal/Dynamic Weighing, Density Determination | | | | | |
| Repeatability | 2d | 1d | 1d | 1d | 1d | 1d |
| Linearity | 0.01 g | 0.1 g | 0.1 g | 0.1 g | 0.2 g | 1 g |
| Stabilization Time | 1 second | 1 second | 1 second | 1 second | 1 second | 1 second |
| Operating Temperature | 50° F to 104° F / 10° C to 40° C; 10% to 85% at 31° C, decreasing linearly to 50% at 40° C (non-condensing) | | | | | |
| Typical Battery Life (STX) | 7 hours | | | | | |
| Typical Battery Life (SPX) | 80 hours | 120 hours | 120 hours | 120 hours | 80 hours | 120 hours |
| **Pan Size** | **6.7 x 5.5 in (170 x 140 mm)** | **Ø 4.7 in (120 mm)** | **6.7 x 5.5 in (170 x 140 mm)** | | | |
| Dimensions | (W x D x H) 8 x 8.8 x 2.1 in (202 x 224 x 54 mm) | | | | | |
| Weight (Approx.) | 1 kg | | | | | |
| Est. Ship Weight | 2.8 lb (1.24 kg) | | | | | |
| Calibration Weight | 2,000 g | 400 g | 600 g | 2,000 g | 6,000 g | 8,000 g |
| Power | Multi-range, multi-plug AC power or battery (uses 4-AA batteries not included) | | | | | |
| **Warranty** | **One-year Limited Warranty** | | | | | |
| **Return Policy** | **Ohaus standard policy - restock fee may apply** | | | | | |





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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **171984** | SPX123 | 120 g x 0.001 g | $680.00 |
| **171985** | SPX223 | 220 g x 0.001 g | $761.00 |
| **171986** | SPX222 | 220 g x 0.01 g | $499.00 |
| **171987** | SPX422 | 420 g x 0.01 g | $699.00 |
| **171988** | SPX622 | 620 g x 0.01 g | $817.00 |
| **171989** | SPX1202 | 1,200 g x 0.01 g | $932.00 |
| **171990** | SPX2202 | 2,200 g x 0.01 g | $1,049.00 |
| **171991** | SPX421 | 420 g x 0.1 g | $276.00 |
| **171992** | SPX621 | 620 g x 0.1 g | $408.00 |
| **171993** | SPX2201 | 2,200 g x 0.1 g | $513.00 |
| **171994** | SPX6201 | 6,200 g x 0.1 g | $846.00 |
| **171995** | SPX8200 | 8,200 g x 1 g | $426.00 |
| **171996** | STX123 | 120 g x 0.001 g | $776.00 |
| **171998** | STX223 | 220 g x 0.001 g | $868.00 |
| **171999** | STX222 | 220 g x 0.01 g | $568.00 |
| **172000** | STX422 | 420 g x 0.01 g | $796.00 |
| **172001** | STX622 | 620 g x 0.01 g | $932.00 |
| **172002** | STX1202 | 1,200 g x 0.01 g | $1,064.00 |
| **172003** | STX2202 | 2,200 g x 0.01 g | $1,196.00 |
| **172004** | STX421 | 420 g x 0.1 g | $323.00 |
| **172005** | STX621 | 620 g x 0.1 g | $478.00 |
| **172006** | STX2201 | 2,200 g x 0.1 g | $603.00 |
| **172007** | STX6201 | 6,200 g x 0.1 g | $966.00 |
| **172008** | STX8200 | 8,200 g x 1 g | $500.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **67413** | SW12W | WinWedge® TAL Software | $515.00 |
| **104770** | - | Paper for PN 104767 | $17.00 |
| **104771** | - | Ribbon for PN 104767 | $50.00 |
| **181878** | 30330714 | Power supply, US plug, 110/220 VAC | $24.00 |





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Capacity: 64-6,200 g  Readability: 0.001-0.1 g

## Standard Features

- Automatic Zero Tracking (AZT)
- Integral LCD display
- AC/battery power
- Auto-off feature
- Programmable tare
- Transportation lock
- Menu/calibration lockout switch

## APPROVALS



*SJX323N/E*



*SJX622N/E*



*SJX1502N/E and SJX6201N/E*

## Specifications

| | SJX323N/E | | SJX622N/E | | SJX1502N/E | | SJX6201N/E | |
|---|---|---|---|---|---|---|---|---|
| **Part #** | **196652** | | **196653** | | **196654** | | **196655** | |
| **List Price** | **$656.00** | | **$820.00** | | **$954.00** | | **$846.00** | |
| **Approval** | **Legal for trade** | **Non-legal for trade** | **Legal for trade** | **Non-legal for trade** | **Legal for trade** | **Non-legal for trade** | **Legal for trade** | **Non-legal for trade** |
| Capacity | 64 g | 64 g | 620 g | 620 g | 1,500 g | 1,500 g | 6,200 g | 6,200 g |
| **Readability** | **0.001 g** | **0.001 g** | **0.1 g** | **0.01 g** | **0.01 g** | **0.01 g** | **1 g** | **0.1 g** |
| Verification Interval e | 0.01 g | — | 0.1 g | — | 0.1 g | — | 1 g | — |
| Class | II | — | III | — | II | — | III | — |
| Draftshield | Yes | | No | | | | | |
| Unit of Measure | Gram, Kilogram, Carat, Ounce, Troy Ounce, Pennyweight, Pound, Pound/Ounce, and Grain | | | | | | | |
| Operating Modes | Weighing, Parts Counting, Percent Weighing, Checkweighing, Totalization, Density Determination, Display Hold | | | | | | | |
| Typical Battery Life | 80 hours | | | | | | | |
| Power Requirement | AC adapter (included) or 4 AA batteries (not included) | | | | | | | |
| Operating Temperature | Class II: 10° C to 30° C / 50° F to 86° F at 10% to 80% relative humidity, non-condensing<br>Class III: 10° C to 40° C / 50° F to 104° F at 10% to 80% relative humidity, non-condensing | | | | | | | |
| **Pan Size** | **Ø 3.7 in (Ø 93 mm)** | | **Ø 4.7 in (Ø 120 mm)** | | **6.7 x 5.5 in (170 x 140 mm)** | | | |
| Dimensions | (W x D x H) 8 x 8.7 x 4.1 in (202 x 222 x 103 mm) | | (W x D x H) 8 x 8.8 x 2.1 in (202 x 224 x 54 mm) | | | | | |
| Est. Ship Weight | 3.3 lb (1.5 kg) | | | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | | | |

*^Weighing Chamber*

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **196652** | SJX323N/E | 320 ct x 0.01 ct | $656.00 |
| **196653** | SJX622N/E | 620 g x 0.1 g | $820.00 |
| **196654** | SJX1502N/E | 1,500 g x 0.01 g | $954.00 |
| **196655** | SJX6201N/E | 6,200 g x 1 g | $846.00 |



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OHAUS

# Compass CX Series

Compact Scale

Capacity: 220 g-5,200 g  Readability: 0.1 g-1 g



## Standard Features

- Superior RF protection
- Reliable, stable results
- CE listed and FCC Class B Part 15 operation
- Large, removable stainless steel weighing platform
- Low-profile design
- Standard AC adapter
- Easy operation
- Low-battery indicator
- Auto shut-off feature
- Overload protection
- Push-button calibration

## Specifications

| | CX221 | CX621 | CX1201 | CX2200 | CX5200 | CX221P | CX2200P | CX5200P |
|---|---|---|---|---|---|---|---|---|
| **Part #** | **195245** | **195246** | **195247** | **195248** | **195249** | **195250** | **195251** | **195252** |
| **List Price** | **$163.00** | **$169.00** | **$179.00** | **$163.00** | **$193.00** | **$176.00** | **$176.00** | **$193.00** |
| Capacity | 220 g | 620 g | 1,200 g | 2,200 g | 5,200 g | 220 g | 2,200 g | 5,200 g |
| **Resolution** | **0.1 g** | **0.1 g** | **0.1 g** | **1 g** | **1 g** | **0.1 g** | **1 g** | **1 g** |
| Weighing Modes | Grams, Pound/Ounce and Newton | | | 4 lb:6.55 oz x 0.05 oz | 11 lb:0.4 oz x 0.1 oz | 0 lb:7 oz x 0.01 oz | 4 lb:13.6 oz x 0.05 oz | 11 lb:7.42 oz x 0.05 oz |
| Repeatability | 0.1 g | 0.1 g | 0.1 g | 1 g | 1 g | 0.1 g | 1 g | 1 g |
| Linearity | ±0.1 g | ±0.1 g | ±0.1 g | ±1 g | ±1 g | ±0.1 g | ±1 g | ±1 g |
| Stabilization Time | 1.5 seconds | | 2 seconds | 1.5 seconds | | | | |
| Operating Temperature | 64° F to 77° F (18° C to 25° C) | | | | | | | |
| **Pan Size** | **5 x 5.6 in (12.7 x 14.2 cm)** | | | | | | | |
| Dimensions | (W x D x H) 5.3 x 7.9 x 1.6 in (13.5 x 20.1 x 4.1 cm) | | | | | | | |
| Weight (Approx.) | 0.91 lb (0.47 kg) | | | | | | | |
| Power | 3 AA alkaline batteries (included) or AC adapter (not included) | | | | | | | |
| Battery Life | 1,000 hours | | | | | | | |
| **Warranty** | **One-year Limited Warranty** | | | | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195245** | CX221 | 220 g x 0.1 g | $163.00 |
| **195246** | CX621 | 620 g x 0.1 g | $169.00 |
| **195247** | CX1201 | 1,200 g x 1 g | $179.00 |
| **195248** | CX2200 | 2,200 g x 1 g | $163.00 |
| **195249** | CX5200 | 5,200 g x 1 g | $193.00 |
| **195250** | CX221P | 220 g x 0.1 g | $176.00 |
| **195251** | CX2200P | 2,200 g x 1 g | $176.00 |
| **195252** | CX5200P | 5,200 g x 1 g | $193.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195254** | 30467763 | Carrying case | $64.00 |
| **181878** | 30330714 | US power adapter | $24.00 |
| **195256** | 30333865 | AU power adapter | $25.00 |
| **195257** | 30333866 | EU power adapter | $25.00 |
| **195258** | 30333867 | UK power adapter | $25.00 |
| **70434** | 80850075 | Bowl, 1,050 mL | $53.00 |



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# Compass CR Series

Compact Scale

Capacity: 220 g-5,200 g  Readability: 0.1 g-1 g

## Standard Features

- Basic weighing with simple 2-button keypad
- Superior RF protection
- Large weighing platform
- Stackable design with integrated shipping lock
- Low battery indicator
- Auto shut-off feature
- Mechanical and software overload protection
- External push-button calibration
- Battery (standard) or AC adapter (optional) operation



## Specifications

| | CR221 | CR621 | CR2200 | CR5200 |
|---|---|---|---|---|
| **Part #** | **195265** | **195266** | **195267** | **195268** |
| **List Price** | **$113.00** | **$118.00** | **$113.00** | **$156.00** |
| Capacity | 220 g | 620 g | 2,200 g | 5,200 g |
| **Resolution** | **0.1 g** | **0.1 g** | **1 g** | **1 g** |
| Weighing Modes | Grams, Pound/Ounces, Pennyweight, Troy Ounces | | | |
| Repeatability | 0.1 g | | 1 g | 1 g |
| Linearity | ± 0.1 g | | ± 1 g | ± 1 g |
| Stabilization Time | 3 seconds | | | |
| Operating Temperature | 65° F to 77° F (18° C to 25° C) | | | |
| **Pan Size** | **5 x 5.2 in (12.7 x 13.2 cm)** | | | |
| Dimensions | (W x D x H) 5.5 x 8.1 x 1.6 in (14 x 20.6 x 4.1 cm) | | | |
| Weight (Approx.) | 0.875 lb (0.4 kg) | | | |
| Power | 3 AA batteries (included) (AC adapter is optional) | | | |
| Battery Life | 300 hours | | | |
| **Warranty** | **One-year Limited Warranty** | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195265** | CR221 | 220 g x 0.1 g | $113.00 |
| **195266** | CR621 | 620 g x 0.1 g | $118.00 |
| **195267** | CR2200 | 2,200 g x 1.0 g | $113.00 |
| **195268** | CR5200 | 5,200 g x 1.0 g | $156.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195269** | 30467987 | Power adapter | $35.00 |
| **195254** | 30467763 | Carrying case | $64.00 |
| **70434** | 80850075 | Bowl, 1,050 mL | $53.00 |





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# HH Series

Handheld Compact Scale

Capacity: 60 g-320 g  Readability: 0.1 g-0.2 g



## Standard Features

- Weighing modes: g (HH120D); g, oz, dwt, ozt (HH120, HH320)
- Large, 0.4 in (10.16 mm), high-contrast backlit liquid crystal display (LCD)
- Low-battery indicator
- Overload and underload indicators
- Auto shut-off
- Protective snap-on cover
- Rugged plastic construction
- HH120/320 Options:
- Push-button luminescent display and soft tactile feedback keypad with protective cover

## HH120/320 Additional Features

- Push-button luminescent display and soft tactile feedback keypad with protective cover

## Specifications

| | HH120D | HH120 | HH320 |
|---|---|---|---|
| **Part #** | **52541** | **64055** | **52540** |
| **List Price** | **$187.00** | **$222.00** | **$277.00** |
| Capacity | 60 g/120 g | 120 g | 320 g |
| **Resolution** | **0.1 g/0.2 g** | **0.1 g** | **0.1 g** |
| Weighing Modes | - | Grams, Ounces, Pennyweight, Troy Ounces | |
| Maximum overload | 150% of capacity | | |
| Linearity | ±0.1 g/±0.2 g | ±0.1 g | ±0.2 g |
| Stabilization Time | 3 seconds | | |
| **Pan Size** | **3.25 x 3.2 in (82.55 x 76.2 mm)** | | |
| Dimensions | (W x D x H) 5.35 x 3.25 x 0.8 in (13.6 x 8.5 x 2 cm) | | |
| Weight (Approx.) | 0.34 lb (0.16 kg) | | |
| Calibration | Factory set | Calibration with keypad | |
| Auto Shutoff | Two minutes no activity | | |
| Power | Battery operated | | |
| **Warranty** | **One-year Limited Warranty** | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **52541** | HH120D | 60 g/120 g x 0.1 g/0.2 g | $187.00 |
| **64055** | HH120 | 120 g x 0.1 g | $222.00 |
| **52540** | HH320 | 320 g x 0.1 g | $277.00 |



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Capacity: 100 g-500 g  Readability: 0.01 g-0.1 g

## Standard Features

- Smaller size than most pocket scales allows for a comfortable fit in your pocket
- Clamshell case designs and protects scale during transport
- Weighs in g, oz, ct and grain
- Bright blue backlit LCD display



## Specifications

| | YA102 | YA302 |
|---|---|---|
| **Part #** | **103106** | **103107** |
| **List Price** | **$110.00** | **$95.00** |
| Capacity | 100 g | 300 g |
| **Resolution** | **0.01 g** | **0.05 g** |
| Weighing Modes | Grams, Ounces, Carats and Grains | |
| Calibration | External | |
| Auto Shutoff | 10 to 30 seconds | |
| Power | 2 AAA batteries | |
| **Warranty** | **One-year Limited Warranty** | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **103106** | YA102 | 100 g x 0.01 g | $110.00 |
| **103107** | YA302 | 300 g x 0.05 g | $95.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33455** | 5076-00 | Aluminum scoop, 1.5 x 2 in (3.8 x 5.1 cm), weight 4 g | $29.00 |
| **33454** | 4590-30 | Black scoop, aluminum 4 x 3.5 in (10.2 x 8.9 cm), weight 24 g | $36.00 |





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OHAUS

# Triple Beam

## Mechanical Balance

Capacity: 610g-2,610g  Readability: 0.1g



TP26II



*Triple Beam Pro with Attachment Weight*

## Standard Features

- Notched and tiered beams for easy reading
- Positive poise positioning for repeatability
- Magnetically damped
- Zero adjust compensator
- Choice of five weighing platforms: Stainless steel pan, polypropylene scoop, stainless steel scoop, aluminum animal box, stainless steel plate
- Optional tare beam vernier dial

## Specifications

| | 710-00 | 710-T0 | 720-00 | 750-S0 | 760-00 | 720-S0 |
|---|---|---|---|---|---|---|
| **Part #** | **33350** | **33351** | **33352** | **33355** | **33357** | **33353** |
| **List Price** | **$281.00** | **$343.00** | **$331.00** | **$155.00** | **$290.00** | **$384.00** |
| Capacity | 610g | 610g | 610g | 610g | 610g | 610g |
| **Resolution** | **0.1g** | **0.1g** | **0.1g** | **0.1g** | **0.1g** | **0.1g** |
| Tare Range | - | 225g | - | - | 225g | - |
| Pan Design | Stainless steel pan | Stainless steel pan with tare | Polypropylene scoop | Stainless steel plate | Stainless steel plate with tare | Stainless steel scoop |
| **Pan Size** | **Ø 6in (152.4mm)** | | **-** | **Ø 6in (152.4mm)** | | **-** |
| Dimensions | (W x D x H) 18 x 12 x 9in (457.2 x 304.8 x 228.6mm) | | | | | |
| Weight (Approx.) | 8lb | | | | | |
| Calibration | Front beam 10 x 0.1g, Middle beam 500 x 100g, Rear beam 100 x 10g | | | | | |
| **Warranty** | **Five-year Limited Warranty** | | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | | |

## Specifications

| | 730-00 | 1650-00* | 1650-W0* | 1610-00* | TP2611 |
|---|---|---|---|---|---|
| **Part #** | **33354** | **33361** | **33362** | **33360** | **103109** |
| **List Price** | **$414.00** | **$363.00** | **$420.00** | **$420.00** | **$223.00** |
| Capacity | 610g | 610g | 2,610g | 610g | 2,610g |
| **Resolution** | **0.1g** | **0.1g** | **0.1g** | **0.1g** | **0.1g** |
| Tare Range | - | 225g | 225g | 225g | - |
| Pan Design | Aluminum weight boat | Stainless steel plate with tare | | | Stainless steel pan with rod and clamp |
| **Pan Size** | **-** | **6in (152.4mm)** | | | **5.8 x 5.8in (147.3 x 147.3mm)** |
| Dimensions | (W x D x H) 18 x 12 x 9in (457.2 x 304.8 x 228.6mm) | | | | |
| Weight (Approx.) | 8lb (3.6kg) | | | | |
| Calibration | Front beam 10g x 0.1g, Middle beam 500g x 100g, Rear beam 100g x 10g | | | | |
| **Warranty** | **Five-year Limited Warranty** | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | |

**Dial-O-Gram models*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33350** | 710-00 | 610 g x 0.1 g | $281.00 |
| **33351** | 710-TO | 610 g x 0.1 g | $343.00 |
| **33352** | 720-00 | 610 g x 0.1 g | $331.00 |
| **33355** | 750-SO | 610 g x 0.1 g | $155.00 |
| **33357** | 760-00 | 610 g x 0.1 g | $290.00 |
| **33353** | 720-SO | 610 g x 0.1 g | $384.00 |
| **33354** | 730-00 | 610 g/2,610 g x 0.1 g | $414.00 |
| **33361** | 1650-00 | 610 g x 0.1 g | $363.00 |
| **33362** | 1650-WO | 2,610 g x 0.1 g | $420.00 |
| **33360** | 1610-00 | 610 g x 0.1 g | $420.00 |
| **103109** | TP2611 | 2,610 g x 0.1 g | $223.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33417** | 80780011 | Rod and clamp assembly | $72.00 |
| **33446** | 80780014 | Polypropylene scoop, 12 x 6 x 2.75 in (304 x 152 x 70 mm) footed and counterweighted for balance without tare | $54.00 |
| **33447** | 80780015 | Stainless steel scoop, 12 x 6 x 2.75 in (304 x 152 x 70 mm) footed and counterweighted for balance without tare | $127.00 |
| **33448** | 80780016 | Polypropylene Maxi-Scoop®, 10 in (254 mm) dia. x 2.5 in (70 mm) deep with pouring spout and counterweight | $57.00 |
| **33463** | 80780017 | Vinyl dust cover | $39.00 |
| **33414** | 80780108 | Attachment weight set, metric | $70.00 |





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# Harvard Trip Balance

Mechanical Beam

Capacity: 2,000 g  Readability: 0.1 g



## Standard Features

- Highly versatile, rugged, and accurate
- Two-pan design ideal for comparative weighing
- Built-in sliding masses
- Roberval principle
- Magnetic damping
- Comparative weighing

## Specifications

| | 1450-SD | 1550-SD | 1560-SD |
|---|---|---|---|
| **Part #** | **33364** | **33367** | **33368** |
| **List Price** | **$375.00** | **$402.00** | **$421.00** |
| Capacity | 2,000 g | 2,000 g | 2,000 g |
| **Resolution** | **0.1 g** | **0.1 g** | **0.1 g** |
| Pan Design | Two pan design; stainless steel plate | | |
| **Pan Size** | **6 in (152 mm)** | | |
| Dimensions | (W x D x H) 25 x 18 x 22 in (160 x 240 x 140 mm) | | |
| Calibration | Top beam 10 lb x 0.1 lb; Bottom beam 200 g x 10 g | | |
| **Warranty** | **Five-year Limited Warranty** | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33364** | 1450-SD | 2,000 g x 0.1 g, single beam | $375.00 |
| **33367** | 1550-SD | 2,000 g x 0.1 g, two beam | $402.00 |
| **33368** | 1560-SD | 2,000 g x 0.1 g, two beam with tare | $421.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33461** | 80850262 | Vinyl dust cover for Harvard Trip Balances | $39.00 |
| **33417** | 80780011 | Rod and clamp assembly for Triple Beam or Harvard Trip | $72.00 |



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# Dial-O-Gram® and Cent-O-Gram®

Mechanical Balances

Capacity: 310g-311g  Readability: 0.01g

## Standard Features

- 0.01 g or 0.1 g sensitivity
- Equipped for specific gravity weighing
- Four-tiered notched beams
- Easy-to-read vernier dial on model 310
- See-through poise on model 311
- High precision and remarkable value
- Three-point beam eliminates need for level adjustment
- Quick-zeroing with zero adjust knob



## Specifications

| | 310-00 | 311-00 |
|---|---|---|
| **Part #** | **33371** | **33370** |
| **List Price** | **$407.00** | **$336.00** |
| Capacity | 310 g | 311 g |
| **Resolution** | **0.01 g** | **0.01 g** |
| Operating Mode | Dial | Poise |
| **Pan Size** | **6 in (152.4 mm)** | |
| Platform | Stainless steel (removable) 3.5 x 0.5 in (88.9 x 12.7 mm) | |
| Calibrations | Front beam-225 g tare; middle beam-500 g x 100 g; ream beam-100 g x 10 g; dial-10 g x 0.1 g | |
| Weight (Approx.) | 5 lb (2.3 kg) | |
| **Warranty** | **Five-year Limited Warranty** | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33371** | 310-00 | 310 g x 0.01 g | $407.00 |
| **33370** | 311-00 | 311 g x 0.01 g | $336.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33420** | 80780018 | Test tube kit | $39.00 |
| **33462** | 80780005 | Vinyl dust cover | $39.00 |
| **Additional OHAUS Mechanical Balance Accessories** | | | |
| **33414** | 80780108 | Metric attachment mass set | $70.00 |
| **33450** | 80780006 | Polypropylene scoop, 12 in x 6 in 2.75 in (304 x 152 x 70 mm) footed, tare 125 g | $39.00 |
| **33451** | 80850359 | Polypropylene Maxi-Scoop®, 10 in (254 mm) dia. x 2.5 in (63 mm) D with pouring spout | $40.00 |
| **33454** | 80250048 | Black scoop, aluminum, 4 in x 3.5 in (102 x 89 mm) | $36.00 |
| **33455** | 80850364 | Aluminum scoop, 1.5 in x 2 in (38 x 51 mm) | $29.00 |





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# Field Test Scale

Mechanical Balance

Capacity: 16 kg, 36 lb  Readability: 5 g-0.01 lb



## Standard Features

- Affordable compact industrial scale
- Large, stabilized pan can hold oversized samples without tipping
- Readings up to 500 g are taken from a single sliding-weight beam, while a set of slotted weights, stored in the base, can extend the capacity up to 36 lb

## Specifications

| | 2400-11 | 2400-12 |
|---|---|---|
| **Part #** | **33379** | **33380** |
| **List Price** | **$1,476.00** | **$1,529.00** |
| Capacity | 16 kg | 36 lb |
| **Resolution** | **5 g** | **0.01 lb** |
| Operating Mode | Poise | Poise |
| Platform | 11 in (27.9 cm) | |
| Calibrations | Bottom beam-500 g x 5 g; top beam-1 lb x 0.01 lb | |
| Weight (Approximate) | 12 lb (5.4 kg) | |
| **Warranty** | **Five-year Limited Warranty** | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33379** | 2400-11 | 16 kg x 5 g | $1,476.00 |
| **33380** | 2400-12 | 36 lb x 0.01 lb | $1,529.00 |



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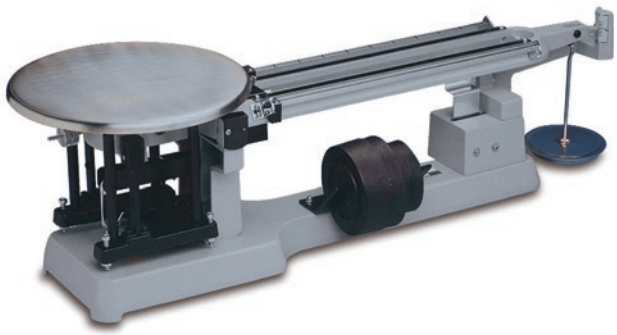
# Heavy Duty Solution

Mechanical Balance

Capacity: 20 kg  Readability: 1 g

## Standard Features

- Sets an industry standard for precision in high-capacity weighing
- Durable enough to resist corrosion
- Sensitive enough to weigh with a feather's touch
- Large stainless steel platform
- Lockable tare for containers up to 2,270 g
- Self-aligning bearings assure a long, maintenance-free life



## Specifications

| | 1119-DO |
|---|---|
| **Part #** | **33378** |
| **List Price** | **$2,398.00** |
| Capacity | 20 kg |
| **Resolution** | **1 g** |
| Operating Mode | Poise |
| **Pan Size** | **-** |
| Platform | 11 in (27.9 cm) |
| Calibrations | Front beam-100 g x 1 g; rear beam-1000 g x 100 g |
| Weight (Approx.) | 42 lb |
| **Warranty** | **Five-year Limited Warranty** |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33378** | 1119-DO | 20 kg x 1 g | $2,398.00 |





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# FD Series

Food Portioning Scale

Capacity: 6 lb-30 lb  Readability: 0.0002 lb-0.01 lb



APPROVALS

## Standard Features

- Designed for food service and other industrial applications with a focus on speed, durability and cleanliness
- All stainless steel, high-quality formed construction for sanitary cleaning and durability
- Checkweighing function for food packaging and preparation
- Internal rechargeable battery assures excellent portability
- Stainless steel housing and pan with non-slip rubber feet
- Checkweighing mode with 3-LED indicator and audible alarm
- Bright backlit LCD display
- Stable weight display within 2 seconds
- Multiple weighing units: lb, decimal/fractional oz, kg, g and lb
- AC power or internal rechargeable lead acid battery
- NSF-certified, USDA-AMS accepted, supports HACCP compliance
- EC/OIML type approved

*Note: NTEP Certified and Measurement Canada 3000e approved resolution is specific only to model without the "H" suffix. Units ship in non-NTEP Certified resolution*

## Specifications

| | | FD3H | FD3 | FD6H | FD6 | FD15H | FD15 |
|---|---|---|---|---|---|---|---|
| **Part #** | | **102774** | **-** | **102775** | **-** | **102776** | **-** |
| **List Price** | | **$951.00** | **-** | **$951.00** | **-** | **$951.00** | **-** |
| NTEP | **Part #** | **-** | **87824** | **-** | **87825** | **-** | **87826** |
| NTEP | **List Price** | **-** | **$848.00** | **-** | **$848.00** | **-** | **$848.00** |
| Approvals | | NSF listed/Certified to NSF C-2, UL C-US listed, NTEP CC 05-072 Class III, Measurement Canada AM-5582 | | | | | |
| Capacity | | 6 lb | 6 lb | 15 lb | 15 lb | 30 lb | 30 lb |
| **Resolution** | | **0.0002 lb** | **0.002 lb** | **0.001 lb** | **0.005 lb** | **0.001 lb** | **0.01 lb** |
| Overload capacity | | 150% | | | | | |
| Operating Modes | | Weighing, Checkweighing | | | | | |
| Repeatability | | 0.2 g | | 0.4 g | | 2 g | |
| Linearity | | ±0.2 g | | ±0.4 g | | ±0.2 g | |
| Stabilization Time | | < 2 seconds | | | | | |
| Operating Temperature | | 14° F to 104° F (-10° C to 40° C) 10% to 85% relative humidity, non-condensing | | | | | |
| Environmental | | IP43 | | | | | |
| **Pan Size** | | **8.2 x 8.2 in (209 x 209 mm)** | | | | | |
| Dimensions | | (W x D x H) 9 x 12 x 2.8 in (300 x 223 x 71 mm) | | | | | |
| Weight (Approx.) | | 8 lb (3.6 kg) | | | | | |
| Est. Ship Weight | | 11 lb (5 kg) | | | | | |
| Power | | 120V AC adapter, 9V DC 0.5A 50/60 Hz (Other adapters available by special request) | | | | | |
| Battery life | | Maximum 120 hours | | | | | |
| **Warranty** | | **One-year Limited Warranty** | | | | | |
| **Return Policy** | | **OHAUS Standard Policy - restock fee may apply** | | | | | |
| UNIT OF MEASURE | Kilogram | 3 x 0.0001 kg | 3 x 0.001 kg | 6 x 0.0002 kg | 6 x 0.002 kg | 15 x 0.005 kg | 15 x 0.005 kg |
| UNIT OF MEASURE | Grams | 3,000 x .1 g | 3,000 x 1 g | 6,000 x 0.2 g | 6,000 x 2 g | - | 15,000 x 5 g |
| UNIT OF MEASURE | Ounce | 96 oz x 0.005 oz; 96 oz x 1/4 oz | 96 oz x 0.05 oz or 1/4 oz | 240 oz x 0.01 oz; 240 oz x 1/4 oz | 240 oz x 0.1 oz or 1/4 oz | 480 oz x 0.02 oz or 1/4 oz | 480 oz x 0.2 oz or 1/4 oz |
| UNIT OF MEASURE | Pound x Ounce | 6 lb 0 oz x 1/4 oz; 6 lb 0 oz x 0.1 oz | - | 15 lb 0 oz x 0.1 oz; 15 lb 0 oz x 1/4 oz | - | 30 lb 0 oz x 0.1 oz or 1/4 oz | - |



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **102774** | FD3H | 6 lb x 0.0002 lb | $951.00 |
| **87824** | FD3 (NTEP) | 6 lb x 0.002 lb | $848.00 |
| **102775** | FD6H | 15 lb x 0.001 lb | $951.00 |
| **87825** | FD6 (NTEP) | 15 lb x 0.005 lb | $848.00 |
| **102776** | FD15H | 30 lb x 0.001 lb | $951.00 |
| **87826** | FD15 (NTEP) | 30 lb x 0.01 lb | $848.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **103118** | 80251394 | Hard shell carrying case for FD | $128.00 |
| **103116** | 80251141 | Flat pan for FD or Valor 5000 | $60.00 |
| **103117** | 80251140 | In-use cover for FD or Valor 5000 | $40.00 |
| **33451** | 80850359 | Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g | $40.00 |
| **97250** | 80250400 | Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm) | $72.00 |
| **100292** | 80250954 | Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm) | $89.00 |
| **98020** | 80500435 | AC Adapter | $60.00 |





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# Navigator™ XT

Battery-Operated Compact Scale

Capacity: 2,200 g - 22,000 g  Readability: 0.1 g - 1 g



## Standard Features

- Touchless IR (infrared) sensors minimize keypad use
- Program IR sensor to control zero, print tare, backlight and power functions
- Backlit 0.8 in LCD display for high visibility
- Illuminated level indicator at start-up
- Integrated transportation and calibration lock switch
- Hygienic design for easy cleanup in food, laboratory and industrial applications
- IP43 rating
- Impact-resistant ABS plastic housing with polished stainless steel spill-resistant pan
- Non-skid leveling feet
- Internal rechargeable battery

## Specifications

| | NVT2201 | NVT4201 | NVT6200 | NVT12000 | NVT22000 |
|---|---|---|---|---|---|
| **Part Number** | **194607** | **194608** | **194609** | **194610** | **194611** |
| **List Price** | **$388.00** | **$485.00** | **$479.00** | **$516.00** | **$620.00** |
| Capacity | 2,200 g | 4,200 g | 6,200 g | 12,000 g | 22,000 g |
| **Resolution** | **0.1 g** | **0.1 g** | **1 g** | **1 g** | **1 g** |
| Weighing Modes | Pound, Ounce, Pound/Ounce, Kilogram, Gram, Troy Ounce, Grain, Newton, Carat, Pennyweight, Tael (Hong Kong, Taiwan, Singapore), Tical, Tola | | | | |
| Operating Modes | Weighing, Percent, Parts Counting, Checkweighing, Display Hold, Accumulation/Totalization | | | | |
| Linearity | 0.1 g/±0.2 g | 0.1 g/±0.2 g | 1 g/±2 g | 1 g/±2 g | 1 g/±2 g |
| Stabilization Time | 1 second (NVT4201=1.5 seconds) | | | | |
| Operating Temperature | 50° F to 104° F (10° C to 40° C) at 20%-85% RH | | | | |
| **Pan Size** | **9.1 x 6.9 in (230 x 174 mm)** | | | | |
| Dimensions | (W x D x H) 9.5 x 9.8 x 2.9 in (240 x 250 x 74 mm) | | | | |
| Weight (Approx.) | 3.3 lb (1.5 kg) | | | | |
| Est. Shipping Weight | 5.1 lb (2.3 kg) | | | | |
| Ext. Cal. Mass (optional) | 2 lb (1 kg) | 5 lb (2 kg) | 10 lb (5 kg) | 10 lb (5 kg) | 20 lb (10 kg) |
| Power | 12 VDC 0.42 A AC adapter, 100-240 V, four C-batteries (not included) | | | | |
| **Warranty** | **One-year Limited Warranty** | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **194607** | NVT2201 | 2,200 g x 0.1 g | $388.00 |
| **194608** | NVT4201 | 4,200 g x 0.1 g | $485.00 |
| **194609** | NVT6200 | 6,200 g x 1 g | $479.00 |
| **194610** | NVT12000 | 12,000 g x 1 g | $516.00 |
| **194611** | NVT22000 | 22,000 g x 1 g | $620.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **118779** | 83032107 | RS-232 interface kit, Navigator series | $162.00 |
| **118780** | 83032108 | USB interface kit | $162.00 |
| **118781** | 83032109 | Ethernet interface kit | $162.00 |
| **194616** | 30467963 | Carrying case | $106.00 |
| **194615** | 30467987 | Universal AC adapter | $38.00 |



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Capacity: 1.5 kg-30 kg  Readability: 0.00005 kg-0.001 kg

## Standard Features

- Touchless sensors
- Backlit dual LCD display
- Illuminated up-front level indicator
- Internal rechargeable battery
- ABS plastic housing
- Skid-resistant leveling feet
- Menu lock switch
- Multiple application modes
- RS-232 standard
- Fast stabilizing time

APPROVALS



## Specifications

| | V71P1502T | V71P3T | V71P6T | V71P15T | V71P30T |
|---|---|---|---|---|---|
| **Part #** | **157316** | **157317** | **157318** | **157319** | **157320** |
| **List Price** | **$681.00** | **$681.00** | **$681.00** | **$681.00** | **$681.00** |
| Capacity | 1.5 kg | 3 kg | 6 kg | 15 kg | 30 kg |
| **Resolution** | **0.00005 kg** | **0.0001 kg** | **0.0002 kg** | **0.0005 kg** | **0.001 kg** |
| Weighing Modes | Weighing, Percent, Checkweighing, Accumulation | | | | |
| Units of Measures | Pound, Ounce, Kilogram, Gram | | | | |
| Pounds | 3 lb x 0.0001 lb | 6 lb x 0.0002 lb | 15 lb x 0.0005 lb | 30 lb x 0.001 lb | 60 lb x 0.002 lb |
| Grams | 1,500 g x 0.05 g | 3,000 g x 0.1 g | 6,000 g x 0.2 g | 15,000 g x 0.5 g | 30,000 g x 1 g |
| Ounces | 48 oz x 0.002 oz | 96 oz x 0.005 oz | 240 oz 0.01 oz | 480 oz x 0.02 oz | 960 oz x 0.05 oz |
| NTEP Resolution | 3 lb x 0.001 lb | 6 lb x 0.002 lb | 15 lb x 0.005 lb | 30 lb x 0.01 lb | 60 lb x 0.02 lb |
| Operating Temperature | 14° F to 104° F/-10° C to 40° C | | | | |
| **Pan Size** | **11.8 x 8.9 in (300 x 225 mm)** | | | | |
| Dimensions | (W x D x H) 12.2 x 12.9 x 4.6 in (311 x 327 x 117 mm) | | | | |
| Weight (Approx.) | 9.2 lb (4.2 kg) | | | | |
| Power | 100-240 V, internal rechargeable battery 210-hr operation with 12-hr full charge | | | | |
| Approvals | NTEP CC 13-022 | | | | |
| **Warranty** | **One-year Limited Warranty** | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **157316** | V71P1502T | 1.5 kg x 0.00005 kg | $681.00 |
| **157317** | V71P3T | 3 kg x 0.0001 kg | $681.00 |
| **157318** | V71P6T | 6 kg x 0.0002 kg | $681.00 |
| **157319** | V71P15T | 15 kg x 0.0005 kg | $681.00 |
| **157320** | V71P30T | 30 kg x 0.001 kg | $681.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **154638** | 30037447 | Ethernet kit | $151.00 |





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OHAUS

# Valor® 3000 Xtreme

Compact Precision Scales

Capacity: 200 g-6 kg  Readability: 0.01 g-1 g



## Standard Features

- Full 304 stainless steel housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP
- Resolutions up to 20,000d
- SmarText™ user interface
- Standard AC power adaptor
- Bright backlit LCD display
- Convenient up-front level device
- NSF listed
- NTEP CC 08-008 models available by special order

## Specifications

| | V31XH202 | V31XH402 | V31X501 | V31XH2 | V31X3 | V31XH4 | V31X6 |
|---|---|---|---|---|---|---|---|
| **Part #** | **100283** | **117790** | **117789** | **100284** | **100285** | **117792** | **100286** |
| **List Price** | **$755.00** | **$1,032.00** | **$552.00** | **$755.00** | **$498.00** | **$1,032.00** | **$498.00** |
| Capacity | 200 g | 400 g | 500 g | 2 kg | 3 kg | 4 kg | 6 kg |
| **Resolution** | **0.01 g** | **0.01 g** | **0.1 g** | **0.1 g** | **1 g** | **0.1 g** | **1 g** |
| Weighing Modes | Pounds, Decimal or fractional Ounces, Pound:Ounce, Fluid Ounce (of water), Kilogram, Gram | | | | | | |
| Operating Modes | Weighing, Percent Weighing, Combined Zero/Tare, Specific Gravity | | | | | | |
| Protection rating | Non-washdown models | | | | | | |
| Stabilization Time | <3 seconds | | | | | | |
| Operating Temperature | 32° F to 104° F (0° C to 40° C) | | | | | | |
| **Pan Size (W x D)** | **4.7 in (120 mm)** | | | **5.8 x 6.2 in (146 x 158 mm)** | | | |
| Dimensions | (W x D x H) 8.5 x 7.3 x 3 in (218 x 186 x 72 mm) | | | | | | |
| Weight (Approx.) | 2.6 lb (1.2 kg) | | | 2.9 lb (1.3 kg) | | | |
| Est. Ship Weight | 10 lb (4.8 kg) | | | | | | |
| Calibration | Digital external calibration | | | | | | |
| Power | 120V AC adapter (9V DC, 0.5 A), four 1.5 Volt C batteries (not included) | | | | | | |
| Battery life | 50 hours with alkaline cells | | | 120 hours with alkaline cells | | | |
| **Warranty** | **One-year Limited Warranty** | | | | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **100283** | V31XH202 | 200 g x 0.01 g | $755.00 |
| **117790** | V31XH402 | 400 g x 0.01 g | $1,032.00 |
| **117789** | V31X501 | 500 g x 0.1 g | $552.00 |
| **100284** | V31XH2 | 2 kg x 0.1 g | $755.00 |
| **100285** | V31X3 | 3 kg x 1 g | $498.00 |
| **117792** | V31XH4 | 4 kg x 0.1 g | $1,032.00 |
| **100286** | V31X6 | 6 kg x 1 g | $498.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **103119** | 80251216 | Hardshell carrying case for FD and Valor | $128.00 |
| **102756** | 80251147 | Sandwich pan, 11 x 5.9 in (280 x 150 mm) for Valor Xtreme | $83.00 |
| **102757** | 80251148 | French fries holder pan for Valor 3000 Xtreme | $83.00 |
| **102758** | 80251149 | Ice cream cone holder for Valor 3000 Xtreme | $83.00 |
| **33451** | 80850359 | Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g | $40.00 |
| **100292** | 80250954 | Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm) | $89.00 |
| **97250** | 80250400 | Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm) | $72.00 |



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# Valor® 3000 Xtreme

## Compact Washdown Scales

Capacity: 300 g-6 kg  Readability: 0.01 g-1 g

## Standard Features

- Full 304 stainless steel housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP
- IP65
- NTEP CC 08-008 models available



## Specifications

| | V31XW301 | V31XW3 | V31XW6 |
|---|---|---|---|
| **Part #** | **100287** | **-** | **-** |
| **List Price** | **$588.00** | **-** | **-** |
| **NTEP Part #** | **-** | **100288** | **100289** |
| **NTEP List Price** | **-** | **$582.00** | **$582.00** |
| Capacity | 300 g | 3 kg | 6 kg |
| **Resolution** | **0.1 g** | **1 g** | **2 g** |
| Weighing Modes | Pounds, Decimal or Fractional Ounces, Pound/Ounce, Fluid oz (of water), Kilogram, Gram | | |
| Operating Modes | Weighing, Percent Weighing, Combined Zero/Tare, Specific Gravity | | |
| Protection Rating | IP65 | | |
| Stabilization Time | <3 seconds | | |
| Operating Temperature | 32° F to 104° F (0° C to 40° C) | | |
| **Pan Size (W x D)** | **5.8 x 6.2 in (146 x 158 mm)** | | |
| Dimensions | (W x D x H) 8.5 x 7.3 x 3 in (218 x 186 x 72 mm) | | |
| Weight (Approx.) | 2.9 lb (1.3 kg) | | |
| Est. Ship Weight | 10 lb (4.8 kg) | | |
| Calibration | Digital external calibration | | |
| Power | 120 V AC adapter (9 V DC, 0.5 A), four 1.5 Volt C batteries (not included) | | |
| Battery Life | 50 hours with alkaline cells | | 120 hours with alkaline cells |
| **Warranty** | **One-year Limited Warranty** | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **100287** | V31XW301 | 300 g x 0.1 g | $588.00 |
| **100288** | V31XW3 | 3 kg x 1 g | $582.00 |
| **100289** | V31XW6 | 6 kg x 2 g | $582.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **103119** | 80251216 | Hardshell carrying case for FD and Valor | $128.00 |
| **102756** | 80251147 | Sandwich pan, 11 in x 5.9 in (280 x 150 mm) for Valor Xtreme | $83.00 |
| **102757** | 80251148 | French fries holder pan for Valor 3000 Xtreme | $83.00 |
| **102758** | 80251149 | Ice cream cone holder for Valor 3000 Xtreme | $83.00 |
| **33451** | 80850359 | Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 cm dia x 6.4 cm deep) with pouring spout, weight 145 g | $40.00 |
| **100292** | 80250954 | Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm) | $89.00 |
| **97250** | 80250400 | Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm) | $72.00 |





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OHAUS

# Valor® 2000

Compact Washdown Scales

Capacity: 3 kg-15 kg  Readability: 0.5 g-2 g



APPROVALS

## Standard Features

- IPX8 protection rating
- Front and rear dual display, 0.8 in (20.5 mm)
- Removable stainless steel platform cover
- Fast 0.5 second stabilization time
- SmarText™ interface
- Knife-proof keypad
- AC adapter and battery included

## Specifications

| | V22XWE3T | V22XWE6T | V22XWE15T |
|---|---|---|---|
| **Part #** | **102771** | **102772** | **102773** |
| **List Price** | **$536.00** | **$536.00** | **$536.00** |
| Capacity | 3 kg | 6 kg | 15 kg |
| **Resolution** | **0.5 g** | **1 g** | **2 g** |
| Weigh Units | Kilograms, Pounds, Grams, Ounces, Pound and Ounce | | |
| Operating Modes | Weigh, Checkweigh | | |
| Construction | Stainless steel housing and platform | | |
| Protection Rating | IPX8 | | |
| Safe Overload | 150% of capacity | | |
| Stabilization Time | <1 second | | |
| Operating Temperature | 14° F to 104° F (-10° C to 40° C) | | |
| **Pan Size** | **7.5x 9.5 in (242 x 190 mm)** | | |
| Dimensions | (W x D x H) 10.1 x 11.3 x 4.9 in (256 x 288 x 124 mm) | | |
| Weight (Approx.) | 8.6 lb (3.9 kg) | | |
| Calibration | Digital external calibration | | |
| Power | Universal AC adapter, 12VDC 0.7A internal rechargeable lead acid battery | | |
| Battery Life | 50 hours with 1 hour recharge time | | |
| **Warranty** | **One-year Limited Warranty** | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | |

*^Weighing Chamber*

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **102771** | V22XWE3T | 3 kg x 0.5 g | $536.00 |
| **102772** | V22XWE6T | 6 kg x 1 g | $536.00 |
| **102773** | V22XWE15T | 15 kg x 2 g | $536.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33451** | 80850359 | Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g | $40.00 |
| **97250** | 80250400 | Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm) | $72.00 |
| **100292** | 80250954 | Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm) | $89.00 |



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Capacity: 3 kg-30 kg  Readability: 0.001 g-0.005 g

## Standard Features

- Removable stainless steel platform cover
- Mid-profile ABS plastic housing
- Front-mounted leveling device
- Long-lasting internal rechargeable battery (standard)
- Compact footprint
- Fast response time
- Easy to clean

APPROVALS



*Compact Precision Scales*

## Specifications

| | V11P3 | V11P6 | V11P15 | V11P30 |
|---|---|---|---|---|
| **Part #** | **102767** | **102768** | **102769** | **102770** |
| **List Price** | **$268.00** | **$268.00** | **$268.00** | **$268.00** |
| Capacity | 3 kg | 6 kg | 15 kg | 30 kg |
| **Resolution** | **0.5 g** | **1 g** | **2 g** | **5 g** |
| Decimal Ounce | 105 oz x 0.02 oz | 210 oz x 0.05 oz | 520 oz x 0.1 oz | 1058 oz x 0.5 oz |
| Decimal Pound | 6.6 lb x 0.001 lb | 13 lb x 0.002 lb | 33 lb x 0.01 lb | 66 lb x 0.02 lb |
| Grams | 3,000 g x 0.5 g | 6,000 g x 1 g | 15,000 g x 2 g | 30,000 g x 5 g |
| Operating Modes | Weigh, Accumulate, Checkweigh | | | |
| Construction | ABS plastic housing, stainless steel pan | | | |
| Stabilization Time | ≤3 seconds | | | |
| Operating Temperature | 32° F to 104° F (0° C to 40° C) at 10% to 95% relative humidity non-condensing, up to 2.5 miles/4,000 m above sea level | | | |
| Scale Overload | 120% of capacity | | | |
| **Pan Size (W x D)** | **9.9 x 7.1 in (250 x 180 mm)** | | | |
| Dimensions | (W x D x H) 10 x 12 x 4.3 in (250 x 307 x 110 mm) | | | |
| Weight (Approx.) | 7 lb (3.2 kg) | | | |
| Est. Ship Weight | 8.8 lb (4.0 kg) | | | |
| Power | Universal AC adapter included (9 V DC 500 mA); internal rechargeable sealed lead acid battery (included) | | | |
| Battery life | 80/100 hours (with/without backlight on) with 12-hour recharge time | | | |
| **Warranty** | **One-year Limited Warranty** | | | |
| **Return Policy** | **OHAUS Standard Policy - restock fee may apply** | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **102767** | V11P3 | 3 kg x 0.5 g | $268.00 |
| **102768** | V11P6 | 6 kg x 1 g | $268.00 |
| **102769** | V11P15 | 15 kg x 2 g | $268.00 |
| **102770** | V11P30 | 30 kg x 5 g | $268.00 |

*^Weighing Chamber*

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **33451** | 80850359 | Polypropylene Maxi-Scoop™ 10 dia x 2.5 in deep (25.4 dia x 6.4 cm deep) with pouring spout, weight 145 g | $40.00 |
| **97250** | 80250400 | Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 x 18.7 x 4.3 cm) | $72.00 |
| **100292** | 80250954 | Stainless steel scoop 17.2 x 11 x 3.4 in (44 x 28 x 8.5 cm) | $89.00 |



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SARTORIUS

# Cubis® II

Ultra-Micro/Micro Balances

Capacity: 1.1 g-5.1 g  Readability: 0.0001 mg-0.005 mg



## Standard Features

- Modular design
- User configurable & custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Choice of display
- MCA - Large, high-end 7" color touch screen TFT display in 16:9 format
- MCE - State-of-the-art, TFT touchscreen operation
- -M/DH: Automatic glass draft shield
- -F: Manual stainless steel draft shield

## Specifications

| | | 2.7S-2S00-M | 2.7S-2S00-F | 6.6S-2S00-M | 6.6S-2S00-F | 3.6P-2S00-M | 66S-000-DH Cubis I | 66P-000-DH Cubis I | 36S-000-DH Cubis I | 36P-000-DH Cubis I |
|---|---|---|---|---|---|---|---|---|---|---|
| MCE* | Part # | 195680 | 195683 | 195686 | 195689 | 195693 | - | - | - | - |
| | List Price | $36,295.00 | $37,285.00 | $28,375.00 | $29,365.00 | $21,705.00 | - | - | - | - |
| MCA** | Part # | 195682 | 195685 | 195687 | 195690 | 195692 | 186390 | 186391 | 186392 | 186394 |
| | List Price | $37,065.00 | $38,055.00 | $29,145.00 | $30,135.00 | $22,475.00 | $37,250.00 | $34,145.00 | $32,270.00 | $27,900.00 |
| Capacity | | 2.1 g | 2.1 g | 6.1 g | 6.1 g | 1.1 g/2.1 g/3.1 g | 61 g | 12 g/61 g | 31 g | 6 g/31 g |
| **Resolution** | | **0.0001 mg** | **0.0001 mg** | **0.001 mg** | **0.001 mg** | **0.001 mg/ 0.002 mg/0.005 mg** | **0.001 mg** | **0.001 mg/0.01 mg** | **0.001 mg** | **0.001/0.01 mg** |
| Weighing Modes | | Grams, Kilograms, Carats, Pounds, Ounces, Troy Ounces, Hong Kong Taels, Singapore Taels, Grains, Pennyweights, Milligrams, Parts per Pound, Chinese Taels, Momme, Austrian Carats, Tola, Baht, Mesghal | | | | | | | | |
| Operating Modes (*) | | Counting, Checkweighing, Percent Weighing, Unit Toggle, Animal Weighing, Net Total, Formulation, Statistics, Calculation, Timer, Backweighing, Density Determination, Memory (300), Diameter Determination | | | | | | | | |
| Repeatability | | 0.25 µg | | 0.001 mg | | 0.003/0.004/0.005 mg | 0.0015 mg/ 0.004 mg | 0.002 mg/0.010 mg | 0.0015 mg/ 0.002 mg | 0.0015 mg/ 0.008 mg |
| Linearity | | 0.9 µg | | 4 µg | | 4 µg | 0.020 mg | 0.020 mg | 0.015 mg | 0.015 mg |
| Stabilization Time | | 7 seconds | | 5 seconds | | 5 seconds | 3.5 seconds | 3.5 seconds | 3.5 seconds | 3.5 seconds |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) | | | | | | | | |
| Weighing Chamber (DE) | | 2.75 in (70 mm) H | 0.6 in (15 mm) H | 2.75 in (70 mm) H | 0.6 in (15 mm) H | 2.75 in (70 mm) H | 7.13 in (181 mm) | 7.13 in (181 mm) | 7.13 in (181 mm) | 7.13 in (181 mm) |
| **Pan Size** | | **Ø 0.8 in (20 mm)** | **Ø 1.9 in (50 mm) dia** | **Ø 1.2 in (30 mm)** | **Ø 1.9 in (50 mm)** | **Ø 1.2 in (30 mm)** | **1.18 in/1.97 in (30 mm/50 mm)** | **1.18 in/1.97 in (30 mm/50 mm)** | **1.18 in (30 mm)** | **1.18 in (30 mm)** |
| Dimensions | | 192 mm x 323 mm x 88 mm | | | | | | | | |
| Weight (Approx.) | | 17 lb | | | | | | | | |
| Est. Ship Weight | | 28 lb | | | | 40 lb | | | | |
| Calibration Weight | | 2 g | | 5 g | | 3 g | 50 g (E2) | 50 g (E2) | 20 g (E2) | 20 g (E2) |
| Power | | 100 - 240 V Power Supply | | | | | | | | |
| **Warranty** | | **Two-year Limited Warranty** | | | | | | | | |
| **Return Policy** | | **Sartorius Standard Policy - restock fee may apply** | | | | | | | | |

*^Weighing Chamber*

** MCE Large TFT Touchscreen and easy-to-use menu system*

***MCA TFT color touchscreen, Ethernet and SD card reader*
*DF-SS manual draft shield for weighing filters*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195680*** | MCE2.7S-2S00-M | 2.1 g x 0.0001 mg | $36,295.00 |
| **195682**** | MCA2.7S-2S00-M | 2.1 g x 0.0001 mg | $37,065.00 |
| **195683*** | MCE2.7S-2S00-F | 2.1 g x 0.0001 mg | $37,285.00 |
| **195685**** | MCA2.7S-2S00-F | 2.1 g x 0.0001 mg | $38,055.00 |
| **195686*** | MCE6.6S-2S00-M | 6.1 g x 0.001 mg | $28,375.00 |
| **195687**** | MCA6.6S-2S00-M | 6.1 g x 0.001 mg | $29,145.00 |
| **195689*** | MCE6.6S-2S00-F | 6.1 g x 0.001 mg | $29,365.00 |
| **195690**** | MCA6.6S-2S00-F | 6.1 g x 0.001 mg | $30,135.00 |
| **186390**** | MSA66S-000-DH Cubis I | 61 g x 0.001 mg | $37,250.00 |
| **186391**** | MSA66P-000-DH Cubis I | 12 g/61 g x 0.001 mg/0.01 mg | $34,145.00 |
| **186392**** | MSA36S-000-DH Cubis I | 31 g x 0.001 mg | $32,270.00 |
| **186394**** | MSA36P-000-DH Cubis I | 6 g/31 g x 0.001 mg/0.01 mg | $27,900.00 |
| **195693*** | MCE3.6P-2S00-M | 1.1 g/2.1 g/3.1 g x 0.001 mg/0.002 mg/0.005 mg | $21,705.00 |
| **195692**** | MCA3.6P-2S00-M | 1.1 g/2.1 g/3.1 g x 0.001 mg/0.002 mg/0.005 mg | $22,475.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **Consult** | IB | Bluetooth® wireless interface (factory installed) | Consult |
| **Consult** | IP | Additional RS-232, 9-Pin connection with PS2 port (factory installed) | Consult |
| **156906** | 6971987 | Multi-range power supply, does not include line cord | $200.00 |
| **156908** | 6900900 | Power cord, 220 V (EU) | $43.00 |

**MCE Large TFT Touchscreen and easy-to-use menu system*

***TFT color touchscreen, Ethernet and SD card reader*





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SARTORIUS

# Cubis® II

Semi-Micro and Analytical Balances

Capacity: 60 g-520 g  Readability: 0.01 mg-0.1 mg



## Standard Features

- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Manual glass draft shield
- Choice of display
- MCA - Large, high-end, 7" color touchscreen TFT display in 16:9 format
- MCE - State-of-the-art, TFT touchscreen operation

## Specifications

| | | 225S | 225P | 125P | 324S | 224S | 324P | 124S | 524S | 524P |
|---|---|---|---|---|---|---|---|---|---|---|
| MCE* | Part # | 195694 | 195797 | 195798 | 195695 | 195696 | 195801 | 195697 | 195799 | 195800 |
| MCE* | List Price | $12,950.00 | $11,170.00 | $8,130.00 | $8,260.00 | $7,400.00 | $7,340.00 | $6,140.00 | $9,940.00 | $8,130.00 |
| MCA** | Part # | 195698 | 195802 | 195803 | 195700 | 195701 | 195805 | 195702 | 195699 | 195804 |
| MCA** | List Price | $13,720.00 | $11,940.00 | $8,900.00 | $9,030.00 | $8,170.00 | $8,110.00 | $6,910.00 | $10,710.00 | $8,900.00 |
| Capacity | | 220 g | 60/120/220 g | 60/120 g | 320 g | 220 g | 80/160/320 g | 120 g | 520 g | 120/240/520 g |
| **Resolution** | | **0.01 mg** | **0.01/0.02/0.05 mg** | **0.01/0.1 mg** | **0.1 mg** | **0.1 mg** | **0.1/0.2/0.5 mg** | **0.1 mg** | **0.1 mg** | **0.1/0.2/0.5 mg** |
| Weighing Modes | | Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommes, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms | | | | | | | | |
| Operating Modes | | Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing | | | | | | | | |
| Repeatability | | 0.025 mg | 0.015/0.04 mg | 0.015/0.06 mg | 0.1 mg | 0.07 mg | 0.1/0.2/0.4 mg | 0.1 mg | 0.1 mg | 0.1/0.2/0.5 mg |
| Linearity | | 0.1 mg | 0.15 mg | 0.15 mg | 0.3 mg | 0.2 mg | 0.5 mg | 0.2 mg | 0.4 mg | 0.5 mg |
| Stabilization Time | | 2 seconds | 2 seconds | 2 seconds | 1 seconds | 1 seconds | 1 seconds | 1 seconds | 1 seconds | 1 seconds |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) | | | | | | | | |
| Weighing Chamber | | (W x D x H) 8 x 8 x 10.2 in (205 x 205 x 261 mm) | | | | | | | | |
| **Pan Size(W x D)** | | **3.3 x 3.3 in (85 x 85 mm)** | | | | | | | | |
| Dimensions | | (W x D x H) 16 x 9.8 x 14.6 in (410 x 249 x 370.4 mm) (with manual draft shield) | | | | | | | | |
| Weight (Approx.) | | 18 lb | | | | | | | | |
| Est. Ship Weight | | 31.9 lb | | 29.7 lb | | | | | | |
| Calibration Weight | | 200 g | 200 g | 100 g | 300 g | 200 g | 300 g | 100 g | 500 g | |
| Power | | 120V AC adapter auto ranging | | | | | | | | |
| **Warranty** | | **Two-year Limited Warranty** | | | | | | | | |
| **Return Policy** | | **Sartorius Standard Policy - restock fee may apply** | | | | | | | | |

** MCE Large TFT Touchscreen and easy-to-use menu system*

***MCA TFT color touchscreen, Ethernet and SD card reader*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195694*** | MCE225S-2S00-U | 220 g x 0.01 mg | $12,950.00 |
| **195797*** | MCE225P-2S00-U | 60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg | $11,170.00 |
| **195798*** | MCE125P-2S00-U | 60 g/120 g x 0.01 mg/0.1 mg | $8,130.00 |
| **195695*** | MCE324S-2S00-U | 320 g x 0.1 mg | $8,260.00 |
| **195799** | MCE524S-2S00-U | 520 g x 0.1 mg | $9,940.00 |
| **195800** | MCE524P-2S00-U | 520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg | $8,130.00 |
| **195696*** | MCE224S-2S00-U | 220 g x 0.1 mg | $7,400.00 |
| **195801*** | MCE324P-2S00-U | 80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg | $7,340.00 |
| **195697*** | MCE124S-2S00-U | 120 g x 0.1 mg | $6,140.00 |
| **195698**** | MCA225S-2S00-U | 220 g x 0.01 mg | $13,720.00 |
| **195802**** | MCA225P-2S00-U | 60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg | $11,940.00 |
| **195803**** | MCA125P-2S00-U | 60 g/120 g x 0.01 mg/0.1 mg | $8,900.00 |
| **195699** | MCA524S-2S00-U | 520 g x 0.1 mg | $10,710.00 |
| **195804** | MCA524P-2S00-U | 520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg | $8,900.00 |
| **195700**** | MCA324S-2S00-U | 320 g x 0.1 mg | $9,030.00 |
| **195701**** | MCA224S-2S00-U | 220 g x 0.1 mg | $8,170.00 |
| **195805**** | MCA324P-2S00-U | 80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg | $8,110.00 |
| **195702**** | MCA124S-2S00-U | 120 g x 0.1 mg | $6,910.00 |

**MCE Large TFT Touchscreen and easy-to-use menu system*

***TFT color touchscreen, Ethernet and SD card reader*

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **Consult** | DA | Automatic motorized draft shield for analytical balances (factory installed) | Consult |
| **Consult** | DI | Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed) | Consult |
| **Consult** | TR | Certificate of compliance and full factory test report (factory installed) | Consult |
| **Consult** | IR | Additional RS-232, 25-pin connection (factory installed) | Consult |
| **156906** | 6971987 | Power supply, 100-240 V | $200.00 |
| **156908** | 6900900 | Cord, power 220 V EU | $43.00 |
| **Consult** | IB | Bluetooth® wireless interface | Consult |
| **Consult** | IP | Additional RS-232, nine-pin connection with PS2 port | Consult |





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SARTORIUS

# Cubis® II

Milligram Balances

Capacity: 150g-5,200g  Readability: 0.0001g-0.01g



## Standard Features

- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Manual glass draft shield
- Choice of display
- MCA - Large, high-end, 7" color touchscreen TFT display in 16:9 format
- MCE - State-of-the-art, TFT touchscreen operation

## Options:

- Bluetooth® wireless technology

## Specifications

| | | 3203S | 2203S | 2203P | 1203S | 5203S | 5203P | 623S | 623P | 323S |
|---|---|---|---|---|---|---|---|---|---|---|
| MCE* | Part # | 195703 | 195704 | 195806 | 195705 | 195706 | 195807 | 195707 | 195808 | 195709 |
| | List Price | $8,935.00 | $8,640.00 | $8,355.00 | $7,585.00 | $10,290.00 | $9,810.00 | $5,950.00 | $5,245.00 | $5,135.00 |
| MCA** | Part # | 195711 | 195712 | 195809 | 195713 | 195714 | 195810 | 195715 | 195811 | 195716 |
| | List Price | $9,705.00 | $9,410.00 | $9,125.00 | $8,355.00 | $11,060.00 | $10,580.00 | $6,720.00 | $6,015.00 | $5,905.00 |
| Capacity | | 3,200 g | 2,200 g | 1,010/2,200 g | 1,200 g | 5,200 g | 5,200/2,400/1,200 g | 620 g | 150/300/620 g | 320 g |
| **Resolution** | | **1 mg** | **1 mg** | **1/10 mg** | **1 mg** | **1 mg** | **5/2/1 mg** | **1 mg** | **1, 2, 5 mg** | **1 mg** |
| Weighing Modes | | Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommes, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms | | | | | | | | |
| Operating Modes (*) | | Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing | | | | | | | | |
| Repeatability | | 1/6 mg | 1 mg | 1/6 mg | 0.7 mg | 1 mg | 1 mg | 0.7 mg | 1/2/4 mg | 0.7 mg |
| Linearity | | 5 mg | 3 mg | 5 mg | 2 mg | 5 mg | 5 mg | 2 mg | 5 mg | 2 mg |
| Stabilization Time | | 1 second | 1 second | 1 second | 1 second | 1 second | 1 second | 0.8 seconds | 0.8 seconds | 0.8 seconds |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) | | | | | | | | |
| Weighing Chamber (DE) | | (W x D x H) 8 x 8 x 7 in (from pan) (200 x 200 x 179 mm) | | | | | | | | |
| **Pan Size(W x D)** | | **5.5 x 5.5 in (140 x 140 mm)** | | | | | | | | |
| Dimensions | | (W x D x H) 16 x 9.8 x 11 in (410 x 249 x 281.4 mm) (with manual draft shield) | | | | | | | | |
| Weight (Approx.) | | 17 lb | | | | | | | | |
| Est. Ship Weight | | 27 lb | | | | | | 25 lb | | |
| Calibration Weight | | 2,000 g | 2,000 g | 1,000 g | 1,000 g | 500 g | 500 g | 500 g | 500 g | 200 g |
| Power | | 120V AC adapter (auto ranging) | | | | | | | | |
| **Warranty** | | **Two-year Limited Warranty** | | | | | | | | |
| **Return Policy** | | **Sartorius Standard Policy - restock fee may apply** | | | | | | | | |

**MCE Large TFT Touchscreen and easy-to-use menu system*

***MCA TFT color touchscreen, Ethernet and SD card reader*



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195703*** | MCE3203S-2S00-E | 3,200 g x 1 mg | $8,935.00 |
| **195704*** | MCE2203S-2S00-E | 2,200 g x 1 mg | $8,640.00 |
| **195806*** | MCE2203P-2S00-E | 1,010 g/2,200 g x 1 mg/10 mg | $8,355.00 |
| **195705*** | MCE1203S-2S00-E | 1,200 g x 1 mg | $7,585.00 |
| **195706** | MCE5203S-2S00-E | 5,200 g x 0.001 g | $10,290.00 |
| **195807** | MCE5203P-2S00-E | 5,200 g/2,400 g/1,200 g x 0.005 g/0.002 g/0.001 g | $9,810.00 |
| **195707*** | MCE623S-2S00-E | 620 g x 1 mg | $5,950.00 |
| **195808*** | MCE623P-2S00-E | 150 g/300 g/620 g x 1 mg/2 mg/5 mg | $5,245.00 |
| **195709*** | MCE323S-2S00-E | 320 g x 1 mg | $5,135.00 |
| **195711**** | MCA3203S-2S00-E | 3,200 g x 1 mg | $9,705.00 |
| **195712 **** | MCA2203S-2S00-E | 2,200 g x 1 mg | $9,410.00 |
| **195809 **** | MCA2203P-2S00-E | 1,010 g/2,200 g x 1 mg/10 mg | $9,125.00 |
| **195713 **** | MCA1203S-2S00-E | 1,200 g x 1 mg | $8,355.00 |
| **195714** | MCA5203S-2S00-E | 5,200 g x 0.001 g | $11,060.00 |
| **195810** | MCA5203P-2S00-E | 5,200 g/2,400 g/1,200 g x 0.005 g/0.002 g/0.001 g | $10,580.00 |
| **195715 **** | MCA623S-2S00-E | 620 g x 1 mg | $6,720.00 |
| **195811 **** | MCA623P-2S00-E | 150 g/300 g/620 g x 1 mg/2 mg/5 mg | $6,015.00 |
| **195716 **** | MCA323S-2S00-E | 320 g x 1 mg | $5,905.00 |

**MCE Large TFT Touchscreen and easy-to-use menu system*

***TFT color touchscreen, Ethernet and SD card reader*

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **Consult** | TR | Certificate of compliance and full factory test report (factory installed) | Consult |
| **Consult** | IR | Additional RS-232, 25-pin connection (factory installed) | Consult |
| **156906** | 6971987 | Power supply, 100-240V | $200.00 |
| **156908** | 6900900 | Cord, power 220V EU | $43.00 |
| **Consult** | IB | Bluetooth® wireless interface (factory installed) | Consult |
| **Consult** | IP | Additional RS-232, nine-pin connection with PS2 port (factory installed) | Consult |
| **Consult** | DA, DR, DI or DU | Other draft shields available | Consult |





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SARTORIUS

# Cubis® II

Toploading Balances

Capacity: 1,200 g-12,200 g  Readability: 0.01 g-0.1 g



## Standard Features

- Fast stabilization time
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Underweigh hook included
- Choice of display
- MCA - Large, high-end, 7" color touchscreen TFT display in 16:9 format
- MCE - State-of-the-art, TFT touchscreen operation

## Option:

- Bluetooth® wireless technology

## Specifications

| | | 1202S | 2202S | 4202S | 6202P | 6202S | 8202S | 10202S |
|---|---|---|---|---|---|---|---|---|
| MCE* | Part # | 195723 | 195722 | 195721 | 195815 | 195720 | 195719 | 195718 |
| | List Price | $3,910.00 | $4,335.00 | $4,760.00 | $4,920.00 | $5,485.00 | $6,195.00 | $7,165.00 |
| MCA** | Part # | 195733 | 195732 | 195731 | 195818 | 195730 | 195729 | 195728 |
| | List Price | $4,680.00 | $5,105.00 | $5,530.00 | $5,690.00 | $6,255.00 | $6,965.00 | $7,935.00 |
| Capacity | | 1,200 g | 2,200 g | 4,200 g | 1,500/3,000/6,200 g | 6,200 g | 8,200 g | 10,200 g |
| **Resolution** | | **10 mg** | **10 mg** | **10 mg** | **10/20/50 mg** | **10 mg** | **10 mg** | **10 mg** |
| Weighing Modes | | Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommes, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms | | | | | | |
| Operating Modes (*) | | Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing | | | | | | |
| Repeatability | | 7 mg | 7 mg | 7 mg | 7 mg/20 mg/1940 mg | 7 mg | 7 mg | 7 mg |
| Linearity | | 20 mg | 20 mg | 20 mg | 20 mg | 20 mg | 20 mg | 20 mg |
| Stabilization Time | | 0.8 seconds | 0.8 seconds | 0.8 seconds | 1 second | 1 second | 1 second | 1 second |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) | | | | | | |
| **Pan Size (W x D)** | | **8.1 x 8.1 in (206 x 206 mm)** | | | | | | |
| Dimensions | | (W x D x H) 16 x 9.8 x 3.5 in (410 x 249 x 87.7 mm) | | | | | | |
| Weight (Approx.) | | 16 lb | | | | | | |
| Est. Shipping Weight | | 21 lb | | | | | | |
| Calibration Weight | | 1 kg | 2 kg | 2 kg | 5 kg | 5 kg | 5 kg | 10 kg |
| Power | | 120 V AC adapter (auto ranging) | | | | | | |
| **Warranty** | | **Two-year Limited Warranty** | | | | | | |
| **Return Policy** | | **Sartorius Standard Policy - restock fee may apply** | | | | | | |

**MCE Large TFT Touchscreen and easy-to-use menu system*

***MCA TFT color touchscreen, Ethernet and SD card reader*



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## Specifications

| | | 5201S | 5202s | 8201S | 12201S | 14202s | 14202p |
|---|---|---|---|---|---|---|---|
| MCE* | Part # | 195726 | 195816**** | 195725 | 195724 | 195717 | 195812 |
| | List Price | $3,250.00 | $6,020.00 | $4,400.00 | $4,865.00 | $8,795.00 | $7,595.00 |
| MCA** | Part # | 195736 | 195820**** | 195735 | 195734 | 195727 | 195817 |
| | List Price | $4,020.00 | $6,790.00 | $5,170.00 | $5,635.00 | $9,565.00 | $8,365.00 |
| Capacity | | 5,200 g | 5,200 g | 8,200 g | 12,200 g | 14,200 g | 3,500 g/7,000 g/14,200 g |
| **Resolution** | | **100 mg** | **0.01 g** | **100 mg** | **100 mg** | **0.01 g** | **0.01/0.02/0.05 g** |
| Weighing Modes | | Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommes, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms | | | | | |
| Operating Modes | | Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing | | | | | |
| Repeatability | | 50 mg | 0.006 g | 50 mg | 50 mg | 0.01 g | 0.01 g/0.02 g/0.01 g |
| Linearity | | 100 mg | 0.01 g | 100 mg | 200 mg | 0.03 g | 0.05 g |
| Stabilization Time | | 0.8 seconds | 1 second | 0.8 seconds | 0.8 seconds | 1 second | 1 second |
| Operating Temperature | | 41° F to 104° F (5° C to 40° C) | | | | | |
| **Pan Size (W x D)** | | **8.1 x 8.1 in (206 x 206 mm)** | | | | | |
| Dimensions | | (W x D x H) 16 x 9.8 x 3.5 in (410 x 249 x 87.7 mm) | | | | | |
| Weight (Approx.) | | 16 lb | | | | | |
| Est. Shipping Weight | | 21 lb | | | | | |
| Calibration Weight | | 5 kg | 5000 g | 5 kg | 10 kg | 10 kg | 10 kg |
| Power | | 120V AC adapter auto ranging | | | | | |
| **Warranty** | | **Two-year Limited Warranty** | | | | | |
| **Return Policy** | | **Sartorius Standard Policy - restock fee may apply** | | | | | |

**MCE Large TFT Touchscreen and easy-to-use menu system*

***MCA TFT color touchscreen, Ethernet and SD card reader*

*****DR draft stainless steel shield*





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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **195717** | MCE14202S-2S00-0 | 14,200 g x 0.01 g | $8,795.00 |
| **195812** | MCE14202P-2S00-0 | 3,500 g/7,000 g/14,200 g x 0.01 g/0.02 g/0.05 g | $7,595.00 |
| **195718*** | MCE10202S-2S00-0 | 10,200 g x 10 mg | $7,165.00 |
| **195719*** | MCE8202S-2S00-0 | 8,200 g x 10 mg | $6,195.00 |
| **195720*** | MCE6202S-2S00-0 | 6,200 g x 10 mg | $5,485.00 |
| **195815*** | MCE6202P-2S00-0 | 1,500 g/3,000 g/6,200 g x 10 mg/20 mg/50 mg | $4,920.00 |
| **195816** | MCE5202S-2S00-R | 5,200 g x 0.01 g | $6,020.00 |
| **195721*** | MCE4202S-2S00-0 | 4,200 g x 10 mg | $4,760.00 |
| **195722*** | MCE2202S-2S00-0 | 2,200 g x 10 mg | $4,335.00 |
| **195723*** | MCE1202S-2S00-0 | 1,200 g x 10 mg | $3,910.00 |
| **195724*** | MCE12201S-2S00-0 | 12,200 g x 100 mg | $4,865.00 |
| **195725*** | MCE8201S-2S00-0 | 8,200 g x 100 mg | $4,400.00 |
| **195726*** | MCE5201S-2S00-0 | 5,200 g x 100 mg | $3,250.00 |
| **195727** | MCA14202S-2S00-0 | 14,200 g x 0.01 g | $9,565.00 |
| **195817** | MCA14202P-2S00-0 | 3,500 g/7,000 g/14,200 g x 0.01 g/0.02 g/0.05 g | $8,365.00 |
| **195728**** | MCA10202S-2S00-0 | 10,200 g x 10 mg | $7,935.00 |
| **195729**** | MCA8202S-2S00-0 | 8,200 g x 10 mg | $6,965.00 |
| **195730**** | MCA6202S-2S00-0 | 6,200 g x 10 mg | $6,255.00 |
| **195818**** | MCA6202P-2S00-0 | 1,500 g/3,000 g/6,200 g x 10 mg/20 mg/50 mg | $5,690.00 |
| **195820** | MCA5202S-2S00-R | 5,200 g x 0.01 g | $6,790.00 |
| **195731**** | MCA4202S-2S00-0 | 4,200 g x 10 mg | $5,530.00 |
| **195732**** | MCA2202S-2S00-0 | 2,200 g x 10 mg | $5,105.00 |
| **195733**** | MCA1202S-2S00-0 | 1,200 g x 10 mg | $4,680.00 |
| **195734**** | MCA12201S-2S00-0 | 12,200 g x 100 mg | $5,635.00 |
| **195735**** | MCA8201S-2S00-0 | 8,200 g x 100 mg | $5,170.00 |
| **195736**** | MCA5201S-2S00-0 | 5,200 g x 100 mg | $4,020.00 |

**MCE Large TFT Touchscreen and easy-to-use menu system*
***TFT color touchscreen, Ethernet and SD card reader*

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **Consult** | TR | Certificate of compliance and full factory test report (factory installed) | Consult |
| **Consult** | IR | Additional RS-232, 25-pin connection (factory installed) | Consult |
| **156906** | 6971987 | Power supply, 100-240V | $200.00 |
| **156908** | 6900900 | Cord, power 220V EU | $43.00 |
| **Consult** | IB | Bluetooth® wireless interface (factory installed) | Consult |
| **Consult** | IP | Additional RS-232, nine-pin connection with PS2 port (factory installed) | Consult |



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# Quintix/Secura

Semi-Micro Balances

Capacity: 60 g-320 g  Readability: 0.01 mg-0.1 g

## Standard Features

- Color capacitive touch with swipe technology
- Simple touch technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Integrated level-control
- Mini-USB
- Weigh below hook
- isoCAL/fully automatic, external calibration
- GLP conformance with built-in time and date
- Time and Date

## Secura Options:

- Internal calibration
- Opto-electronic leveling system
- Sqmin safety program
- Analytical draft support ring




## Specifications

| Quintix | QUINTIX65-1S^ | QUINTIX125D-1S^ | - | - | - |
|---|---|---|---|---|---|
| Part Number | 170634 | 170635 | - | - | - |
| List Price | $5,730.00 | $5,970.00 | - | - | - |
| Secura | - | - | SECURA125-1S^ | SECURA225D-1S^ | SECURA324-1S^ |
| Part Number | - | - | 170636 | 170380 | 170637 |
| List Price | - | - | $6,575.00 | $6,905.00 | $5,240.00 |
| Capacity | 60 g | 60 g/120 g | 60 g/120 g | 120 g/220 g | 320 g |
| Readability | 0.01 mg | 0.01/0.1 mg | 0.01/0.1 mg | 0.01/0.1 mg | 0.1 mg |
| Repeatability | 0.04 mg | 0.04/0.07 mg | 0.001 g | 0.001 g | 0.001 g |
| Linearity ± | 0.1 mg | 0.1/0.2 mg | 0.1 mg | 0.1/0.2 mg | 0.3 mg |
| Minimum Weight per USP | N/A | N/A | 25 mg | 25 mg | 160 mg |
| External Calibration Weight | 50 g | 100 g | 100 g | 200 g | 300 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal and Newton | | | | |
| Applications | Mass Unit Conversion, Counting, Percent Weighing, Averaging | | | | |
| Display Type | LCD | | | | |
| Operating Humidity | Less than 95% RH | | | | |
| Operating Temperature | 41° F to 113° F (5° C to 45° C) | | | | |
| Stabilization Time (typical) | 6 seconds | 6/2 seconds | 6 seconds | 6/2 seconds | 2 seconds |
| Net Weight (kg/lb) | 7.8 kg (18 lb) | | | | |
| Pan Size/Type | 80 mm (3.5 in) diameter pan, stainless steel | | | | 90 mm (3.5 in) diameter pan, stainless steel |
| Weighing Chamber Height | 218 mm (8.5 in) | | | | |
| Dimensions (WxDxH) | 376 x 214 x 316 mm (14.8 x 8.4 x 12.4 in) | | | | |
| Power Requirements | 12-15V DC, 4.5 W | | | | |
| AC Power Requirements | AC adapter, 115V-240V | | | | |
| Frequency | 50-60 Hz | | | | |
| Optional Accessories | Calibration weights, RS-232 interface cable | | | | |
| Warranty | Two-year Manufacturer Warranty | | | | |

*^Breeze break*



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SARTORIUS

# Quintix/Secura

Semi-Micro Balances

## Part Number/Price

| Part Number | Model | Description | Price |
|---|---|---|---|
| **170634** | QUINTIX65-1S | 60 g x 0.01 mg | $5,730.00 |
| **170635** | QUINTIX125D-1S | 60 g/120 g x 0.01 mg/0.1 mg | $5,970.00 |
| **170636** | SECURA125-1S | 120 g x 0.01 mg | $6,575.00 |
| **170380** | SECURA225D-1S | 120 g/220 g x 0.01 mg/0.1 mg | $6,905.00 |
| **170637** | SECURA324-1S | 320 g x 0.1 mg | $5,240.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **155847** | YCC03-D09 | Data cable, mini USB/RS-232, nine-pin | $59.00 |



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# Practum/Quintix/Secura

Analytical Balances

Capacity: 120 g-510 g  Readability: 0.1 mg-0.001 g

## Standard Features

- Simple, color capacitive touch with swipe technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Front level bubble
- Mini-USB
- Weigh below hook
- Quintix and Secura Options:
- isoCAL/fully automatic, external calibration
- GLP conformance with built-in time and date

## Secura Options:

- Internal calibration
- Opto-electronic leveling system
- Sqmin safety program
- Analytical draft support ring




*Practum*
*Basic*




*Quintex*
*Mid-level*




*Secura*
*High Level*

## Specifications

| **Practum** | **124-1S^** | **224-1S^** | **213-1S^** | **313-1S^** | **-** |
|---|---|---|---|---|---|
| **Part Number** | **153983** | **153984** | **153985** | **153986** | **-** |
| **List Price** | **$2,580.00** | **$2,835.00** | **$1,470.00** | **$1,585.00** | **-** |
| **Quintix** | **124-1S^** | **224-1S^** | **213-1S^** | **313-1S^** | **513-1S^** |
| **Part Number** | **153992** | **153993** | **153994** | **153995** | **153996** |
| **List Price** | **$3,620.00** | **$4,100.00** | **$2,140.00** | **$2,290.00** | **$3,100.00** |
| **Secura** | **124-1S** | **224-1S** | **213-1S** | **313-1S** | **513-1S** |
| **Part Number** | **154005** | **154006** | **154007** | **154008** | **154009** |
| **List Price** | **$4,015.00** | **$4,450.00** | **$2,455.00** | **$2,670.00** | **$3,345.00** |
| Capacity | 120 g | 220 g | 210 g | 310 g | 510 g |
| **Resolution** | **0.1 mg** | **0.1 mg** | **0.001 g** | **0.001 g** | **0.001 g** |
| Repeatability | ±0.1 mg | ±0.1 mg | 0.001 g | 0.001 g | 0.001 g |
| Linearity | ±0.3 mg (0.2 mg Secura and Quintix) | ±0.3 mg (0.2 mg Secura and Quintix) | 3 mg (2 mg Secura and Quintix) | 3 mg (2 mg Secura and Quintix) | 2 mg |
| External Calibration Weight | 100 g | 200 g | | | 500 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal and Newton | | | | |
| Applications | Mass Unit Conversion, Counting, Percent Weighing, Averaging | | | | |
| Display Type | LCD | | | | |
| Operating Humidity | Less than 95% RH | | | | |
| Operating Temperature | 50° F to 86° F (10° C to 30° C) | | | | |
| Stabilization Time (typical) | 3 seconds | | | | |
| Net Weight (kg/lb) | 4.5 kg (11 lb) | | | | |
| **Pan Size/Type** | **90 mm (3.5 in) diameter pan, stainless steel** | | **120 mm (4.75 in) diameter pan, stainless steel** | | |
| Weighing Chamber Height | 209 mm (7.9 in) | | | | |
| Dimensions (W x D x H) | 360 x 216 x 320 mm (14.1 x 8.5 x 12.6 in) | | | | |
| Power Requirements | 10-20V | | | | |
| AC Power Requirements | AC adapter, 115V-240V | | | | |
| Frequency | 50-60 Hz | | | | |
| Optional Accessories | Calibration weights, RS-232 interface cable | | | | |
| **Warranty** | **Two-year Manufacturer Warranty** | | | | |

*^Breeze break*





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# Practum/Quintix/Secura

Analytical Balances

## Part Number/Price

| Part Number | Model | Description | Price |
|---|---|---|---|
| **153983** | Practum 124-1S | 120 g x 0.1 mg | $2,580.00 |
| **153992** | Quintix 124-1S | 120 g x 0.1 mg | $3,620.00 |
| **154005** | Secura 124-1S | 120 g x 0.1 mg | $4,015.00 |
| **153984** | Practum 224-1S | 220 g x 0.1 mg | $2,835.00 |
| **153993** | Quintix 224-1S | 220 g x 0.1 mg | $4,100.00 |
| **154006** | Secura 224-1S | 220 g x 0.1 mg | $4,450.00 |
| **153985** | Practum 213-1S | 210 g x 0.001 g | $1,470.00 |
| **153994** | Quintix 213-1S | 210 g x 0.001 g | $2,140.00 |
| **154007** | Secura 213-1S | 210 g x 0.001 g | $2,455.00 |
| **153986** | Practum 313-1S | 310 g x 0.001 g | $1,585.00 |
| **153995** | Quintix 313-1S | 310 g x 0.001 g | $2,290.00 |
| **154008** | Secura 313-1S | 310 g x 0.001 g | $2,670.00 |
| **153996** | Quintix 513-1S | 510 g x 0.001 g | $3,100.00 |
| **154009** | Secura 513-1S | 510 g x 0.001 g | $3,345.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **191429** | 6971790 | AC adapter, 110-240V, six power plugs | $78.00 |
| **155847** | YCC03-D09 | Adapter cable, USB to RS-232 | $59.00 |





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# Practum/Quintix/Secura

Precision Balances

Capacity: 610 g-5,100 g  Readability: 0.01 g-1.0 g

## Standard Features

- Simple, color capacitive touch with swipe technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Front level bubble
- Mini-USB
- Weigh below hook
- Quintix and Secura Options:
- isoCAL/fully automatic, external calibration
- GLP conformance with built-in time and date
- Time and date

## Secura Options:

- Internal calibration
- Opto-electronic leveling system
- Sqmin safety program
- Analytical draft support ring




*Secura*
*High Level*

## Specifications

| **Practum** | **612-1S** | **1102-1S** | **2102-1S** | **-** | **-** | **5101-1S** | **5100-1S** |
|---|---|---|---|---|---|---|---|
| **Part Number** | **153987** | **153988** | **153989** | **-** | **-** | **153991** | **153990** |
| **List Price** | **$1,155.00** | **$1,275.00** | **$1,335.00** | **-** | **-** | **$1,360.00** | **$1,050.00** |
| **Quintix** | **612-1S** | **1102-1S** | **2102-1S** | **3102-1S** | **5102-1S** | **5101-1S** | **5100-1S** |
| **Part Number** | **153998** | **153999** | **154000** | **154001** | **154003** | **154004** | **154002** |
| **List Price** | **$1,810.00** | **$2,050.00** | **$2,290.00** | **$2,535.00** | **$3,140.00** | **$1,810.00** | **$1,450.00** |
| **Secura** | **-** | **1102-1S** | **2102-1S** | **3102-1S** | **5102-1S** | **-** | **-** |
| **Part Number** | **-** | **154010** | **154011** | **154012** | **154013** | **-** | **-** |
| **List Price** | **-** | **$2,340.00** | **$2,785.00** | **$3,010.00** | **$3,460.00** | **-** | **-** |
| Capacity | 610 g | 1,100 g | 2,100 g | 3,100 g | 5,100 g | 5,100 g | 5,100 g |
| **Resolution** | **0.01 g** | **0.01 g** | **0.01 g** | **0.01 g** | **0.01 g** | **0.1 g** | **1.0 g** |
| Repeatability | ±10 mg | ±10 mg | ±10 mg | ±10 mg | ±10 mg | 0.1 g | 1.0 g |
| Linearity | ±30 mg (±20 mg Quintix and Secura) | ±30 mg (±20 mg Quintix and Secura) | ±30 mg (±20 mg Quintix and Secura) | ±20 mg | ±20 mg | ±0.3 g (±0.2 g Quintix) | ±3.0 g (±2.0 g Quintix) |
| External Calibration Weight | 500 g | 1000 g | 2,000 g | | 5,000 g | | |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal and Newton | | | | | | |
| Applications | Mass Unit Conversion, Counting, Percent Weighing, Averaging | | | | | | |
| Display Type | LCD | | | | | | |
| Operating Humidity | Less than 95% RH | | | | | | |
| Operating Temperature | 50° F to 86° F (10° C to 30° C) | | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | | | | | |
| Stabilization Time (typical) | 3 seconds | | | | | | |
| Net Weight (kg/lb) | 9 lb (4.5 kg) | | | | | | |
| **Pan Size/Type** | **7 in (180 mm) diameter pan, stainless steel** | | | | | | |
| Dimensions (W x D x H) | 14.1 x 8.5 x 12.6 in (360 x 216 x 320 mm) | | | | | | |
| AC Power Requirements | AC adapter, 115 V-240 V | | | | | | |
| Frequency | 50-60 Hz | | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | | |





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# Practum/Quintix/Secura

Precision Balances

## Part Number/Price

| Part Number | Model | Description | Price |
|---|---|---|---|
| **153987** | Practum 612-1S | 610 g x 0.01 g | $1,155.00 |
| **153998** | Quintix 612-1S | 610 g x 0.01 g | $1,810.00 |
| **153988** | Practum 1102-1S | 1,100 g x 0.01 g | $1,275.00 |
| **153999** | Quintix 1102-1S | 1,100 g x 0.01 g | $2,050.00 |
| **154010** | Secura 1102-1S | 1,100 g x 0.01 g | $2,340.00 |
| **153989** | Practum 2102-1S | 2,110 g x 0.01 g | $1,335.00 |
| **154000** | Quintix 2102-1S | 2,110 g x 0.01 g | $2,290.00 |
| **154011** | Secura 2102-1S | 2,110 g x 0.01 g | $2,785.00 |
| **154001** | Quintix 3102-1S | 3,100 g x 0.01 g | $2,535.00 |
| **154012** | Secura 3102-1S | 3,100 g x 0.01 g | $3,010.00 |
| **154003** | Quintix 5102-1S | 5,100 g x 0.01 g | $3,140.00 |
| **154013** | Secura 5102-1S | 5,100 g x 0.01 g | $3,460.00 |
| **153991** | Practum 5101-1S | 5,100 g x 0.1 g | $1,360.00 |
| **154004** | Quintix 5101-1S | 5,100 g x 0.1 g | $1,810.00 |
| **153990** | Practum 5100-1S | 5,100 g x 1.0 g | $1,050.00 |
| **154002** | Quintix 5100-1S | 5,100 g x 1.0 g | $1,450.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **191429** | 6971790 | AC adapter, 110-240 V, six power plugs | $78.00 |
| **155847** | YCC03-D09 | Adapter cable, USB to RS-232 | $59.00 |





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NEW

SARTORIUS

# Entris II Basic Essential

Analytical/Precision/Toploading Balances

Capacity: 60 g-8,200 g  Readability: 0.0001-1.0 g

## Standard Features

- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing



## Specifications

| | BCE64I-1S^ | BCE124I-1S^ | BCE224I-1S^ | BCE223I-1S^ | BCE323I-1S^ | BCE423I-1S^ | BCE623I-1S^ |
|---|---|---|---|---|---|---|---|
| **Part #** | **197392** | **197393** | **197394** | **197395** | **197396** | **197397** | **197398** |
| **List Price** | **$2,290.00** | **$2,600.00** | **$2,910.00** | **$1,455.00** | **$1,665.00** | **$2,080.00** | **$2,290.00** |
| Capacity | 60 g | 120 g | 220 g | 220 g | 320 g | 420 g | 620 g |
| Readability | 0.1 mg | 0.1 mg | 0.1 mg | 0.001 g | 0.001 g | 0.001 g | 0.001 g |
| Repeatability | ±0.1 mg | ±0.1 mg | ±0.1 mg | ±1 mg | ±1 mg | ±1 mg | ±1 mg |
| Linearity | ±0.2 mg | ±0.2 mg | ±0.2 mg | ±2 mg | ±2 mg | ±2 mg | ±2 mg |
| External Calibration Weight | 50 g | 100 g | 200 g | 200 g | 200 g | 200 g | 500 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds:Ounces, Newton | | | | | | |
| Applications | Weighing, Density, Percentage, Counting, Mass Unit Conversion | | | | | | |
| Display Type | Backlit LCD white, 15 mm digits | | | | | | |
| Operating Humidity | 15% to 80% for temperatures up to 31° C | | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | | | | | |
| Stabilization Time (typical) | 2.5 seconds | | | 1.3 seconds | 1.1 seconds | 1.0 seconds | |
| Net Weight (kg/lbs) | 6.2 kg (13.7 lb) | | | | | | |
| **Pan Size/Type** | **90 mm (3.5 in) diameter pan, stainless steel** | | | **120 mm (4.7 in) pan, stainless steel** | | | |
| Dimensions (W x D x H) | 230 x 303 x 330 mm (9.1 x 11.9 x 13 in) | | | 230 x 303 x 136 mm (9.1 x 11.9 x 5.4 in) | | | |
| AC Power Requirements | AC adapter, 115V-240V, US plug | | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | | |

*^Weighing Chamber*

## Specifications

| | BCE622I-1S | BCE653I-1S^ | BCE822II-1S | BCE1202I-1S | BCE2202I-1S | BCE2201I-1S | BCE3202I-1S |
|---|---|---|---|---|---|---|---|
| **Part #** | **197399** | **197400** | **197401** | **197402** | **197403** | **197404** | **197405** |
| **List Price** | **$1,350.00** | **$2,495.00** | **$1,455.00** | **$1,560.00** | **$1,665.00** | **$1,455.00** | **$1,770.00** |
| Capacity | 620 g | 650 g | 820 g | 1,200 g | 2,200 g | 2,200 g | 3,200 g |
| Readability | 0.01 g | 0.001 g | 0.01 g | 0.01 g | 0.01 g | 0.1 g | 0.01 g |
| Repeatability | ±1 mg | ±1 mg | ±1 mg | ±1 mg | ±1 mg | ±0.1 g | ±0.1 g |
| Linearity | ±2 mg | ±2 mg | ±2 mg | ±2 mg | ±2 mg | ±0.3 g | ±0.3 g |
| External Calibration Weight | 500 g | 500 g | 500 g | 500 g | 500 g | 2,000 g | 5,000 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong, Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds:Ounces, Newton | | | | | | |
| Applications | Weighing, Density, Percentage, Counting, Mass Unit Conversion | | | | | | |
| Display Type | Backlit LCD white, 15 mm digits | | | | | | |
| Operating Humidity | 15% to 80% for temperatures up to 31° C | | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | | | | | |
| Stabilization Time (typical) | 1.0 seconds | 1.5 seconds | | | | | |
| Net Weight (kg/lb) | 6.3 kg (13.9 lb) | | 4.8 kg (10.6 lb) | 5.4 kg (12 lb) | 6.3 kg (13.9 lb) | 5.4 kg (12 lb) | 5.4 kg (12 lb) |
| **Pan Size/Type** | **120 mm (4.7 in) pan, stainless steel** | | | | | | |
| Dimensions (W x D x H) | 230 x 303 x 330 mm (9.1 x 11.9 x 13 in) | 230 x 303 x 87 mm (9.1 x 11.9 x 3.4 in) | (W x D x H) 230 x 303 x 136 mm (9.1 x 11.9 x 5.4 in) | | | | |
| AC Power Requirements | AC adapter, 115V-240V, US plug | | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | | |



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# NEW

SARTORIUS

# Entris II Basic Essential

Analytical/Precision/Toploading Balances

## Specifications

| | BCE4202I-1S | BCE5201I-1S | BCE6202I-1S | BCE6200I-1S | BCE8201I-1S | BCE8200I-1S |
|---|---|---|---|---|---|---|
| **Part #** | **197406** | **197407** | **197408** | **197409** | **197410** | **197411** |
| **List Price** | **$1,975.00** | **$1,560.00** | **$2,495.00** | **$1,455.00** | **$1,770.00** | **$1,560.00** |
| Capacity | 4,200 g | 5,200 g | 6,200 g | 6,200 g | 8,200 g | 8,200 g |
| Readability | 0.01 g | 0.1 g | 0.01 g | 1.0 g | 0.1 g | 1.0 g |
| Repeatability | ±0.1 g | ±0.1 g | ±0.1 g | ±0.1 g | ±0.1 g | ±0.1 g |
| Linearity | ±0.3 g | ±0.3 g | ±0.3 g | ±0.3 g | ±0.3 g | ±0.3 g |
| External Calibration Weight | 5,000 g | 5,000 g | 5,000 g | 5,000 g | 5,000 g | 5,000 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong, Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds:Ounces, Newton | | | | | |
| Applications | Weighing, Density, Percentage, Counting, Mass Unit Conversion | | | | | |
| Display Type | Backlit LCD white, 15 mm digits | | | | | |
| Operating Humidity | 15% to 80% for temperatures up to 31° C | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | | | | |
| Stabilization Time (typical) | 1.5 seconds | | | | | |
| Net Weight (kg/lb) | 5.4 kg (12 lb) | | | | | |
| **Pan Size/Type** | **(W x D x H) 180 x 180 x 91 mm (7.1 x 7.1 x 3.6 in)** | | | | | |
| Dimensions (W x D x H) | 230 x 303 x 330 mm (9.1 x 11.9 x 13 in) | 230 x 303 x 87 mm (9.1 x 11.9 x 3.4 in) | 230 x 303 x 136 mm (9.1 x 11.9 x 5.4 in) | | | |
| AC Power Requirements | AC adapter, 115V-240V, US plug | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **197392** | BCE64I-1S | 60 g x 0.1 mg | $2,290.00 |
| **197393** | BCE124I-1S | 120 g x 0.1 mg | $2,600.00 |
| **197394** | BCE224I-1S | 220 g x 0.1 mg | $2,910.00 |
| **197395** | BCE223I-1S | 220 g x 0.001 g | $1,455.00 |
| **197396** | BCE323I-1S | 320 g x 0.001 g | $1,665.00 |
| **197397** | BCE423I-1S | 420 g x 0.001 g | $2,080.00 |
| **197398** | BCE623I-1S | 620 g x 0.001 g | $2,290.00 |
| **197399** | BCE622I-1S | 620 g x 0.01 g | $1,350.00 |
| **197400** | BCE653I-1S | 650 g x 0.001 g | $2,495.00 |
| **197401** | BCE822I-1S | 820 g x 0.01 g | $1,455.00 |
| **197402** | BCE1202I-1S | 1,200 g x 0.01 g | $1,560.00 |
| **197403** | BCE2202I-1S | 2,200 g x 0.01 g | $1,665.00 |
| **197404** | BCE2201I-1S | 2,200 g x 0.1 g | $1,455.00 |
| **197405** | BCE3202I-1S | 3,200 g x 0.01 g | $1,770.00 |
| **197406** | BCE4202I-1S | 4,200 g x 0.01 g | $1,975.00 |
| **197407** | BCE5201I-1S | 5,200 g x 0.1 g | $1,560.00 |
| **197408** | BCE6202I-1S | 6,200 g x 0.01 g | $2,495.00 |
| **197409** | BCE6200I-1S | 6,200 g x 1.0 g | $1,455.00 |
| **197410** | BCE8201I-1S | 8,200 g x 0.1 g | $1,770.00 |
| **197411** | BCE8200I-1S | 8,200 g x 1.0 g | $1,560.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **112261** | YDP20-0CE | Data printer (requires power supply part number 191429) | $1,225.00 |
| **31103** | 6906937 | Paper rolls, one roll | $34.00 |
| **31106** | 6906918 | Ink ribbon cassette | $39.00 |
| **155805** | YCC01-USBM2 | Data cable RS-232/USB (for YDP20 Printer) | $160.00 |
| **191429** | 6971790 | AC adapter with interchangeable plugs (for use with Entris II or YDP20-0CE) | $78.00 |



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NEW

SARTORIUS

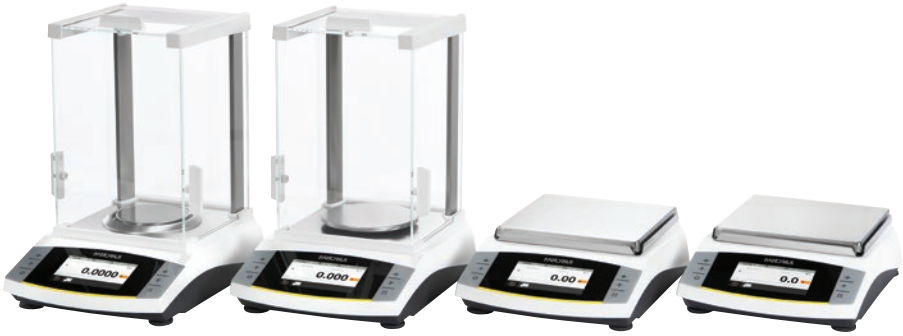
# Entris II Basic Advanced

Analytical/Precision/Toploading Balances

Capacity: 60 g-12,200 g  Readability: 0.1 mg-0.1 g

## Standard Features

- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing



## Specifications

| | BCA64I-1S^ | BCA124I-1S^ | BCA223I-1S^ | BCA224I-1S^ | BCA323I-1S^ | BCA324I-1S^ | BCA423I-1S^ |
|---|---|---|---|---|---|---|---|
| **Part #** | **202468** | **202469** | **202470** | **202471** | **202472** | **202473** | **202474** |
| **List Price** | **$3,000.00** | **$3,600.00** | **$2,100.00** | **$4,000.00** | **$2,300.00** | **$4,400.00** | **$2,500.00** |
| Capacity | 60 g | 120 g | 220 g | 220 g | 320 g | 320 g | 420 g |
| Readability | 0.1 mg | 0.1 mg | 1 mg | 0.1 mg | 1 mg | 0.1 mg | 1 mg |
| Repeatability | ±0.1 mg | ±0.1 mg | ±0.1 mg | ±1 mg | ±1 mg | ±1 mg | ±1 mg |
| Linearity | ±0.2 mg | ±0.2 mg | ±0.2 mg | ±2 mg | ±2 mg | ±2 mg | ±2 mg |
| External Calibration Weight | 50 g | 100 g | 200 g | 200 g | 200 g | 200 g | 500 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds:Ounces, Newton | | | | | | |
| Applications | Weighing, Density, Percentage, Counting, Mass Unit Conversion, Mixing, Statistics, Components, Animal Weighing, Checkweighing, Peak Hold and Pipette Test | | | | | | |
| Display Type | Backlit LCD white, 15 mm digits | | | | | | |
| Operating Humidity | 15% to 80% for temperatures up to 31° C | | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | | | | | |
| Stabilization Time (typical) | 2.5 seconds | | | 1.3 seconds | 1.1 seconds | 1.0 seconds | |
| Net Weight (kg/lbs) | 6.2 kg (13.7 lb) | | | | | | |
| **Pan Size/Type** | **90 mm (3.5 in) diameter pan, stainless steel** | | | **120 mm (4.7 in) pan, stainless steel** | | | |
| Dimensions (W x D x H) | 52.5 x 49.5 x 40 cm (20.67 x 19.49 x 15.75 in) | | | | | | |
| AC Power Requirements | AC adapter, 115V-240V, US plug | | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | | |

*^Weighing Chamber*

## Specifications

| | BCA623I-1S^ | BCA822I-1S | BCA1202I-1S | BCA1203I-1S^ | BCA2201I-1S | BCA2202I-1S | BCA3202I-1S |
|---|---|---|---|---|---|---|---|
| **Part #** | **202475** | **202476** | **202477** | **202478** | **202479** | **202480** | **202481** |
| **List Price** | **$3,000.00** | **$1,900.00** | **$2,100.00** | **$4,000.00** | **$1,800.00** | **$2,300.00** | **$2,500.00** |
| Capacity | 620 g | 820 g | 1,200 g | 1,200 g | 2,200 g | 2,200 g | 3,200 g |
| Readability | 1 mg | 10 mg | 10 mg | 1 mg | 0.1 g | 10 mg | 10 mg |
| Repeatability | ±1 mg | ±1 mg | ±1 mg | ±1 mg | ±1 mg | ±0.1 g | ±0.1 g |
| Linearity | ±2 mg | ±2 mg | ±2 mg | ±2 mg | ±2 mg | ±0.3 g | ±0.3 g |
| External Calibration Weight | 500 g | 500 g | 500 g | 500 g | 500 g | 2,000 g | 5,000 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong, Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds:Ounces, Newton | | | | | | |
| Applications | Weighing, Density, Percentage, Counting, Mass Unit Conversion, Mixing, Statistics, Components, Animal Weighing, Checkweighing, Peak Hold and Pipette Test | | | | | | |
| Display Type | Backlit LCD white, 15 mm digits | | | | | | |
| Operating Humidity | 15% to 80% for temperatures up to 31° C | | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | | | | | |
| Stabilization Time (typical) | 1.0 seconds | 1.5 seconds | | | | | |
| Net Weight (kg/lb) | 6.3 kg (13.9 lb) | | 4.8 kg (10.6 lb) | 5.4 kg (12 lb) | 6.3 kg (13.9 lb) | 5.4 kg (12 lb) | 5.4 kg (12 lb) |
| **Pan Size/Type** | **120 mm (4.7 in) pan, stainless steel** | | | | | | |
| Dimensions (L x W x H) | 52.5 x 49.5 x 40 cm (20.67 x 19.49 x 15.75 in) | 45 x 25 x 35 cm (17.72 x 9.84 x 13.78 in) | | 52.5 x 49.5 x 40 cm (20.67 x 19.49 x 15.75 in) | 45 x 25 x 35 cm (17.72 x 9.84 x 13.78 in) | | |
| AC Power Requirements | AC adapter, 115V-240V, US plug | | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | | |

*^Weighing Chamber*

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# NEW

SARTORIUS

# Entris II Basic Advanced

Analytical/Precision/Toploading Balances

## Specifications

| | BCA4202I-1S | BCA5201I-1S | BCA6202I-1S | BCA8201I-1S | BCA10201I-1S | BCA12201I-1S |
|---|---|---|---|---|---|---|
| **Part #** | **202482** | **202483** | **202484** | **202485** | **202486** | **202487** |
| **List Price** | **$2,600.00** | **$2,000.00** | **$3,600.00** | **$2,400.00** | **$3,600.00** | **$3,800.00** |
| Capacity | 4,200 g | 5,200 g | 6,200 g | 8,200 g | 10,200 g | 12,200 g |
| Readability | 10 mg | 0.1 g | 10 mg | 0.1 g | 0.1 g | 0.1 g |
| Repeatability | ±0.1 g | ±0.1 g | ±0.1 g | ±0.1 g | ±0.1 g | ±0.1 g |
| Linearity | ±0.3 g | ±0.3 g | ±0.3 g | ±0.3 g | ±0.3 g | ±0.3 g |
| External Calibration Weight | 5,000 g | 5,000 g | 5,000 g | 5,000 g | 5,000 g | 5,000 g |
| Weighing Modes | Gram, Kilogram, Carat, Pound, Ounce, Troy Ounce, Hong Kong, Tael, Singapore Tael, Taiwan Tael, Grain, Pennyweights, Milligram, Parts per Pound, China Teal, Mommes, Austrian Carat, Tola, Baht, Mesghal, Tons, Pounds:Ounces, Newton | | | | | |
| Applications | Weighing, Density, Percentage, Counting, Mass Unit Conversion, Mixing, Statistics, Components, Animal Weighing, Checkweighing, Peak Hold and Pipette Test | | | | | |
| Display Type | Backlit LCD white, 15 mm digits | | | | | |
| Operating Humidity | 15% to 80% for temperatures up to 31° C | | | | | |
| Operating Temperature | 41° F to 104° F (5° C to 40° C) | | | | | |
| Stabilization Time (typical) | 1.5 seconds | | | | | |
| Net Weight (kg/lb) | 5.4 kg (12 lb) | | | | | |
| **Pan Size/Type** | **(W x D x H) 180 x 180 x 91 mm (7.1 x 7.1 x 3.6 in)** | | | | | |
| Dimensions (L x W x H) | 45 x 25 x 35 cm (17.72 x 9.84 x 13.78 in) | | | | | |
| AC Power Requirements | AC adapter, 115V-240V, US plug | | | | | |
| **Warranty** | **Two-year Limited Warranty** | | | | | |

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **202468** | BCA64I-1S | 60 g x 0.1 mg | $3,000.00 |
| **202469** | BCA124I-1S | 120 g x 0.1 mg | $3,600.00 |
| **202470** | BCA223I-1S | 220 g x 1 mg | $2,100.00 |
| **202471** | BCA224I-1S | 220 g x 0.1 mg | $4,000.00 |
| **202472** | BCA323I-1S | 320 g x 1 mg | $2,300.00 |
| **202473** | BCA324I-1S | 320 g x 0.1 mg | $4,400.00 |
| **202474** | BCA423I-1S | 420 g x 1 mg | $2,500.00 |
| **202475** | BCA623I-1S | 620 g x 1 mg | $3,000.00 |
| **202476** | BCA822I-1S | 820 g x 10 mg | $1,900.00 |
| **202477** | BCA1202I-1S | 1,200 g x 10 mg | $2,100.00 |
| **202478** | BCA1203I-1S | 1,200 g x 1 mg | $4,000.00 |
| **202479** | BCA2201I-1S | 2,200 g x 0.1 g | $1,800.00 |
| **202480** | BCA2202I-1S | 2,200 g x 10 mg | $2,300.00 |
| **202481** | BCA3202I-1S | 3,200 g x 10 mg | $2,500.00 |
| **202482** | BCA4202I-1S | 4,200 g x 10 mg | $2,600.00 |
| **202483** | BCA5201I-1S | 5,200 g x 0.1 g | $2,000.00 |
| **202484** | BCA6202I-1S | 6,200 g x 10 mg | $3,600.00 |
| **202485** | BCA8201I-1S | 8,200 g x 0.1 g | $2,400.00 |
| **202486** | BCA10201I-1S | 10,200 g x 0.1 g | $3,600.00 |
| **202487** | BCA12201I-1S | 12,200 g x 0.1 g | $3,800.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **112261** | YDP20-0CE | Data printer (requires power supply part number 191429) | $1,225.00 |
| **31103** | 6906937 | Paper rolls, one roll | $34.00 |
| **31106** | 6906918 | Ink ribbon cassette | $39.00 |
| **155805** | YCC01-USBM2 | Data cable RS-232/USB (for YDP20 Printer) | $160.00 |
| **191429** | 6971790 | AC adapter with interchangeable plugs (for use with Entris II or YDP20-0CE) | $78.00 |
| **202569** | YDP30-0CE | Data Printer, Thermal Transfer (USB to RS-232 155847 Cable Sold Separately) | $1,485.00 |
| **155847** | YCC03-D09 | USB to RS-232 Cable for YDP30 Printer | $59.00 |



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# MA35, MA37 and MA160

Moisture Analyzer Balances

## Standard Features

- High-speed measurements
- Effortless cleaning
- User-friendly operation
- Display of process status



*MA37* *MA160*

## Specifications

| | MA35 | MA37 | MA160 |
|---|---|---|---|
| **Part#** | **191983** | **165963** | **165964** |
| **List Price** | **$2,445.00** | **$3,710.00** | **$4,635.00** |
| Capacity (g) | 35 g | 70 g | 200 g |
| **Resolution (g)** | **0.001 g** | **0.001 g** | **0.01 g** |
| Heating Element | Infrared metal heating element | | Infrared radiation by an AURI heater, 600 W |
| Heating Mode | Standard drying | | Standard drying, gentle drying |
| Display Modes for Results | Moisture content in % M and g; dry matter in % S and g; ATRO in % M/S | | |
| Repeatability | For initial sample weight approx >1 ±0.2%; for initial sample weight >5 ±0.05% | | |
| Temperature Range and Settings | 40° C to 160° C | | |
| Data Interface | RS-232 | Mini USB | Mini USB |
| Operating Temperature | 10° C to 30° C | | |
| **Pan Size** | | **90 mm** | |
| Housing Dimensions (W x D x H) | 224 x 366 x 191 mm | 215 x 400 x 210 mm | 215 x 400 x 210 mm |
| Weight (approx.) | 58 kg | 6.2 kg | 6.2 kg |
| Calibration Weight (g) | 30 g | 50 g | 200 g |
| Power | 120/230 VAC multi-range adapter | | |
| **Warranty** | **Two-year Limited Warranty** | | |

## Part Number/Price

| Part# | Model# | Description | Price |
|---|---|---|---|
| **191983** | MA35 | 35 x 0.001 g | $2,645.00 |
| **165963** | MA37 | 70 x 0.001 g | $3,710.00 |
| **165964** | MA160 | 200 x 0.01 g | $4,635.00 |





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# AbleCable®

RS-232/USB Serial Smart Cable Direct, Keyboard Input Direct



119919



132452

## Specifications

**Baud Rate:**
9600

**Color:**
Black

**Cable Length:**
74 in (1880 mm)

**Bluetooth Cable Length:**
16 in (406 mm)

**Power:**
USB power, no external power supply

**Host:**
PC and MAC compliant

**Connection:**
DB9 male connector, Pin 2 RX, Pin 3 TX and Pin 5 Ground USBA connector

## Standard Features

- Converts serial data such as barcode reader or scale into keyboard input to software program
- Works with PC and MAC® computers
- Requires no driver installation (identifies itself as additional HID keyboard)
- Cable draws power from USB port (no external power supply needed)
- Test cable to be connected with adaptor scale cable or connector
- Bluetooth® version allows Bluetooth® connection to devices like iPad®, Playbook, Android® tablets and smart cell phones

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **119919** | RS-232/USB serial cable | 1 lb | $185.00 |
| **132452** | RS-232/USB serial cable plus Bluetooth® | 1 lb | $260.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **119064** | Slimline null modem, gender changer DB9 female to female | $10.50 |
| **22436** | Blunt-end to DB9 female, straight cable | $65.00 |
| **50749** | DB9 female to DB9 female | $55.00 |
| **130789** | Null model DB9 adapter female to male | $12.00 |





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## Specifications

**Baud Rate:**
9600

**Data Bits:**
8

**Parity:**
None

**Power:**
Requires 5 VDC

**Customer Supplied:**
Power and USB flash drive

**Industrial Enclosure Option:**
7.5 x 7.5 x 4.5 in (19 x 19 x 12 cm)
Latch for lock

**Warranty:**
One-year limited warranty




## Standard Features

- LED onboard for testing data transmission
- Captures data and stores it on a USB flash drive (up to 8 GB not included)
- Transfer data to your PC using the USB flash drive

**Text file examples (actual text will be dependent on transmitted file)**

- 02:50PM
  11/13/2012
  GROSS 58 lb
- 02:50PM
  11/13/2012
  GROSS 68 lb

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **153265** | go-between board, requires 5 Volts | $410.00 |
| **153266** | go-between industrial enclosure, requires 5 Volts | $600.00 |
| **153267** | go-between desk enclosure, power supply included | $500.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **154797** | Adapter, power 5 VDC 2A 90-264 VAC, U.S. plug, UL/CUL | $35.00 |
| **195607** | USB flash drive, 8 GB | $7.00 |
| **130789** | Null model DB9 adapter female to male | $12.00 |
| **119064** | Null modem adapter, DB9 F/F | $10.50 |
| **50764** | Straight cable, DB9 F/F | $59.00 |
| **66535** | Null modem DB9 F/F | $45.00 |
| **22436** | DB9 cable to blunt end | $65.00 |
| **15493** | Cable four-conductor | $1.35/ft |





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# Standard Balance Slab

Kasota Stone



PN 83779

*Reduces vibration and shock, ideal where tables will not fit*

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Standard Balance Slab, Kasota Stone** | | |
| **83779** | 15 in x 20 in x 3 in, 100 lb | $450.00 |
| **Clean Room Table, Granite** | | |
| **83780** | 24 in x 35 in x 32 in, 600 lb | $2,700.00 |
| **Standard Balance Table, Kasota Stone** | | |
| **83778** | 24 in x 35 in x 32 in, 700 lb | $1,200.00 |
| **Anti-Vibration Pad** | | |
| **75263** | Anti-vibration pad 4 x 4 1/2 in.-thick | $15.00 |

# Clean Room Table

Granite



PN 83780

*Mass, density and vibration damping properties for most applications (four damping pads included).*

# Standard Balance Table

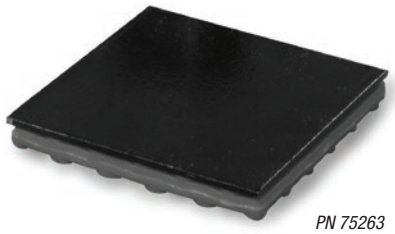
Kasota Stone



PN 83778

*Provides the most stable surface possible for precision instruments. Legs are reinforced with support pipe.*

# Anti-Vibration



PN 75263

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **33455** | Aluminum, 1.5 x 2.0 in (3.8 x 5.1 cm) | $29.00 |
| **33446** | Polypropylene, 12 x 6 x 2.75 in (304 x 152 x 70 mm) | $54.00 |
| **33447** | Stainless steel, 12 x 6 x 2.75 in (304 x 152 x 70 mm) | $127.00 |
| **33448** | Polypropylene Maxi-scoop, 10 in (254 mm) diameter x 2.5 in (70 mm) deep with pouring spout | $57.00 |
| **33454** | Black, aluminum 4.0 x 3.5 in (10.2 x 8.9 cm) | $36.00 |
| **33451** | Polypropylene Maxi-scoop | $40.00 |
| **97250** | Stainless steel scoop 11.9 x 7.4 x 1.7 in | $72.00 |
| **100292** | Stainless steel scoop 17.2 x 11 x 3.4 in | $89.00 |

# Scoops



PN 33447



PN 33455



PN 33451



PN 33454



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# Belt Scales

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**ESPAÑOL** | Visite **ricelake.com/spanish** para ver todos los materiales Rice Lake que están disponibles en español.


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# Master™ 311M

Medium to Heavy Capacity Weigh Frame




## Standard Features

- Semi-modular weigh frame design
- Weigh frame without moving parts
- Fits standard conveyors
- Mounts with four bolts
- Requires weigh frame cutting for proper fit
- Minimum modifications to conveyor required

## Options:

- Galvanized or stainless construction
- Custom widths available
- Custom lifting weights available on request

## Applications:

- Mining, quarries, bulk material blending, process control and retrofit

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **163296** | 311M belt scale weigh frame with 50 kg load cell | 125 lb | $1,305.00 |
| **163297** | 311M belt scale weigh frame with 100 kg load cell | 125 lb | $1,305.00 |
| **163298** | 311M belt scale weigh frame with 250 kg load cell | 125 lb | $1,305.00 |
| **Consult** | Lifting weight kit | | Consult |

*Please complete the Belt Scale Application on page 181 to obtain a quote*

## Specifications

**Conveyor Width:**
18 in in to 36 in (457 mm to 914 mm)

**Capacity:**
1,500 tons per hour

**Belt Speed:**
Maximum 400 feet per minute (2 m/s)

**Inclination:**
Maximum 12 degrees

**Material:**
Powder coated mild steel

**Accuracy System:**
1%

**Load Cell:**
RL1250: 50 kg, 100 kg, 250 kg

**Warranty:**
One-year limited warranty



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# Master™ 221DB

Medium to Heavy Capacity Belt Scale




## Specifications

**Conveyor Width:**
18 in to 72 in (457 mm to 1,829 mm)

**Capacity:**
3,300 tons per hour

**Maximum Belt Speed:**
800 feet per minute (4 m/s)

**Inclination:**
Maximum 25 degrees

**Material:**
Powder coated mild steel

**Accuracy System:**
0.5-1%

**Load Cell:**
RL9018SS: 50 kg, 100 kg, 200 kg

**Junction Box:**
JB4SS

**Warranty:**
One-year limited warranty

## Standard Features

- Weigh frame is mounted on outside of conveyor
- Minimum modifications to conveyor are required
- Service friendly
- Friction-free pivot supports
- Two support beams
- Fits standard conveyors - mounts with four bolts per assembly

## Options:

- Galvanized or stainless construction

## Applications:

- Medium to heavy capacity

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **163292** | 221DB belt scale with 50 kg load cells | 143 lb | $2,945.00 |
| **163293** | 221DB belt scale with 100 kg load cells | 143 lb | $2,945.00 |
| **163294** | 221DB belt scale with 200 kg load cells | 143 lb | $2,945.00 |
| **202591** | 221DB stainless steel belt scale with 50 kg load cells | 143 lb | $3,545.00 |
| **202592** | 221DB stainless steel belt scale with 100 kg load cells | 143 lb | $3,545.00 |
| **202593** | 221DB stainless steel belt scale with 200 kg load cells | 143 lb | $3,545.00 |

*Please complete the Belt Scale Application on page 181 to obtain a quote*





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# Master™ 211

Medium to Heavy Capacity Weigh Frame




## Standard Features

- Friction-free pivot points
- One load cell carrier beam
- Fits standard conveyors
- Custom built for each application

## Options:

- 304/316 Stainless steel
- Dual load cells
- Dual idler
- Custom lifting weights available on request

## Applications:

- Medium to heavy capacity, mining and agriculture
- The 211 model consists of an inner frame that is mounted in two friction-free pivots on one end and at a load cell on the other end. An idler is mounted on the inner frame. The pivots absorb the tensile stress in horizontal direction, creating a very solid weighing frame that is also suited for heavy-duty applications.

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Consult** | Master 211 | Consult |
| **Consult** | Lifting weight kit | Consult |

*Please complete the Belt Scale Application on page 181 to obtain a quote*

## Specifications

**Conveyor Width:**
20 in to 80 in (500 mm to 2,000 mm)

**Capacity:**
3,000 tons per hour

**Maximum Belt Speed:**
800 feet per minute (4 m/s)

**Maximum Inclination:**
25 degrees

**Material:**
Powder coated mild steel

**Accuracy System:**
0.5 %

**Load Cell:**
RL20001 alloy steel, s-beam (capacity selected from application)

**Warranty:**
One-year limited warranty



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# Master™ 14X

Medium to Heavy Capacity Weigh Frame



## Specifications

**Conveyor Width:**
20 in to 120 in (500 mm to 3,000 mm)

**Capacity:**
20,000 tons per hour

**Belt Speed:**
1,400 feet per minute (7 m/s)

**Inclination:**
25 degrees

**Material:**
Powder coated mild steel

**Accuracy Guidelines:**
0.25 %

**Load Cell:**
RL20001 alloy steel s-beam
(capacity selected from application)

**Warranty:**
One-year limited warranty

## Standard Features

- Custom built for each application
- Fits standard conveyors
- Multiple idler design
- Inner frame free, floating platform

## Options:

- 304 Stainless steel
- Two, three or four weigh idlers
- Custom lifting weights available on request

## Applications:

- Medium to heavy capacity, mining and aggregate

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Consult** | Master 142 | Consult |
| **Consult** | Master 143 | Consult |
| **Consult** | Master 144 | Consult |
| **Consult** | Lifting weight kit | Consult |

*Please complete the Belt Scale Application on page 181 to obtain a quote*

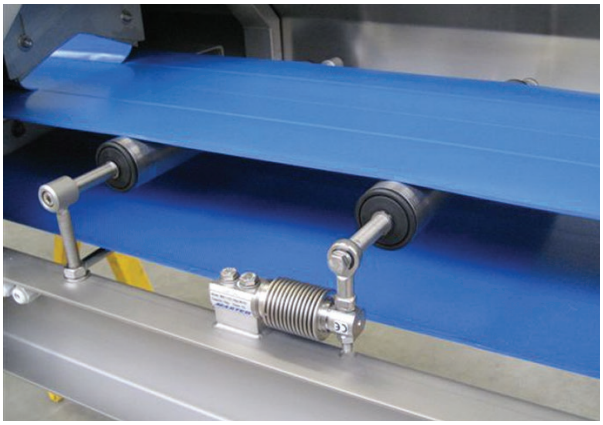




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# Master™ 421

Light Capacity Weigh Frame



## Standard Features

- Ideal for flat belt conveyors
- Roller supported on both sides by load cells
- Open design for easy cleaning

## Applications:

- Light capacity, food production and light granular materials

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Consult** | 421 weigh frame | $2,455.00 |

*Please complete the Belt Scale Application on page 181 to obtain a quote*

## Specifications

**Conveyor Width:**
12 in to 60 in (300 mm to 1,600 mm)

**Capacity:**
30 tons per hour

**Belt Speed:**
400 feet per minute (2 m/s)

**Inclination:**
10 degrees

**Material:**
Powder coated mild steel / 304 / 316 stainless steel

**Accuracy Systems:**
0.5 %

**Load Cell:**
RL9018SS single ended beam in 10, 20 or 50 kg capacities

**Warranty:**
One-year limited warranty



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## Specifications

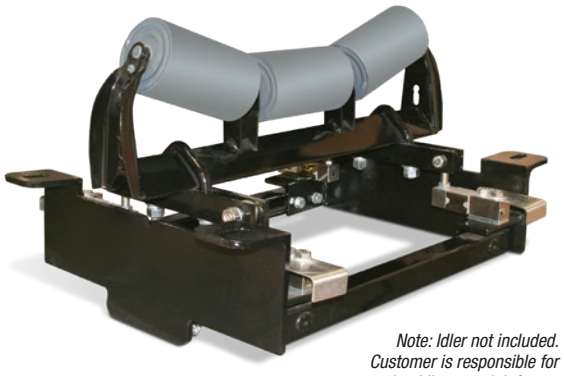
**Conveyor Widths:**
18 in to 72 in

**Capacity:**
Up to 10,000 tons per hour

**Belt Speed:**
Up to 1,200 feet per minute

**Accuracy Guidelines:**
Single-two idler system: 0.5%-1% total error
Three-four idler system: <0.5% total error

**System Accuracy:**
Guidelines assume clean belt with automatic tensioning system. Accuracy guidelines are typical. System accuracy may vary depending on environmental influences.



*Note: Idler not included. Customer is responsible for mounting idler to weigh frame.*

## Standard Features

- Experience durability and accuracy with Rice Lake's rugged BCi belt scale weigh frame. Built to last, the BCi is one of the most accurate belt scales in its class. Ideal for mining, quarries, bulk material blending, process control operations and load-out applications, the BCi easily handles capacities up to 10,000 tons per hour with unsurpassed accuracy.

## Applications

- Mining, quarries, bulk material blending, process control, utilities, truck/barge/rail loading and retrofit

## Part Number/Price

| Part # | Description | Est. Belt Width | Capacity | Price |
|---|---|---|---|---|
| **Mild Steel Weigh Frames** | | | | |
| **94968** | 24 in weigh frame | 18 in | 500 lb | $2,177.00 |
| **95208** | 30 in weigh frame | 24 in | 500 lb | $2,177.00 |
| **95209** | 36 in weigh frame | 30 in | 500 lb | $2,177.00 |
| **95210** | 42 in weigh frame | 36 in | 500 lb | $2,177.00 |
| **95211** | 48 in weigh frame | 42 in | 500 lb | $2,177.00 |
| **95212** | 54 in weigh frame | 48 in | 500 lb | $2,177.00 |
| **96717** | 60 in weigh frame | 54 in | 1,000 lb | $2,177.00 |
| **96718** | 66 in weigh frame | 60 in | 1,000 lb | $2,177.00 |
| **96719** | 72 in weigh frame | 66 in | 1,000 lb | $2,177.00 |
| **Consult** | Light-capacity weigh frames | | | $2,943.00 |
| **Stainless Steel Weigh Frames** | | | | |
| **110839** | 24 in weigh frame | 18 in | 500 lb | $3,156.00 |
| **105246** | 30 in weigh frame | 24 in | 500 lb | $3,156.00 |
| **110841** | 36 in weigh frame | 30 in | 500 lb | $3,156.00 |
| **110842** | 42 in weigh frame | 36 in | 500 lb | $3,156.00 |
| **110843** | 48 in weigh frame | 42 in | 500 lb | $3,156.00 |
| **110844** | 54 in weigh frame | 48 in | 500 lb | $3,156.00 |
| **110845** | 60 in weigh frame | 54 in | 500 lb | $3,156.00 |
| **110846** | 66 in weigh frame | 60 in | 500 lb | $3,156.00 |
| **110847** | 72 in weigh frame | 66 in | 500 lb | $3,156.00 |
| **Consult** | Light-capacity weigh frames | | | $4,248.00 |
| **Weigh Frame Accessories** | | | | |
| **97413** | Shim, plastic 1/16 in thick | | | $0.35 |
| **97414** | Shim, plastic 1/8 in thick | | | $0.40 |
| **97415** | Shim, plastic 1/4 in thick | | | $0.60 |
| **97416** | Kit, shim 50 each 1/16 in, 1/8 in and 1/4 in thick | | | $55.00 |

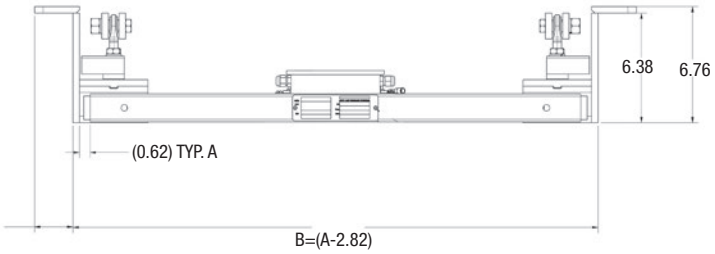
*Please complete the Belt Scale Application on page 181 to obtain a quote*

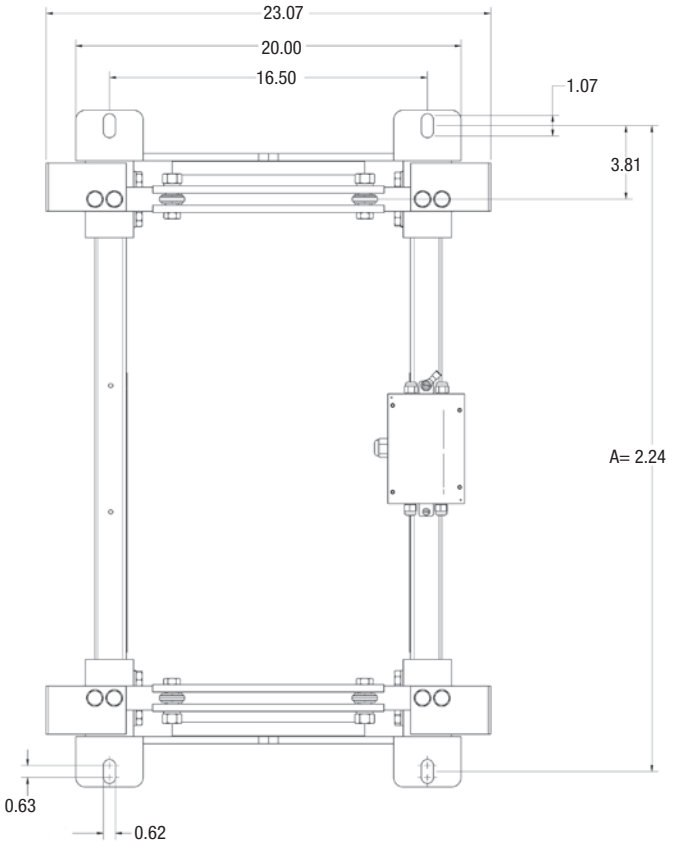




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# BCi
In-Motion Belt Scale System




*Note: Cables on drawings removed for clarity. Idler mounting hardware is not included in weigh frame, see idler mounting bolts above.*



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# 920i® Belt Scale Integrator

## Specifications

**Line Voltages:**
115 or 230 VAC,
Frequency: 50 or 60 Hz

**Power Consumption:**
340 mA, maximum at 115 VAC (26 W)
240 mA at 230 VAC (26 W)

**Excitation Voltage:**
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

**Analog Signal Input Range:**
-10 mV to +45 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation typical at 120 Hz
4.0 µV/graduation typical at 960 Hz

**A/D sample rate:**
7.5 to 960 Hz, software selectable

**Resolution:**
Internal Resolution: 8 million counts/8,000,000

**Weight Display Resolution:**
9,999,999

**System Linearity:**
± 0.01% full scale

**Digital I/O:**
Six I/O channels on CPU board; optional 24-channel I/O expansion boards available

**Circuit Protection:**
RFI, EMI, ESD protection

**Serial Ports:**
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

**Display:**
(W x H) 4.6 x 3.4 in (116 x 86 mm)
320 x 240 pixel VGA liquid crystal display (LCD) module with adjustable contrast

**Keyboard:**
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Industrial:**
14° F to 122° F (-10° C to 50° C)

**Dimensions:**
Universal: (W x H x D) 10.5 x 10.9 x 4.5 in (266 x 215 x 114 mm)
Deep Universal: (W x H x D) 10.75 x 10.75 x 5.4 in (273 x 273 x 137 mm)

**Weight:**
Panel Mount Enclosure: 8.5 lb (3.9 kg)
Deep Universal: 11 lb (5.0 kg)

**Rating/Material:**
NEMA Type 4X/IP66, stainless steel

**Warranty:**
Two-year limited warranty on integrator and load cells

**Approvals:**
CE Marked
UL and C-UL listed (universal, deep and wall mount enclosure)
Custom wall mount approved for 508A (optional)
Panel mount UL recognized



*920i® Integrator*

## Standard Features

- Large (W x H) 4.6 x 3.4 in 320 x 240 pixel backlit LCD graphical display
- NEMA Type 4X/IP66 stainless steel display enclosure
- Four bidirectional communication ports
- Rate and speed time displayed by the hour, minute or second
- Measurement displayed in feet or meters
- Unit of rate displayed in tons, pounds, kilograms, metric tons or long tons
- Digital I/O for totalizer
- Optional analog and alarm outputs
- For added security, integrator has the ability to be password protected
- Optional communication protocol cards include ControlNet, Rockwell Automation's DeviceNet, Rockwell Automation's Remote I/O, Rockwell Automation's EtherNet IP, Profibus DP, 0-10 VAC or 4-20 mA analog output, Ethernet TCP/IP,
- Standard communication RS-232, RS-485, 20 mA current loop
- Built-in support for ticket printing

**APPROVALS**

c UL us LISTED

CE

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Integrators** | | |
| **95214** | Belt scale integrator 115 VAC, deep enclosure | $2,525.00 |
| **95215** | Belt scale integrator 230 VAC, deep enclosure | $2,525.00 |
| **170693** | Belt scale integrator, panel mount | $2,525.00 |
| **170694** | Belt scale integrator, wall mount | $2,975.00 |
| **107615** | Belt scale integrator with UPS 115 VAC | $2,625.00 |
| **107616** | Belt scale integrator with UPS 230 VAC | $2,625.00 |
| **120550** | Belt scale integrator with deep enclosure, two slot expansion, EtherNet IP for A-B, 115 V | $3,625.00 |
| **120551** | Belt scale integrator with deep enclosure, two slot expansion, EtherNet IP for A-B, 230 V | $3,625.00 |
| **150811** | Belt scale integrator with deep enclosure, two slot expansion, analog output | $3,175.00 |
| **69782** | Two-slot expansion board (wall mount) | $300.00 |
| **71743** | Two-slot expansion board (panel mount & deep universal) | $300.00 |
| **98057** | Ethernet TCP/IP, wireless LAN card 802.11 B/G | $650.00 |
| **87803** | Ethernet IP (specifically for A-B PLC) | $800.00 |
| **67602** | Analog output: selectable 0-10V, 0-20 mA | $310.00 |

*Please complete the Belt Scale Application on page 181 to obtain a firm quote*
*See Indicators for additional 920i options*



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# 882D Belt Scale Integrator




## Standard Features

- LCD display, 0.8 in seven-digit, seven-segment weight display, 3 x 20 pixelated prompt area
- RS-232 or RS-485 serial port
- USB device port connects directly to a PC
- Ethernet TCP/IP polled or continuous
- AC or DC models
- Hardware slot for two option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time & date and setpoints
- Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes.
- Setpoints for control and alarms
- Four onboard digital I/O channels
- Four programmable ticket formats up to 1,000 characters
- Filter settings for light, medium and heavy noise
- Speed inputs

## Approvals

c UL us LISTED

CE

## Specifications

**Power**
Input voltages: 100-240 VAC; 9-36 VDC
Input frequency: 47-63 Hz

**Power Consumption:**
AC: 15 watts; DC: 20 watts

**Excitation Voltage:**
10 VDC 8 x 350 Ω (16 x 700 Ω) load cells

**Analog Signal Input Range:**
-45 mV to 45 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz;
1.0 µV/graduation typical at 120 Hz

**Sample Rate:**
7.5 to 120 Hz, software selectable

**Resolution:**
Internal: 8 million counts 23 bit weight display: 100,000

**System Linearity:**
± 0.01% full scale

**Digital I/O:**
Four I/O onboard primary keys, pseudo functions, batching functions

**Circuit Protection:**
18 KV, 10 V/meter

**Communication Ports:**
RS-232 full duplex or RS-485 half duplex; USB micro A/B connector 2.0; Ethernet TCP/IP

**Pulse Input:**
Dual inputs for redundancy

**Display:**
LCD display, seven-digit, seven-segment weight display, 3 x 20 pixelated prompt area

**Status Annunciators:**
Load, total, rate, speed, zero

**Keyboard:**
Flat membrane panel, tactile feel

**Operating Temperature:**
Industrial: 14° F to 122° F (-10° C to 50° C)

**Dimensions (W x H x D):**
9.87 x 9.38 x 4.33

**Weight:**
12 lb (5.4 kg)

**Material:**
Stainless steel

**Rating:**
IP66

**Warranty:**
Two-year limited warranty

**Approvals:**
CE Marked (pending)
UL/c-UL Listed (pending)



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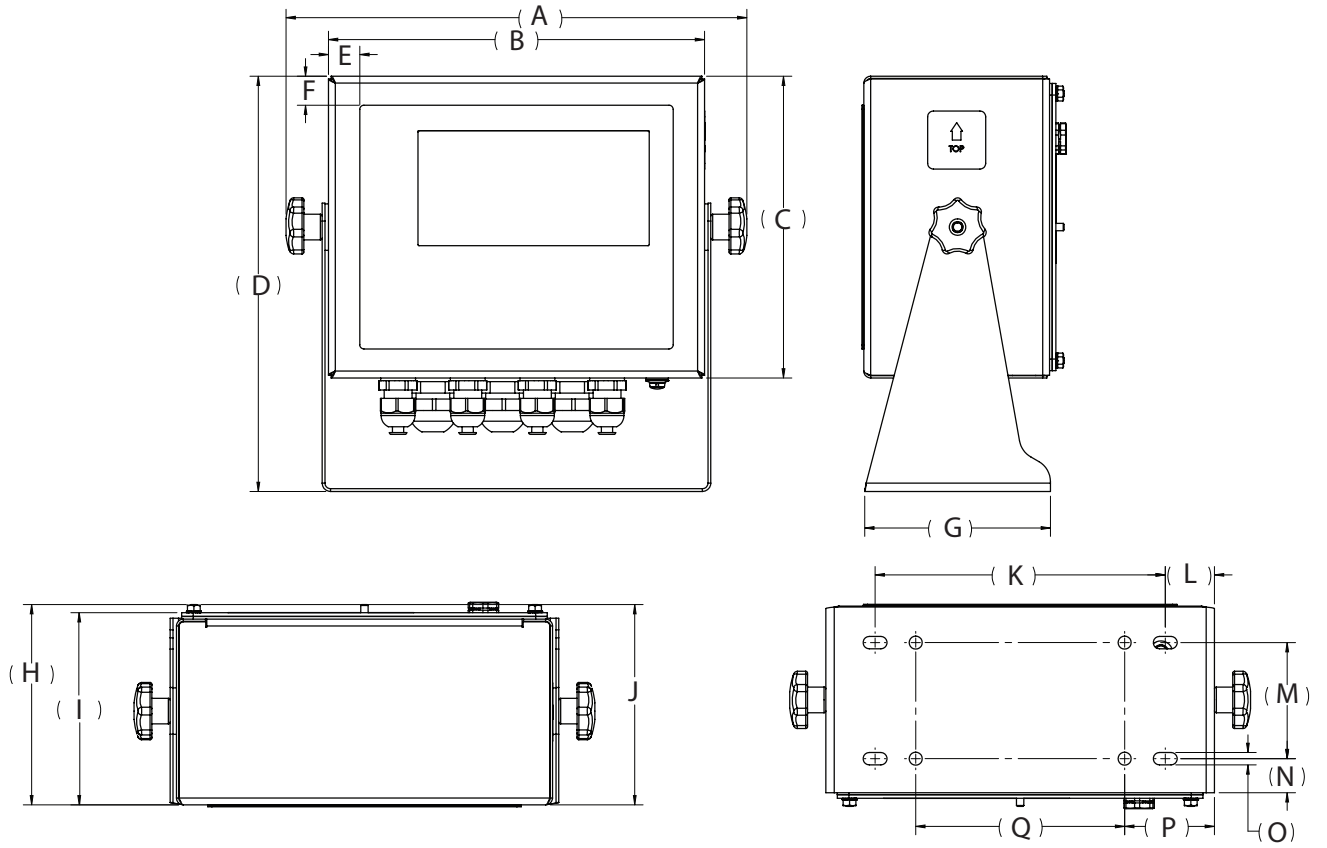
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Integrators** | | |
| **177708** | 120VAC | $1,838.00 |
| **180847** | 220VAC Euro power cord | $1,838.00 |
| **184683** | 9-36VDC | $1,977.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **190527** | 882D option, digital I/O | $310.00 |
| **190528** | 882D option, single analog out | $360.00 |
| **190529** | 882D option, relay interface | $410.00 |
| **177850** | Panel mount kit | $175.00 |
| **Network Cards** | | |
| **190530** | 882D option, Ethernet/IP | $575.00 |
| **190531** | 882D option, DeviceNet | $575.00 |
| **190532** | 882D option, ProfiNet | $575.00 |
| **190534** | 882D option, Profibus | $575.00 |
| **190533** | 882D option, Modbus TCP | $575.00 |
| **190535** | 882D option, EtherCAT | $575.00 |

*Please complete the Belt Scale Application on page 181 to obtain a quote*




| Dimensions | | | |
|---|---|---|---|
| A | 9.93 in (252.2 mm) | J | 4.32 in (109.7 mm) |
| B | 8.10 in (205.7 mm) | K | 6.25 in (158.8 mm) |
| C | 6.50 in (165.1 mm) | L | 1.06 in (26.9 mm) |
| D | 8.94 in (227.1 mm) | M | 2.50 in (63.5 mm) |
| E | 0.68 in (17.3 mm) | N | 0.73 in (18.5 mm) |
| F | 0.63 in (16 mm) | O | 0.27 in (6.9 mm) |
| G | 4.00 in (101.6 mm) | P | 1.93 in (49 mm) |
| H | 4.31 in (109.5 mm) | Q | 4.50 in (114.3 mm) |
| I | 4.14 in (105.2 mm) | | |





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# Belt Scale Accessories



*High-resolution Speed Sensor*



*Magnetic Coupler*



*Speed Wheel*



*Speed Sensors 125334 and 163319*

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Speed Sensing** | | |
| **152626** | 500 PPR high-resolution encoder kit, requires 152247 if magnetic coupling is required | $1,259.00 |
| **152247** | Magnetic coupler, use with 152626 | $352.00 |
| **125334** | Speed sensor, belt scale 50 PPR (generator type) | $846.00 |
| **163319** | Speed sensor, belt scale 600 PPR (encoder type) | $979.00 |
| **94969** | Speed wheel assembly, 10 PPR NPN Configuration | $760.00 |
| **Idler Mounting Bolts (Set of Two)** | | |
| **126282** | 3 in angle iron base | $87.00 |
| **126283** | 4 in angle iron base | $98.00 |
| **Static Weights** | | |
| **99708** | 15 lb weight | $158.00 |
| **99709** | 30 lb weight | $214.00 |
| **99696** | 3 in static weight mounting bracket (set of two) | $433.00 |
| **99922** | 4 in static weight mounting bracket (set of two) | $489.00 |
| **Speed Sensor Replacement Parts** | | |
| **94979** | Sensor proximity | $107.00 |
| **98320** | Shoulder bolt | $14.00 |
| **95216** | Bushing, speed wheel | $12.00 |
| **192927** | Coupler, replacement for 125334 and 163319 | $112.00 |
| **Accessories** | | |
| **21161** | Junction box, splice single cell | $66.00 |
| **98501** | Cable, load cell custom, 20 ft EL146HE | $28.00 |

*Idler hardware not included with weigh frames*



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# Belt Scale Application

RICE LAKE WEIGHING SYSTEMS

Company_____ Prepared By_____ Date_____

Address _____

City_____State/Zip/Country _____

Phone_____ Fax_____Email _____

Application Notes:

_____

_____

## MATERIAL

Material being measured_____Bulk Density (lb/cu. ft)

Corrosive state of material (choose one) ☐ High ☐ Moderate ☐ Not Corrosive

Feed Rate t/hr: _____ min. _____ max. Accuracy Required: +/- _____%

Constant Feed Rate: ☐ Yes ☐ No

## CONVEYOR

(Supply sketch where possible) ☐ Sketch attached

Application: ☐ Inventory ☐ Load out ☐ Control ☐ Blending

Profile: ☐ Horizontal ☐ Incline/decline _____ (deg) ☐ Variable Incline _____ (deg) ☐ Curved

Automatic tensioning apparatus: ☐ Yes ☐ No

Access side: (looking in direction of belt travel) ☐ Left ☐ Right ☐ Both

Is area classified as an explosive environment? ☐ Yes ☐ No

Does the current conveyor have scale grade idlers? ☐ Yes ☐ No

Belt speed (ft/m per minute): _____ min. _____ max.

Condition of belt? _____

What type of splice does the belt have? _____

Belt length: _____ ft/m Belt width:_____ in/cm Belt cleaning device: ☐Yes ☐No

Idler diameter: _____ in/cm Idler spacing: _____ in/cm Tail pulley diameter: in/cm

Trough angle: _____ degrees Conveyor length: _____ft/m

## INTEGRATOR REQUIREMENTS

Integrator type: ☐ Deep universal ☐ Panel mount ☐ Wall mount

Power available: ☐ 115V ☐ 230V ☐ 9-36VDC

Communications: ☐ AB remote I/O ☐ Device net ☐ Profibus-DP ☐ Ethernet IP

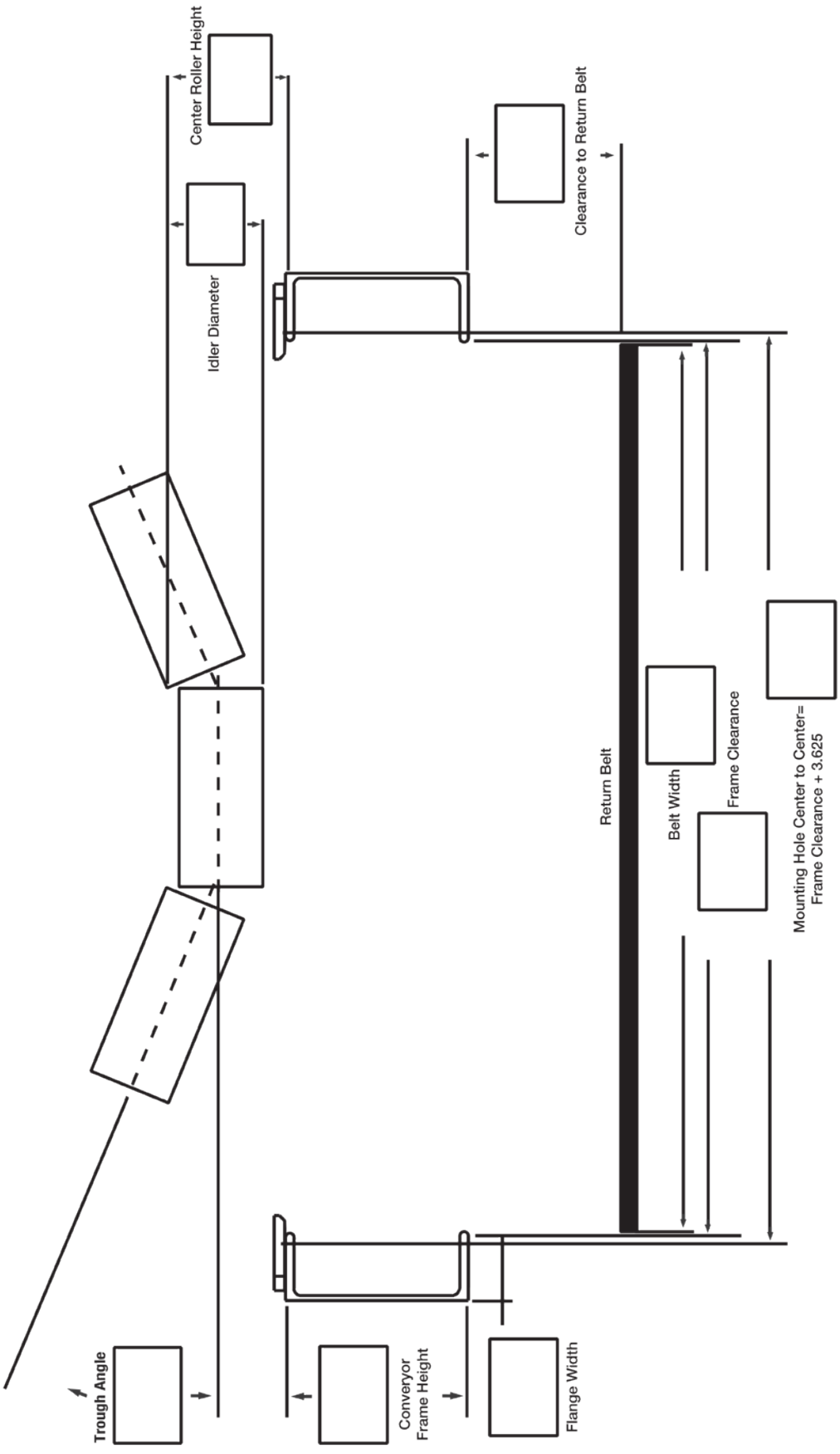
☐ Analog output ☐ RS-232 (standard) ☐ Ethernet TCP/IP ☐ Control Net

Remote Display Rate: ☐ Yes ☐ No Remote Display Totalizer: ☐ Yes ☐ No

Speed sensor: ☐ Speed wheel ☐ Shaft encoder ☐ Magnet

☐ Printer: Model _____

# Belt Scale Application



# Bench Scales

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# BenchMark® SL

Light-capacity Bench Scales







## Standard Features

- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces
- NTEP Certified IP66 aluminum load cell

## APPROVALS

## Specifications

**Load Cell, NTEP Certified:**
IP66 aluminum and environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%

**Overload Protection:**
Shock-absorbing spider

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
Load cell is cFMus approved



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## Part Number/Price

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **18575*** | 2 lb (1 kg) | 10 x 10 x 3.15 in | 13 lb | $640.00 |
| **18576** | 5 lb (2.5 kg) | 10 x 10 x 3.15 in | 13 lb | $640.00 |
| **18577** | 10 lb (5 kg) | 10 x 10 x 3.15 in | 13 lb | $640.00 |
| **18578** | 20 lb (10 kg) | 10 x 10 x 3.15 in | 13 lb | $640.00 |
| **18579** | 30 lb (15 kg) | 10 x 10 x 3.15 in | 13 lb | $640.00 |
| **32914** | 30 lb (15 kg) | 12 x 12 x 3.25 in | 14 lb | $720.00 |
| **32913** | 50 lb (25 kg) | 12 x 12 x 3.25 in | 14 lb | $720.00 |
| **35198** | 100 lb (50 kg) | 12 x 12 x 3.25 in | 14 lb | $720.00 |

## Options/Accessories

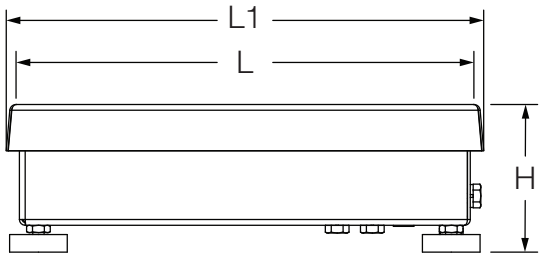
| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

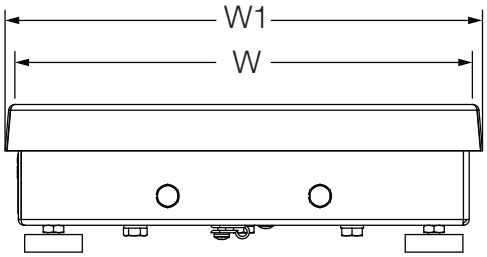
## Dimensions

| Part # | Capacity | Platform Size (L x W) | L1/W1 | H |
|---|---|---|---|---|
| **18575*** | 2 lb (1 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **18576** | 5 lb (2.5 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **18577** | 10 lb (5 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **18578** | 20 lb (10 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **18579** | 30 lb (15 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **32914** | 30 lb (15 kg) | 12 x 12 in | 12.25 in | 3.25 in |
| **32913** | 50 lb (25 kg) | 12 x 12 in | 12.25 in | 3.25 in |
| **35198** | 100 lb (50 kg) | 12 x 12 in | 12.25 in | 3.25 in |

**Non-NTEP or Measurement Canada approved*

*Note: 1"=25.4 mm*








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# BenchMark® CW-80B

Light-capacity Bench Scales







## Standard Features

- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces
- NTEP Certified, IP67 stainless steel load cell

## APPROVALS

## Specifications

**Load Cell, NTEP Certified:**
IP67 stainless steel and environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%

**Overload Protection:**
Shock-absorbing spider

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 96-107, Class III, 3000 d,
Measurement Canada AM-5156, Class III 3,000 d
Load cell is FM approved



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## Part Number/Price

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **35075** | 6 lb (3 kg) | 10 x 10 x 3.15 in | 13 lb | $770.00 |
| **35076** | 10 lb (5 kg) | 10 x 10 x 3.15 in | 13 lb | $770.00 |
| **35077** | 15 lb (7 kg) | 10 x 10 x 3.15 in | 13 lb | $770.00 |
| **35078** | 30 lb (15 kg) | 10 x 10 x 3.15 in | 13 lb | $770.00 |
| **35079** | 30 lb (15 kg) | 12 x 12 x 3.25 in | 14 lb | $850.00 |
| **35080** | 60 lb (30 kg) | 12 x 12 x 3.25 in | 14 lb | $850.00 |

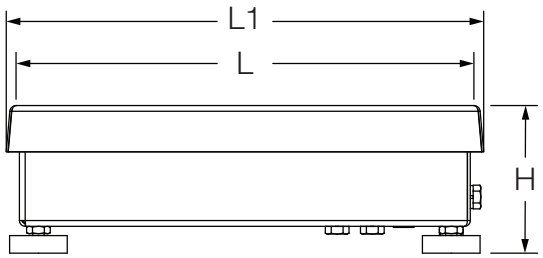
## Options/Accessories

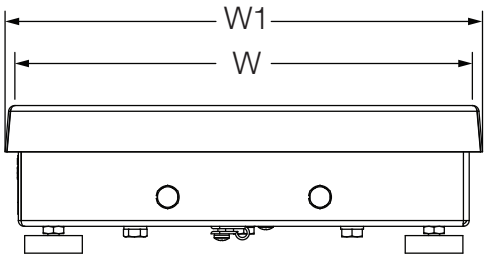
| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

## Dimensions

| Part# | Capacity | Platform Size (L x W) | L1/W1 | H |
|---|---|---|---|---|
| **35075** | 6 lb (3 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **35076** | 10 lb (5 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **35077** | 15 lb (7 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **35078** | 30 lb (15 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **35079** | 30 lb (15 kg) | 12 x 12 in | 12.25 in | 3.25 in |
| **35080** | 60 lb (30 kg) | 12 x 12 in | 12.25 in | 3.25 in |

*Note: 1"=25.4 mm*








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# BenchMark® SL/HE

Light-capacity Bench Scales







## Standard Features

- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces
- NTEP Certified, IP69K stainless steel, hermetically sealed load cell

## APPROVALS

## Specifications

**Load Cell, NTEP Certified:**
IP69K stainless steel, hermetically sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%, except 150% for 30 lb

**Overload Protection:**
Shock-absorbing spider

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Three-year limited warranty
(includes water ingress)

**Approvals:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
Load cell is FM approved



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## Part Number/Price

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **86942** | 5 lb (2.5 kg) | 10 x 10 x 3.15 in | 13 lb | $1,155.00 |
| **86943** | 10 lb (5 kg) | 10 x 10 x 3.15 in | 13 lb | $1,155.00 |
| **86944** | 20 lb (10 kg) | 10 x 10 x 3.15 in | 13 lb | $1,155.00 |
| **86945** | 30 lb (15 kg) | 10 x 10 x 3.15 in | 13 lb | $1,155.00 |
| **86946** | 30 lb (15 kg) | 12 x 12 x 3.25 in | 13 lb | $1,235.00 |
| **86947** | 50 lb (25 kg) | 12 x 12 x 3.25 in | 14 lb | $1,235.00 |
| **86948** | 100 lb (50 kg) | 12 x 12 x 3.25 in | 14 lb | $1,235.00 |

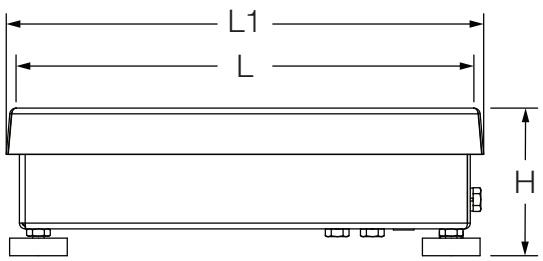
## Options/Accessories

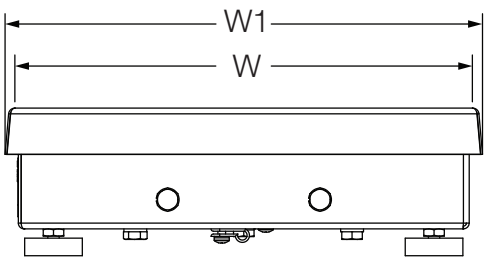
| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

## Dimensions

| Part # | Capacity | Platform Size (L x W) | L1/W1 | H |
|---|---|---|---|---|
| **86942** | 5 lb (2.5 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **86943** | 10 lb (5 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **86944** | 20 lb (10 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **86945** | 30 lb (15 kg) | 10 x 10 in | 10.25 in | 3.15 in |
| **86946** | 30 lb (15 kg) | 12 x 12 in | 12.25 in | 3.25 in |
| **86947** | 50 lb (25 kg) | 12 x 12 in | 12.25 in | 3.25 in |
| **86948** | 100 lb (50 kg) | 12 x 12 in | 12.25 in | 3.25 in |

*Note: 1"=25.4 mm*



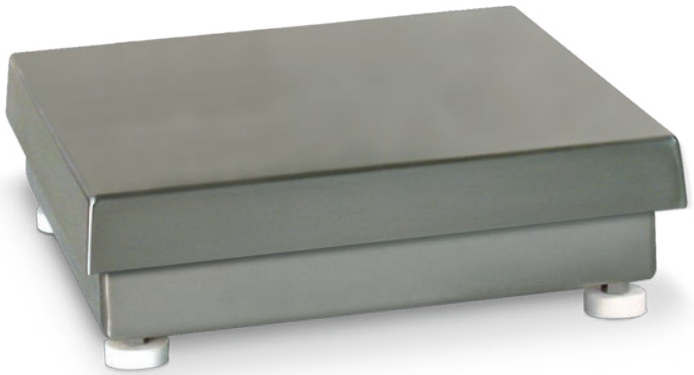





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# CW-90B

Light-capacity Bench Scales







## Specifications

**Load Cell, NTEP Certified:**
IP67 aluminum and environmentally sealed

**Output Impedance:**
350

**Maximum Overload:**
180 to 200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
34 in or 10 ft

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Approvals:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
Load cell is cFMus

**Warranty:**
Two-year limited warranty

## Standard Features

- 304 stainless steel construction
- Meets HACCP requirements
- Five-point overload protection
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces
- IP67 Aluminum environmentally sealed load cell

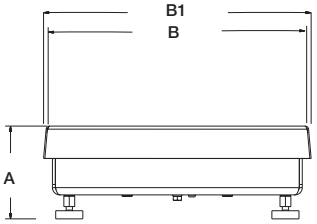
## APPROVALS

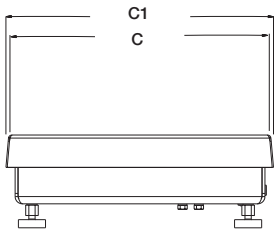
## Part Number/Price

| Part # | | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|---|
| 10 ft cable | 34 in cable | | | | |
| **112599** | **106137** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 14 lb | $590.00 |
| **112601** | **106138** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 14 lb | $590.00 |
| **112603** | **106139** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 14 lb | $590.00 |
| **112605** | **106140** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 17 lb | $670.00 |
| **112607** | **106141** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 17 lb | $670.00 |
| **112609** | **106142** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 17 lb | $670.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |




| Drawing Dimensions | | | |
|---|---|---|---|
| **10 in x 10 in** | | | |
| A | 4.25 in (107.95 mm) | C | 10 in (254 mm) |
| B | 10 in (254 mm) | C1 | 10.25 in (260.35 mm) |
| B1 | 10.25 in (260.35 mm) | | |
| **12 in x 12 in** | | | |
| A | 4.25 in (107.95 mm) | C | 12.0 in (304.8 mm) |
| B | 12.0 in (304.8 mm) | C1 | 12.25 (311.15 mm) |
| B1 | 12.25 (311.15 mm) | | |



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# CW-90XB

Light-capacity Bench Scales

## Specifications

**Load Cell, NTEP Certified:**
IP69K stainless steel and hermetically sealed

**Output Impedance:**
350

**Maximum Overload:**
180 to 200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
34 in or 10 ft

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Approvals:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
Load cell is FM approved

**Warranty:**
Three-year limited warranty (includes water ingress)



## Standard Features

- 304 stainless steel construction
- Meets HACCP requirements
- Five-point overload protection
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces
- IP69K, stainless steel hermetically sealed load cell

## APPROVALS

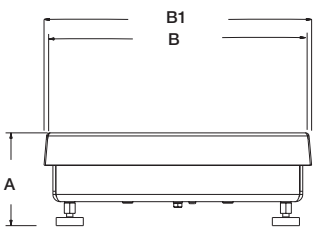
## Part Number/Price

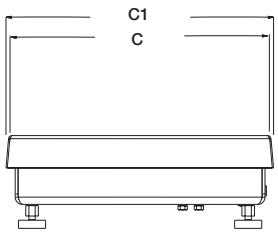
| Part # | | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|---|
| 10 ft Cable | 34 in Cable | | | | |
| **112600** | **106143** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 14 lb | $1,090.00 |
| **112602** | **106144** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 14 lb | $1,090.00 |
| **112604** | **106145** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 14 lb | $1,090.00 |
| **112606** | **106146** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 17 lb | $1,170.00 |
| **112608** | **106147** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 17 lb | $1,170.00 |
| **112610** | **106148** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 17 lb | $1,170.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

| Drawing Dimensions | | | |
|---|---|---|---|
| **10 in x 10 in** | | | |
| A | 4.25 in (107.95 mm) | C | 10 in (254 mm) |
| B | 10 in (254 mm) | C1 | 10.25 in (260.35 mm) |
| B1 | 10.25 in (260.35 mm) | | |
| **12 in x 12 in** | | | |
| A | 4.25 in (107.95 mm) | C | 12.0 in (304.8 mm) |
| B | 12.0 in (304.8 mm) | C1 | 12.25 (311.15 mm) |
| B1 | 12.25 (311.15 mm) | | |




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# NEW
# CW-90B Ready-n-Weigh Bench Scale System

Bench Scale and Indicator Package




## Standard Features

- Package includes scale with IP67 aluminum environmentally sealed load cell with an indicator and 12-inch column
- Factory calibrated, with indicator setup and configured for 5,000 divisions
- Scale includes rubber feet to provide exceptional traction and avoid scratching surfaces along with removable top cover for ease of cleaning.
- AC Power 100-240VAC (480/480 Plus, 482/482Plus, 680 Synergy Series)
- Battery Power (482/482 Plus internal battery) which is ideal for portable applications
- Indicator display type for a variety of environments. LED display (480/480Plus, 680 Synergy Series); LCD backlit display (482/482 Plus)
- Battery backed time and date
- Standard RS-232 serial ports for connecting to a variety of peripherals
- Ethernet TCP/IP comes standard with the 680 Synergy Series but is sold as an option for the 480/480Plus and 482/482 Plus

## APPROVALS

## Specifications

**Load Cell, NTEP Certified:**
IP67 aluminum, environmentally sealed

**Scale Construction:**
304 stainless steel

**Maximum Overload:**
180 to 200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
34 in

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

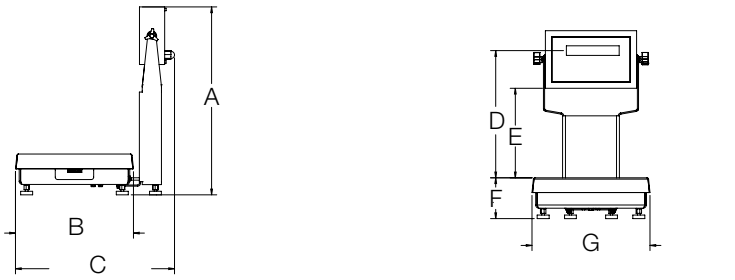
**CW-90B Approvals:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
Load cell is cFMus approved

**480/480 Plus Legend Approvals:**
NTEP CC 12-123
Measurement Canada AM-5892
CE Marked
UL/cUL Listed

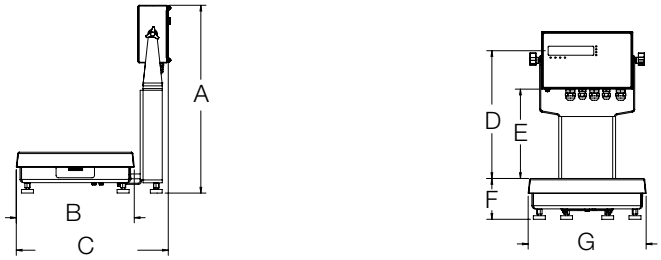
**482/482 Plus Legend Approvals:**
NTEP CC 12-123
Measurement Canada AM-5892
CE Marked
UL/cUL Listed

**680 Synergy Series Approvals:**
NTEP CC 12-123
Measurement Canada AM-5892
UL/cUL Listed
CE Marked

**Warranty:**
Two-year limited warranty




*CW-90B with 480/482 indicator*




*CW-90B with 680 indicator*

| Drawing Dimensions | | | |
|---|---|---|---|
| **480/480 Plus; 482/482 Plus** | | | |
| **10 in x 10 in** | | | |
| A | 19.50 in (495.3 mm) | E | 9.25 in (235 mm) |
| B | 10.25 in (260.4 mm) | F | 4.25 in (108 mm) |
| C | 14.53 in (369.1 mm) | G | 10.25 in (260.35 mm) |
| D | 13.25 in (336.6 mm) | | |
| **12 in x 12 in** | | | |
| A | 19.50 in (495.3 mm) | E | 9.25 in (235 mm) |
| B | 12.25 in (311.2 mm) | F | 4.25 in (108 mm) |
| C | 16.53 in (420 mm) | G | 12.25 in (311.2 mm) |
| D | 13.25 in (336.6 mm) | | |

| 680 | | | |
|---|---|---|---|
| **10 in x 10 in** | | | |
| A | 19.56 in (496.8 mm) | E | 9.31 in (236.5 mm) |
| B | 10.25 in (260.4 mm) | F | 4.25 in (108 mm) |
| C | 15.83 in (402.1 mm) | G | 10.25 in (260.35 mm) |
| D | 13.31 in (338.1 mm) | | |
| **12 in x 12 in** | | | |
| A | 19.56 in (496.8 mm) | E | 9.31 in (236.5 mm) |
| B | 12.25 in (311.2 mm) | F | 4.25 in (108 mm) |
| C | 16.83 in (427.5 mm) | G | 12.25 in (311.2 mm) |
| D | 13.31 in (338.1 mm) | | |



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# CW-90B Ready-n-Weigh Bench Scale System

Bench Scale and Indicator Package

## CW-90B with 480 Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LED, US Plug-Type B** | | | | |
| **201157** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201158** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201159** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201160** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201161** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201162** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **90-264 VAC, LED, Euro Plug-Type E** | | | | |
| **201169** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201170** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201171** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201172** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201173** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201174** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |

## CW-90B with 480 Plus Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LED, Numeric keypad, US Plug-Type B** | | | | |
| **201163** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201164** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201165** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201166** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201167** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201168** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **90-264 VAC, LED, Numeric keypad, Euro Plug-Type E** | | | | |
| **201175** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201176** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201177** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,290.00 |
| **201178** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201179** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |
| **201180** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,370.00 |

## CW-90B with 482 Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, US Plug-Type B** | | | | |
| **201463** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201464** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201465** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201466** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201467** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201468** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **90-264 VAC, LCD, Euro Plug-Type E** | | | | |
| **201480** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201485** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201486** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201487** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201488** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201489** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |



*† US plug (NA) - Type B*



*†† Euro Plug - Type E*





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# NEW
# CW-90B Ready-n-Weigh Bench Scale System
Bench Scale and Indicator Package

## CW-90B with 482 Plus Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, Numeric keypad, US Plug-Type B** | | | | |
| **201469** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201475** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201476** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201477** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201478** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201479** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **90-264 VAC, LCD, Numeric keypad, Euro Plug-Type E** | | | | |
| **201490** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201491** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201492** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,394.00 |
| **201493** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201494** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |
| **201495** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,474.00 |

## CW-90B with 482 Internal Battery Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, US Plug-Type B** | | | | |
| **201496** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201497** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201498** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201499** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201500** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201501** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **90-264 VAC, LCD, Euro Plug-type E** | | | | |
| **201508** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201509** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201510** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201511** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201512** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201513** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |

## CW-90B with 482 Plus Internal Battery Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, Numeric, US Plug-Type B** | | | | |
| **201502** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201503** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201504** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201505** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201506** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201507** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **90-264 VAC, LCD, Numeric, Euro Plug-type E** | | | | |
| **201514** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201515** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201516** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,602.00 |
| **201517** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201518** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |
| **201519** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,682.00 |



*† US plug (NA) - Type B*



*†† Euro Plug - Type E*



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## CW-90B with 680 Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115-230 VAC, LED, Numeric, US Plug-Type B** | | | | |
| **201308** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,435.00 |
| **201309** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,435.00 |
| **201310** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,435.00 |
| **201311** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,515.00 |
| **201312** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,515.00 |
| **201313** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,515.00 |
| **115-230 VAC, LED, Numeric, Euro Plug-Type E** | | | | |
| **201314** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,435.00 |
| **201315** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,435.00 |
| **201319** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,435.00 |
| **201320** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,515.00 |
| **201321** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,515.00 |
| **201322** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,515.00 |



*† US plug (NA) - Type B*



*†† Euro Plug - Type E*





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# NEW
# CW-90XB Ready-n-Weigh Bench Scale System

Bench Scale and Indicator Package




## Standard Features

- Package includes scale with IP69K stainless steel hermetically sealed load cell with an indicator and 12-inch column
- Factory calibrated, with indicator setup and configured for 5,000 divisions
- Scale includes rubber feet to provide exceptional traction and avoid scratching surfaces along with removable top cover for ease of cleaning.
- AC Power 100-240VAC (480/480 Plus, 482/482Plus, 680 Synergy Series)
- Battery Power (482/482 Plus internal battery) which is ideal for portable applications
- Indicator display type for a variety of environments. LED display (480/480 Plus, 680 Synergy Series); LCD backlit display (482/482 Plus)
- Battery backed time and date
- Standard RS-232 serial ports for connecting to a variety of peripherals
- Ethernet TCP/IP comes standard with the
- 680 Synergy Series but is sold as an option for the 480/480Plus and 482/482 Plus

## APPROVALS

## Specifications

**Load Cell, NTEP Certified:**
IP69K stainless steel and hermetically sealed

**Scale Construction:**
304 stainless steel

**Maximum Overload:**
180 to 200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
34 in

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**CW-90XB Approvals:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
Load cell is FM approved

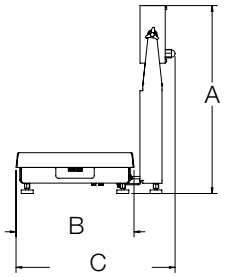
**480/480 Plus Legend Approvals:**
NTEP CC 12-123
Measurement Canada AM-5892
CE Marked
UL/cUL Listed

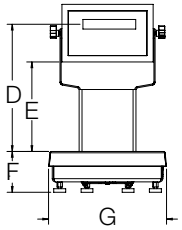
**482/482 Plus Legend Approvals:**
NTEP CC 12-123
Measurement Canada AM-5892
CE Marked
UL/cUL Listed

**680 Synergy Series Approvals:**
NTEP CC 12-123
Measurement Canada AM-5892
UL/cUL Listed
CE Marked

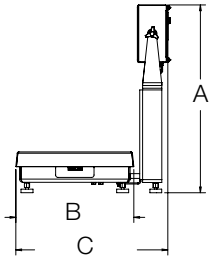
**Scale Warranty:**
Three-year limited warranty (includes water ingress)

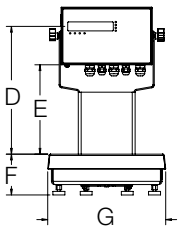
**Indicator Warranty:**
Two-year limited warranty




*CW-90XB with 480/482 indicator*




*CW-90XB with 680 indicator*

| Drawing Dimensions | | | |
|---|---|---|---|
| **480/480 Plus; 482/482 Plus** | | | |
| **10 in x 10 in** | | | |
| A | 19.50 in (495.3 mm) | E | 9.25 in (235 mm) |
| B | 10.25 in (260.4 mm) | F | 4.25 in (108 mm) |
| C | 14.53 in (369.1 mm) | G | 10.25 in (260.35 mm) |
| D | 13.25 in (336.6 mm) | | |
| **12 in x 12 in** | | | |
| A | 19.50 in (495.3 mm) | E | 9.25 in (235 mm) |
| B | 12.25 in (311.2 mm) | F | 4.25 in (108 mm) |
| C | 16.53 in (420 mm) | G | 12.25 in (311.2 mm) |
| D | 13.25 in (336.6 mm) | | |

| 680 | | | |
|---|---|---|---|
| **10 in x 10 in** | | | |
| A | 19.56 in (496.8 mm) | E | 9.31 in (236.5 mm) |
| B | 10.25 in (260.4 mm) | F | 4.25 in (108 mm) |
| C | 15.83 in (402.1 mm) | G | 10.25 in (260.35 mm) |
| D | 13.31 in (338.1 mm) | | |
| **12 in x 12 in** | | | |
| A | 19.56 in (496.8 mm) | E | 9.31 in (236.5 mm) |
| B | 12.25 in (311.2 mm) | F | 4.25 in (108 mm) |
| C | 16.83 in (427.5 mm) | G | 12.25 in (311.2 mm) |
| D | 13.31 in (338.1 mm) | | |



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# CW-90XB Ready-n-Weigh Bench Scale System

Bench Scale and Indicator Package

## CW-90XB with 480 Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LED, US Plug-Type B** | | | | |
| **201241** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201242** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201243** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201244** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201245** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201246** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **90-264 VAC, LED, Euro Plug-Type E** | | | | |
| **201254** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201255** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201257** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201258** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201259** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201260** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |

## CW-90XB with 480 Plus Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LED, Numeric, US Plug-Type B** | | | | |
| **201247** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201248** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201249** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201250** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201251** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201253** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **90-264 VAC, LED, Numeric, Euro Plug-Type E** | | | | |
| **201261** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201262** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201263** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,790.00 |
| **201264** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201265** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |
| **201266** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,870.00 |

## CW-90XB with 482 Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, US Plug-Type B** | | | | |
| **201533** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201534** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201535** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201536** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201537** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201538** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **90-264 VAC, LCD, Euro Plug-Type E** | | | | |
| **201546** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201547** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201548** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201549** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201550** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201551** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |



*† US plug (NA) - Type B*



*†† Euro Plug - Type E*





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# NEW
# CW-90XB Ready-n-Weigh Bench Scale System
Bench Scale and Indicator Package

## CW-90XB with 482 Plus Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, Numeric, US Plug-Type B** | | | | |
| **201539** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201541** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201542** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201543** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201544** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201545** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **90-264 VAC, LCD, Numeric, Euro Plug-Type E** | | | | |
| **201552** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201553** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201554** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,894.00 |
| **201555** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201556** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |
| **201557** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $1,974.00 |

## CW-90XB w/482 Internal Battery Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, US Plug-Type B** | | | | |
| **201559** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201560** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201561** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201562** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201563** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201564** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **90-264 VAC, LCD, Euro Plug-type E** | | | | |
| **201571** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201572** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201573** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201574** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201575** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201576** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |

## CW-90XB with 482 Plus Internal Battery Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115 VAC, LCD, Numeric, US Plug-Type B** | | | | |
| **201565** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201566** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201567** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201568** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201569** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201570** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **90-264 VAC, LCD, Numeric, Euro Plug-type E** | | | | |
| **201577** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201578** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201579** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $2,102.00 |
| **201580** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201581** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |
| **201582** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $2,182.00 |


*† US plug (NA) - Type B*


*†† Euro Plug - Type E*



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## CW-90XB with 680 Package

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **115-230 VAC, LED, Numeric, US Plug-Type B** | | | | |
| **201409** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,935.00 |
| **201410** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,935.00 |
| **201411** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,935.00 |
| **201412** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $2,015.00 |
| **201413** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $2,015.00 |
| **201414** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $2,015.00 |
| **115-230 VAC, LED, Numeric, Euro Plug-Type E** | | | | |
| **201415** | 5 lb (2.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,935.00 |
| **201416** | 10 lb (5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,935.00 |
| **201417** | 25 lb (12.5 kg) | 10 x 10 x 4.25 in | 24 lb | $1,935.00 |
| **201418** | 25 lb (12.5 kg) | 12 x 12 x 4.25 in | 27 lb | $2,015.00 |
| **201419** | 50 lb (25 kg) | 12 x 12 x 4.25 in | 27 lb | $2,015.00 |
| **201420** | 100 lb (50 kg) | 12 x 12 x 4.25 in | 27 lb | $2,015.00 |



*† US plug (NA) - Type B*



*†† Euro Plug - Type E*

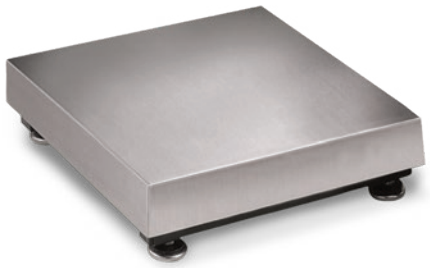




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# BenchMark®

Mild Steel







## APPROVALS

*† Load cell approval*

*†† Load cell approval*

## Specifications

**Load Cell, NTEP Certified:**
IP66 aluminum, environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
150-200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 95-072, Class III, 5,000 d
Measurement Canada AM-5082, Class III, 5,000 d

## Standard Features

- Painted mild steel frame with 304 stainless steel cover
- Base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **18580** † | 30 lb (15 kg) | 12 x 12 x 4.12 in | 20 lb | $765.00 |
| **18582** † | 50 lb (25 kg) | 12 x 12 x 4.12 in | 20 lb | $765.00 |
| **18584** † | 100 lb (50 kg) | 12 x 12 x 4.12 in | 20 lb | $765.00 |
| **18586** †† | 50 lb (25 kg) | 12 x 18 x 4.12 in | 37 lb | $850.00 |
| **18588** †† | 100 lb (50 kg) | 12 x 18 x 4.12 in | 37 lb | $850.00 |
| **18590** † | 50 lb (25 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18592** † | 100 lb (50 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18594** † | 150 lb (75 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18596** † | 200 lb (100 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18598** † | 250 lb (125 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18600** † | 300 lb (150 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18602** † | 500 lb (250 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18604** †† | 1,000 lb (500 kg) | 18 x 18 x 5.25 in | 68 lb | $1,045.00 |
| **18606** † | 50 lb (25 kg) | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18608** † | 100 lb (50 kg) | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18610** † | 150 lb (75 kg) | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18612** † | 200 lb (100 kg) | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18614** † | 250 lb (125 kg | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18616** † | 300 lb (150 kg) | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18618** † | 500 lb (250 kg) | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18620** †† | 1,000 lb (500 kg) | 18 x 24 x 5.25 in | 78 lb | $1,155.00 |
| **18622** † | 100 lb (50 kg) | 24 x 24 x 5.25 in | 78 lb | $1,275.00 |
| **18624** † | 150 lb (75 kg) | 24 x 24 x 5.25 in | 84 lb | $1,275.00 |
| **18626** † | 200 lb (100 kg) | 24 x 24 x 5.25 in | 84 lb | $1,275.00 |
| **18628** † | 250 lb (125 kg) | 24 x 24 x 5.25 in | 84 lb | $1,275.00 |
| **18630** † | 300 lb (150 kg) | 24 x 24 x 5.25 in | 84 lb | $1,275.00 |
| **18632** † | 500 lb (250 kg) | 24 x 24 x 5.25 in | 84 lb | $1,275.00 |
| **18634** †† | 1,000 lb (500 kg) | 24 x 24 x 5.25 in | 84 lb | $1,275.00 |



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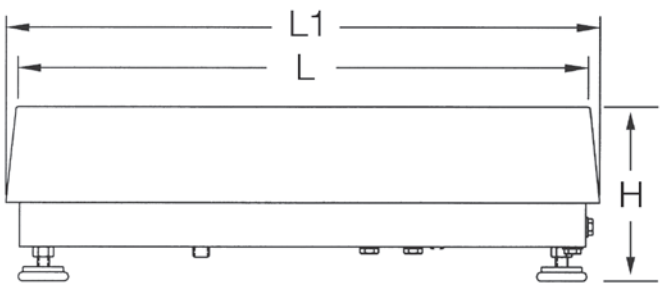
## Options/Accessories

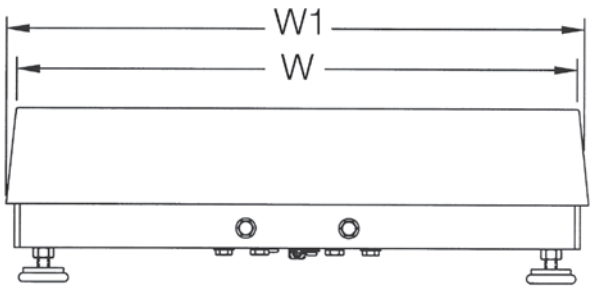
| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

## Dimensions

| Part # | Capacity | Platform Size (L x W) | L1 | W1 | H |
|---|---|---|---|---|---|
| **18580** | 30 lb (15 kg) | 12 x 12 in | 12.50 in | 12.50 in | 4.12 in |
| **18582** | 50 lb (25 kg) | 12 x 12 in | 12.50 in | 12.50 in | 4.12 in |
| **18584** | 100 lb (50 kg) | 12 x 12 in | 12.50 in | 12.50 in | 4.12 in |
| **18586** | 50 lb (25 kg) | 12 x 18 in | 12.50 in | 18.50 in | 4.12 in |
| **18588** | 100 lb (50 kg) | 12 x 18 in | 12.50 in | 18.50 in | 4.12 in |
| **18590** | 50 lb (25 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18592** | 100 lb (50 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18594** | 150 lb (75 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18596** | 200 lb (100 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18598** | 250 lb (125 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18600** | 300 lb (150 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18602** | 500 lb (250 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18604** | 1,000 lb (500 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18606** | 50 lb (25 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18608** | 100 lb (50 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18610** | 150 lb (75 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18612** | 200 lb (100 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18614** | 250 lb (125 kg | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18616** | 300 lb (150 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18618** | 500 lb (250 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18620** | 1,000 lb (500 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18622** | 100 lb (50 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18624** | 150 lb (75 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18626** | 200 lb (100 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18628** | 250 lb (125 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18630** | 300 lb (150 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18632** | 500 lb (250 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18634** | 1,000 lb (500 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |

*Note: 1 in=25.4 mm*



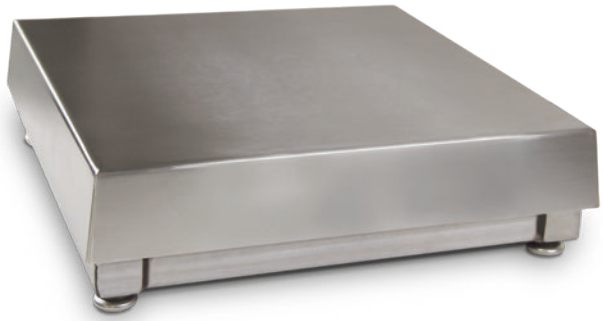





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# BenchMark®

Stainless Steel







## APPROVALS

*† Load cell approval*

*†† Load cell approval*

## Specifications

**Load Cell, NTEP Certified:**
IP66 aluminum, environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
150-200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 95-072, Class III, 5,000 d
Measurement Canada AM-5082, Class III, 5,000 d

## Standard Features

- 304 stainless steel frame and cover
- Base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **186222** † | 50 lb (25 kg) | 12 x 18 x 4.00 in | 37 lb | $900.00 |
| **186223** † | 100 lb (50 kg) | 12 x 18 x 4.00 in | 37 lb | $900.00 |
| **18591** † | 50 lb (25 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18593** † | 100 lb (50 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18595** † | 150 lb (75 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18597** † | 200 lb (100 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18599** † | 250 lb (125 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18601** † | 300 lb (150 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18603** † | 500 lb (250 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18605** †† | 1,000 lb (500 kg) | 18 x 18 x 5.25 in | 68 lb | $1,245.00 |
| **18607** † | 50 lb (25 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18609** † | 100 lb (50 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18611** † | 150 lb (75 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18613** † | 200 lb (100 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18615** † | 250 lb (125 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18617** † | 300 lb (150 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18619** † | 500 lb (250 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18621** †† | 1,000 lb (500 kg) | 18 x 24 x 5.25 in | 78 lb | $1,480.00 |
| **18623** † | 100 lb (50 kg) | 24 x 24 x 5.25 in | 84 lb | $1,825.00 |
| **18625** † | 150 lb (75 kg) | 24 x 24 x 5.25 in | 84 lb | $1,825.00 |
| **18627** † | 200 lb (100 kg) | 24 x 24 x 5.25 in | 84 lb | $1,825.00 |
| **18629** † | 250 lb (125 kg) | 24 x 24 x 5.25 in | 84 lb | $1,825.00 |
| **18631** † | 300 lb (150 kg) | 24 x 24 x 5.25 in | 84 lb | $1,825.00 |
| **18633** † | 500 lb (250 kg) | 24 x 24 x 5.25 in | 84 lb | $1,825.00 |
| **18635** †† | 1,000 lb (500 kg) | 24 x 24 x 5.25 in | 84 lb | $1,825.00 |



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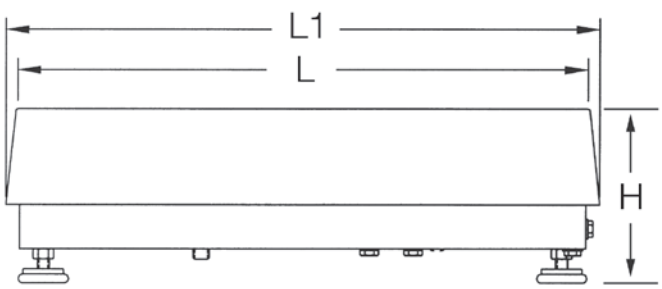
## Options/Accessories

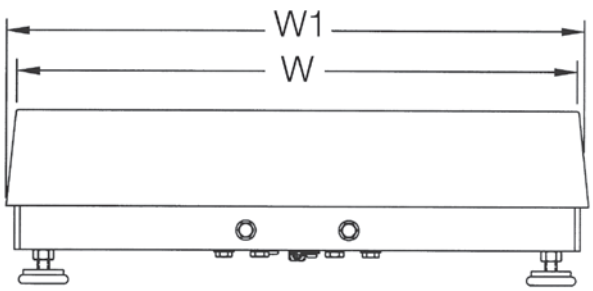
| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

## Dimensions

| Part # | Capacity | Platform Size (L x W) | L1 | W1 | H |
|---|---|---|---|---|---|
| **186222** | 50 lb (25 kg) | 12 x 18 in | 12.50 in | 18.50 in | 4.00 in |
| **186223** | 100 lb (50 kg) | 12 x 18 in | 12.50 in | 18.50 in | 4.00 in |
| **18591** | 50 lb (25 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18593** | 100 lb (50 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18595** | 150 lb (75 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18597** | 200 lb (100 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18599** | 250 lb (125 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18601** | 300 lb (150 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18603** | 500 lb (250 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18605** | 1,000 lb (500 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **18607** | 50 lb (25 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18609** | 100 lb (50 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18611** | 150 lb (75 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18613** | 200 lb (100 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18615** | 250 lb (125 kg | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18617** | 300 lb (150 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18619** | 500 lb (250 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18621** | 1,000 lb (500 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.25 in |
| **18623** | 100 lb (50 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18625** | 150 lb (75 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18627** | 200 lb (100 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18629** | 250 lb (125 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18631** | 300 lb (150 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18633** | 500 lb (250 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **18635** | 1,000 lb (500 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |

*Note: 1 in=25.4 mm*








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# BenchMark® HE

Hostile Environment Series







## APPROVALS

## Specifications

**Load Cell, NTEP Certified:**
IP69K stainless steel, hermetically sealed

**Output Impedance:**
1,000 Ω

**Maximum Overload:**
150-200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Three-year limited warranty
(includes water ingress)

**Approvals:**
NTEP CC 95-072, Class III, 5,000 d
Measurement Canada AM-5082, Class III, 5,000 d
Load cell is FM approved

## Standard Features

- 304 stainless steel frame and cover
- Base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **186897** | 50 lb (25 kg) | 12 x 18 x 4.00 in | 37 lb | $1,270.00 |
| **186898** | 100 lb (50 kg) | 12 x 18 x 4.00 in | 37 lb | $1,270.00 |
| **86952** | 50 lb (25 kg) | 18 x 18 x 5.25 in | 68 lb | $1,615.00 |
| **86953** | 100 lb (50 kg) | 18 x 18 x 5.25 in | 68 lb | $1,615.00 |
| **86954** | 150 lb (75 kg) | 18 x 18 x 5.25 in | 68 lb | $1,615.00 |
| **86955** | 200 lb (100 kg) | 18 x 18 x 5.25 in | 68 lb | $1,615.00 |
| **86956** | 250 lb (125 kg) | 18 x 18 x 5.5 in | 68 lb | $1,770.00 |
| **86957** | 300 lb (150 kg) | 18 x 18 x 5.5 in | 68 lb | $1,770.00 |
| **86958** | 500 lb (250 kg) | 18 x 18 x 5.5 in | 68 lb | $1,920.00 |
| **86959** | 1,000 lb (500 kg) | 18 x 18 x 5.5 in | 68 lb | $1,920.00 |
| **86960** | 50 lb (25 kg) | 18 x 24 x 5.5 in | 78 lb | $1,850.00 |
| **86961** | 100 lb (50 kg) | 18 x 24 x 5.5 in | 78 lb | $1,850.00 |
| **86962** | 150 lb (75 kg) | 18 x 24 x 5.5 in | 78 lb | $1,850.00 |
| **86963** | 200 lb (100 kg) | 18 x 24 x 5.5 in | 78 lb | $1,850.00 |
| **86964** | 250 lb (125 kg | 18 x 24 x 5.5 in | 78 lb | $2,010.00 |
| **86965** | 300 lb (150 kg) | 18 x 24 x 5.5 in | 78 lb | $2,010.00 |
| **86966** | 500 lb (250 kg) | 18 x 24 x 5.5 in | 78 lb | $2,290.00 |
| **86967** | 1,000 lb (500 kg) | 18 x 24 x 5.5 in | 78 lb | $2,290.00 |
| **86968** | 100 lb (50 kg) | 24 x 24 x 5.5 in | 84 lb | $2,190.00 |
| **86969** | 150 lb (75 kg) | 24 x 24 x 5.5 in | 84 lb | $2,190.00 |
| **86970** | 200 lb (100 kg) | 24 x 24 x 5.5 in | 84 lb | $2,190.00 |
| **86971** | 250 lb (125 kg) | 24 x 24 x 5.5 in | 84 lb | $2,350.00 |
| **86972** | 300 lb (150 kg) | 24 x 24 x 5.5 in | 84 lb | $2,350.00 |
| **86973** | 500 lb (250 kg) | 24 x 24 x 5.5 in | 84 lb | $2,430.00 |
| **86974** | 1,000 lb (500 kg) | 24 x 24 x 5.5 in | 84 lb | $2,430.00 |



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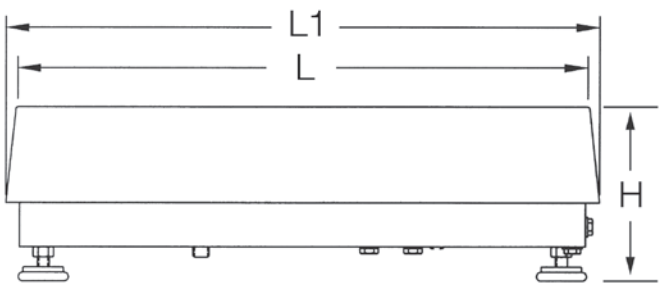
## Options/Accessories

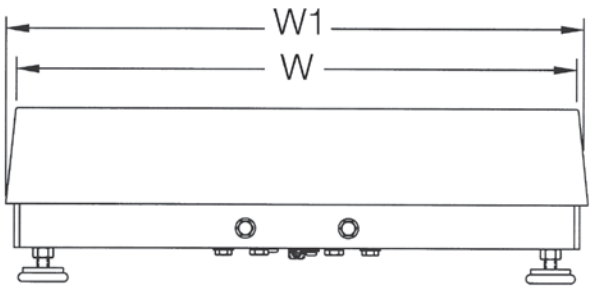
| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

## Dimensions

| Part # | Capacity | Platform Size (L x W) | L1 | W1 | H |
|---|---|---|---|---|---|
| **186897** | 50 lb (25 kg) | 12 x 18 in | 12.50 in | 18.50 in | 4.00 in |
| **186898** | 100 lb (50 kg) | 12 x 18 in | 12.50 in | 18.50 in | 4.00 in |
| **86952** | 50 lb (25 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **86953** | 100 lb (50 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **86954** | 150 lb (75 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **86955** | 200 lb (100 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **86956** | 250 lb (125 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.5 in |
| **86957** | 300 lb (150 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.5 in |
| **86958** | 500 lb (250 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.5 in |
| **86959** | 1,000 lb (500 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.5 in |
| **86960** | 50 lb (25 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86961** | 100 lb (50 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86962** | 150 lb (75 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86963** | 200 lb (100 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86964** | 250 lb (125 kg | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86965** | 300 lb (150 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86966** | 500 lb (250 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86967** | 1,000 lb (500 kg) | 18 x 24 in | 24.75 in | 18.75 in | 5.5 in |
| **86968** | 100 lb (50 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.5 in |
| **86969** | 150 lb (75 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.5 in |
| **86970** | 200 lb (100 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.5 in |
| **86971** | 250 lb (125 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.5 in |
| **86972** | 300 lb (150 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.5 in |
| **86973** | 500 lb (250 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.5 in |
| **86974** | 1,000 lb (500 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.5 in |

*Note: 1 in=25.4 mm*








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# BenchMark® HE-X

Hostile Environment Extreme Bench Scale



## Specifications

**Load Cell, NTEP Certified:**
IP69K Stainless steel, hermetically sealed

**Output Impedance:**
1,000 Ω

**Maximum Overload:**
150-200% depending on capacity

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10ft (3m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Three-year limited warranty (includes water ingress)

**Approvals:**
Load cell is FM approved

## Standard Features

- Rugged washdown design, rigid 304 stainless steel frame and cover constructed with continuous welds
- Four adjustable stainless steel support feet
- IP69K stainless steel load cell
- Meets Sanitary Design Principles
- Meets HACCP requirements

## APPROVALS

FM APPROVED

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **192346** | 50 lb (25 kg) | 12 x 18 x 5.25 in | 59 lb | $2,300.00 |
| **192347** | 100 lb (50 kg) | 12 x 18 x 5.25 in | 59 lb | $2,300.00 |
| **191455** | 50 lb (25 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191456** | 100 lb (50 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191457** | 150 lb (75 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191458** | 200 lb (100 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191459** | 250 lb (125 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191460** | 300 lb (150 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191461** | 500 lb (250 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191462** | 1,000 lb (500 kg) | 18 x 18 x 5.25 in | 73 lb | $2,450.00 |
| **191467** | 50 lb (25 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191469** | 100 lb (50 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191470** | 150 lb (75 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191472** | 200 lb (100 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191473** | 250 lb (125 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191474** | 300 lb (150 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191475** | 500 lb (250 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191476** | 1,000 lb (500 kg) | 18 x 24 x 5.25 in | 90 lb | $2,650.00 |
| **191479** | 100 lb (50 kg) | 24 x 24 x 5.25 in | 122 lb | $2,850.00 |
| **191480** | 150 lb (75 kg) | 24 x 24 x 5.25 in | 122 lb | $2,850.00 |
| **191481** | 200 lb (100 kg) | 24 x 24 x 5.25 in | 122 lb | $2,850.00 |
| **191482** | 250 lb (125 kg) | 24 x 24 x 5.25 in | 122 lb | $2,850.00 |
| **191483** | 300 lb (150 kg) | 24 x 24 x 5.25 in | 122 lb | $2,850.00 |
| **191485** | 500 lb (250 kg) | 24 x 24 x 5.25 in | 122 lb | $2,850.00 |
| **191486** | 1,000 lb (500 kg) | 24 x 24 x 5.25 in | 122 lb | $2,850.00 |



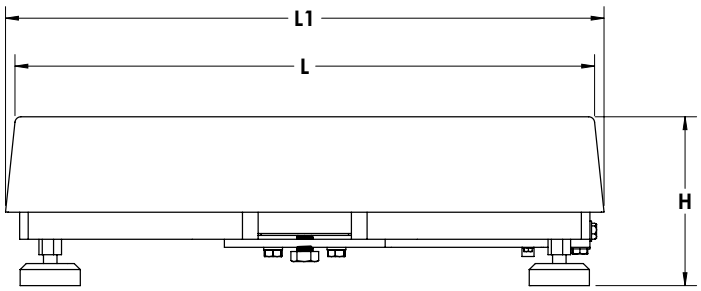
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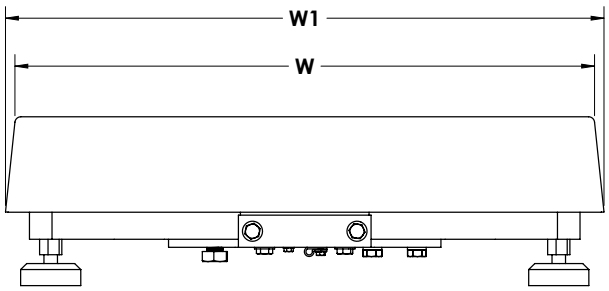
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Columns, Ball Transfer Tops, Roller Conveyor Tops, Carts available | See end of section for details |

## Dimensions

| Part # | Capacity | Platform Size (L x W) | L1 | W1 | H |
|---|---|---|---|---|---|
| **192346** | 50 lb (25 kg) | 12 x 18 in | 12.50 in | 18.50 in | 5.25 in |
| **192347** | 100 lb (50 kg) | 12 x 18 in | 12.50 in | 18.50 in | 5.25 in |
| **191455** | 50 lb (25 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191456** | 100 lb (50 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191457** | 150 lb (75 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191458** | 200 lb (100 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191459** | 250 lb (125 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191460** | 300 lb (150 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191461** | 500 lb (250 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191462** | 1,000 lb (500 kg) | 18 x 18 in | 18.75 in | 18.75 in | 5.25 in |
| **191467** | 50 lb (25 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191469** | 100 lb (50 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191470** | 150 lb (75 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191472** | 200 lb (100 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191473** | 250 lb (125 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191474** | 300 lb (150 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191475** | 500 lb (250 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191476** | 1,000 lb (500 kg) | 18 x 24 in | 18.75 in | 24.75 in | 5.25 in |
| **191479** | 100 lb (50 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **191480** | 150 lb (75 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **191481** | 200 lb (100 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **191482** | 250 lb (125 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **191483** | 300 lb (150 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **191485** | 500 lb (250 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |
| **191486** | 1,000 lb (500 kg) | 24 x 24 in | 24.75 in | 24.75 in | 5.25 in |





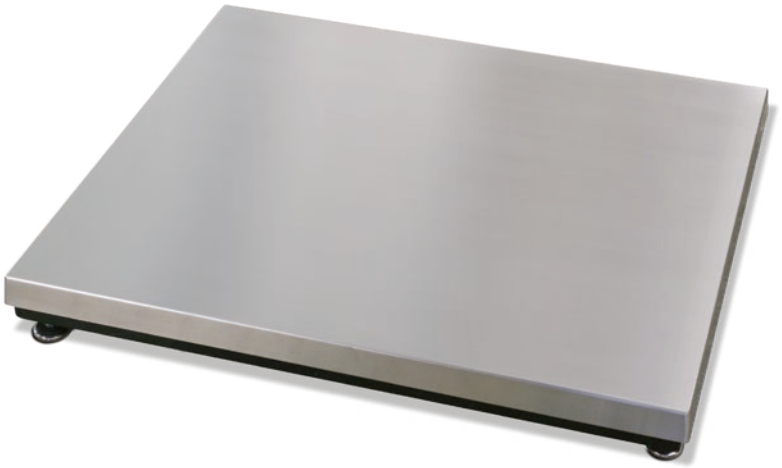

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RICE LAKE



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# BenchMark® LP

Low Profile Bench Scales



*Ideal for Aviation Weighing. A complete system can be sold with the Tracer® AV. Reference Aviation section for specifications.*

## Specifications

**Load Cell, Rated Output:**
IP65 aluminum, 1.0 mV/V ±10%

**End Load Capacity:**
60% of full scale capacity

**Cable Length:**
20 ft (6.1 m) for connecting junction box to indicator

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 08-017, Class III 5,000 d (except 1000 lb capacity)
Measurement Canada AM 5660, Class III 5,000 d (except 500 kg capacity)

## Standard Features

- Mild steel base construction
- 304 stainless steel cover
- ABS junction box
- Four planar beam load cells
- Adjustable leveling feet
- 20 ft of EL147 load cell cable
- Holes in lower frame for mounting scale without adjustable leveling feet

## APPROVALS

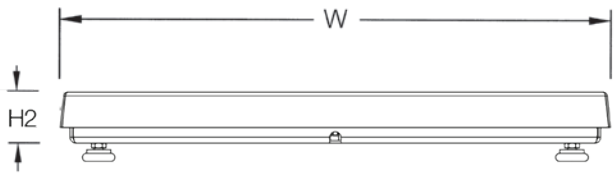
## Part Number/Price

| Part # | Capacity | Platform Dimensions L x W x H1 (H2) | Est. Weight | Price |
|---|---|---|---|---|
| **97662** | 100 lb (50 kg) | 18 x 18 x 2.63 in (1.67 in*) | 75 lb | $1,120.00 |
| **97663** | 250 lb (125 kg) | 18 x 18 x 2.50 in (1.74 in*) | 85 lb | $1,145.00 |
| **97664** | 500 lb (250 kg) | 18 x 18 x 2.69 in (1.93 in*) | 85 lb | $1,170.00 |
| **97665** | 100 lb (50 kg) | 24 x 24 x 2.66 in (1.69 in*) | 85 lb | $1,340.00 |
| **97666** | 250 lb (125 kg) | 24 x 24 x 2.83 in (2.07 in*) | 100 lb | $1,365.00 |
| **97667** | 500 lb (250 kg) | 24 x 24 x 3.02 in (2.26 in*) | 100 lb | $1,390.00 |
| **97668** | 500 lb (250 kg) | 30 x 30 x 3.02 in (2.26 in*) | 150 lb | $1,600.00 |
| **97669**** | 1,000 lb (500 kg) | 30 x 30 x 3.47 in (2.70 in*) | 190 lb | $1,655.00 |
| **97670** | 500 lb (250 kg) | 36 x 36 x 3.02 in (2.26 in*) | 175 lb | $2,100.00 |
| **97671**** | 1,000 lb (500 kg) | 36 x 36 x 3.47 in (2.70 in*) | 175 lb | $2,150.00 |

**Height without adjustable leveling feet*

*** Non-NTEP or Measurement Canada Approved*






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## Specifications

**Load Cell, NTEP Certified:**
IP67 aluminum, environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%

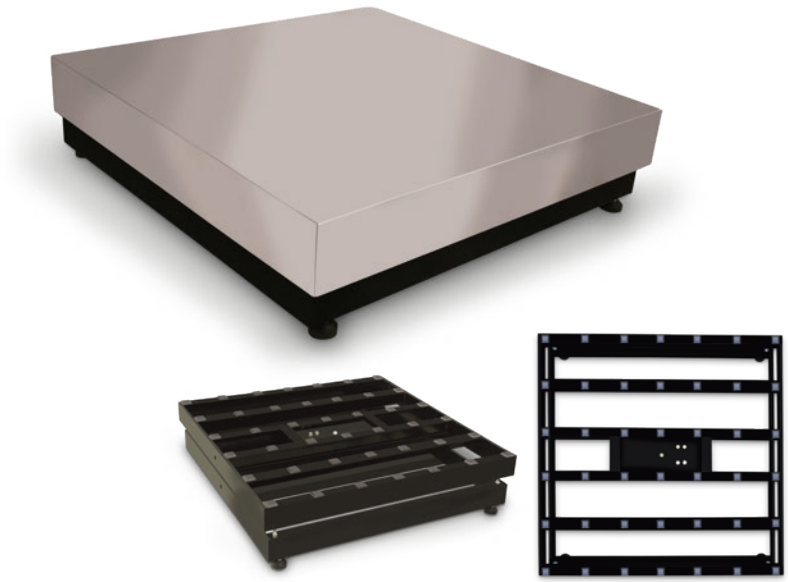
**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14˚ F to 104˚ F (-10˚ C to 40˚ C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 06-010, Class III 5,000 d
Measurement Canada AM-5625, Class III 5,000 d
Load cell is cFMus



## Standard Features

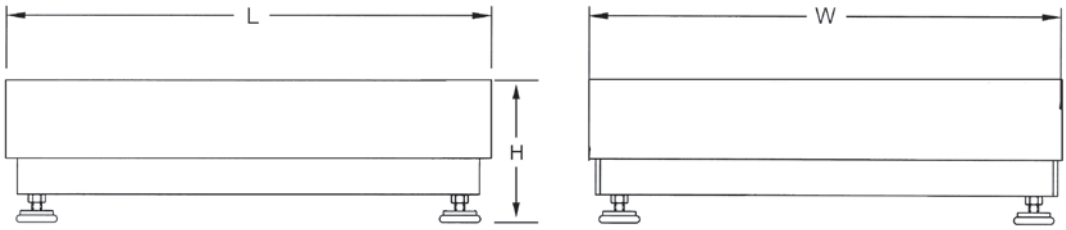
- Heavy-duty designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems

APPROVALS

## Part Number/Price

| Part # | Capacity | Platform Dimensions (L x W x H) | Est. Weight | Price |
|---|---|---|---|---|
| **93414** | 250 lb (125 kg) | 30 x 30 x 8.75 in | 300 lb | $1,760.00 |
| **93415** | 500 lb (225 kg) | 30 x 30 x 8.75 in | 300 lb | $1,760.00 |
| **93416** | 250 lb (125 kg) | 36 x 36 x 8.75 in | 330 lb | $2,135.00 |
| **93417** | 500 lb (225 kg) | 36 x 36 x 8.75 in | 330 lb | $2,135.00 |

*Consult factory for modifications for airport baggage scales.*



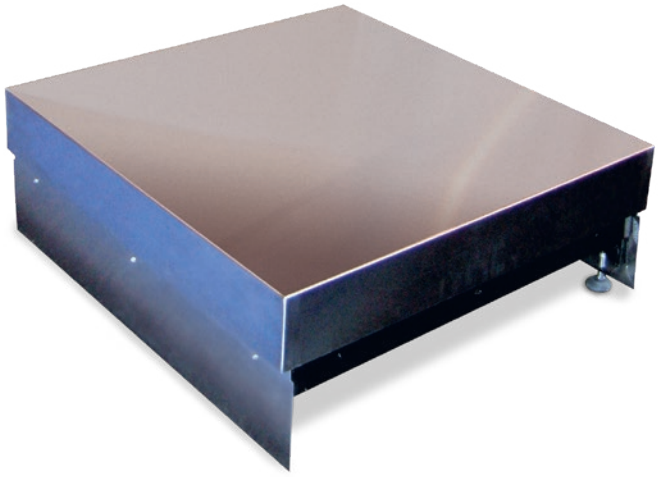





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# BenchMark® HD-1 Aviation

Heavy Duty Bench Scales



## APPROVALS

*Ideal for Aviation Weighing. A complete system can be sold with the Tracer® AV. Reference Aviation section for specifications.*

## Specifications

**Load Cell, NTEP Certified:**
IP67 aluminum, environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 06-010, Class III 5,000 d
Measurement Canada AM-5625, Class III 5,000 d
Load cell is cFMus

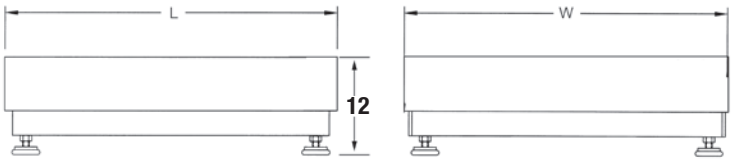
## Standard Features

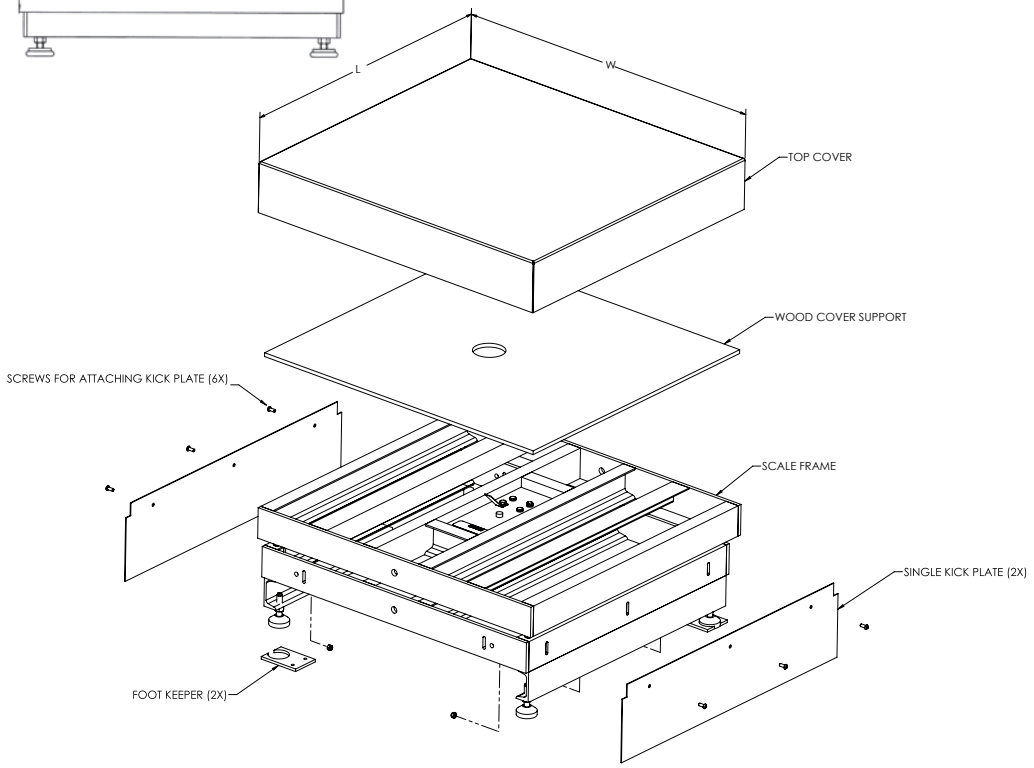
- Heavy-duty designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **Consult** | 500 lb (225 kg) | L x W x 12 in | 330 lb | Consult |

*Note: Maximum size is up to 36 in x 36 in, height is always 12 in*
*L x W supplied by customer.*






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## Specifications

**Load Cell, NTEP Certified:**
IP67 aluminum, environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%

**Overload Protection:**
Five-point, independently adjusted

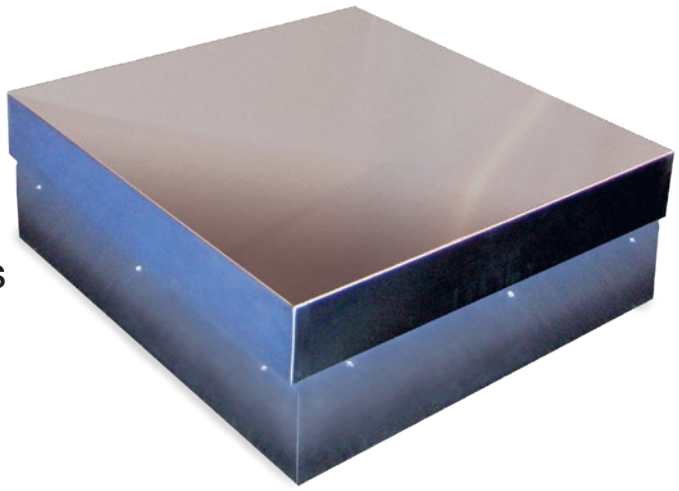
**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14˚ F to 104˚ F (-10˚ C to 40˚ C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 06-010, Class III 5,000 d
Measurement Canada AM-5625, Class III 5,000 d
Load cell is cFMus

## APPROVALS



*Ideal for Aviation Weighing*

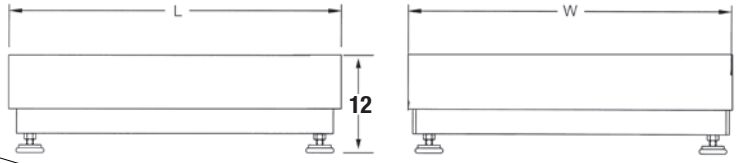
## Standard Features

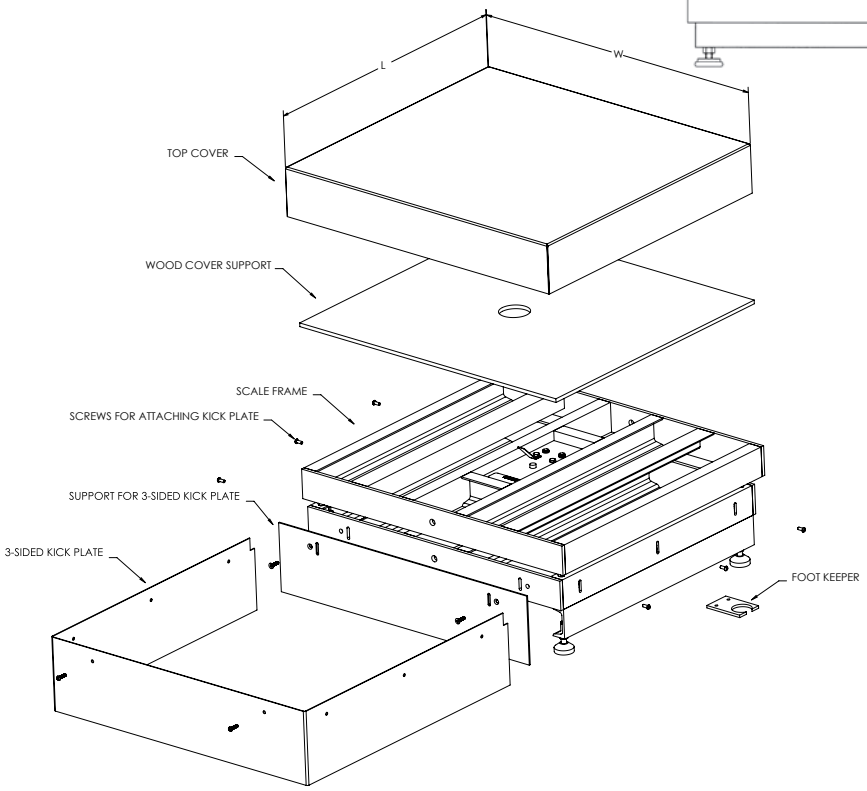
- Heavy-duty designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **Consult** | 500 lb (225 kg) | L x W x 12 in | 330 lb | Consult |

*Note: Maximum size is up to 36 in x 36 in, height is always 12 in*
*L x W supplied by customer.*

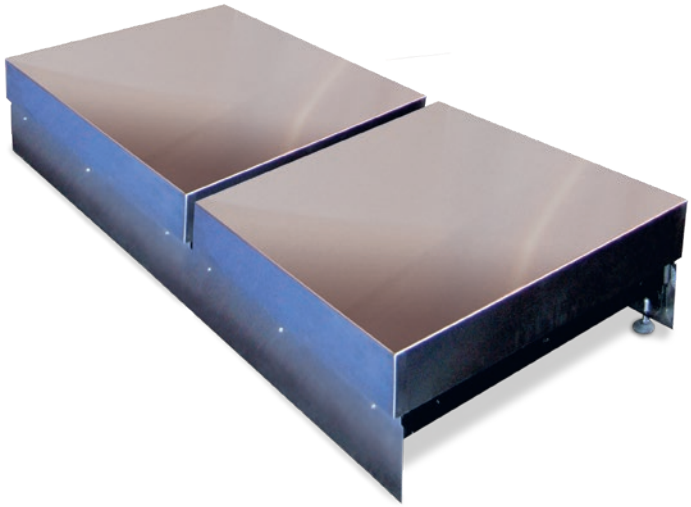



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# BenchMark® HD-3 Aviation

Heavy Duty Bench Scales



APPROVALS

*Ideal for Aviation Weighing. A complete system can be sold with the Tracer® AV. Reference Aviation section for specifications.*

## Specifications

**Load Cell, NTEP Certified:**
IP67 aluminum, environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 06-010, Class III 5,000 d
Measurement Canada AM-5625, Class III 5,000 d
Load cell is cFMus

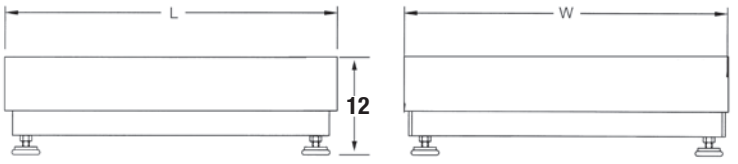
## Standard Features

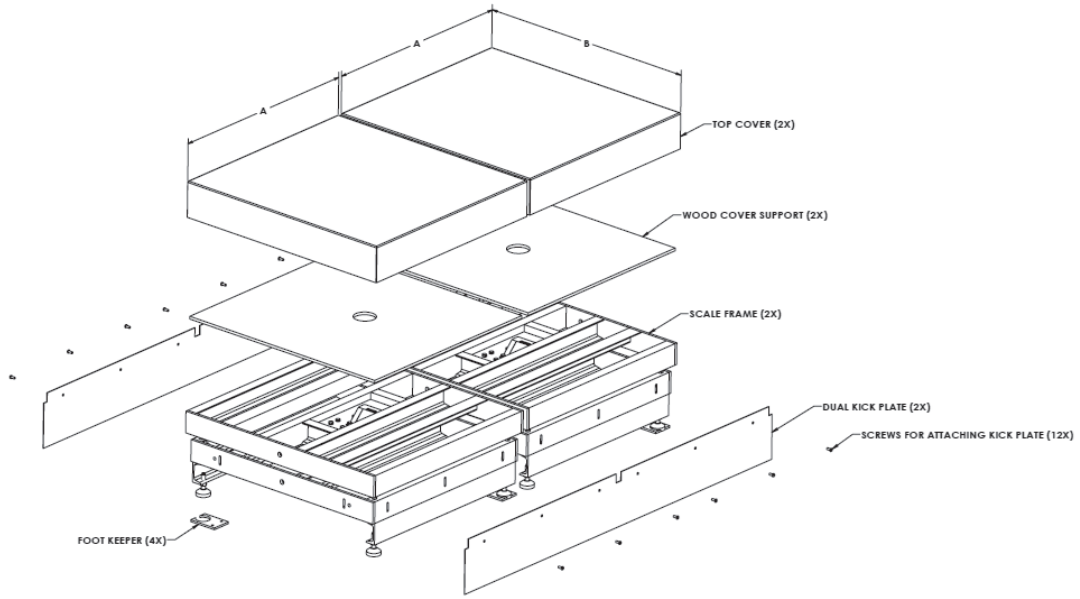
- Heavy-duty designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **Consult** | 500 lb (225 kg) | L x W x 12 in | 330 lb | Consult |

*Note: Maximum size is up to 36 in x 36 in, height is always 12 in L x W supplied by customer.*






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# BenchMark® HDP

Portable Heavy Duty Bench Scales




*Ideal for Aviation Weighing. A complete system can be sold with the Tracer® AV. Reference Aviation section for specifications.*

## Specifications

**Load Cell, NTEP Certified:**
IP67 aluminum, environmentally sealed

**Output Impedance:**
350 Ω

**Maximum Overload:**
200%

**Overload Protection:**
Five-point, independently adjusted

**Cable Length:**
10 ft (3 m)

**Compensated Temperature Range:**
14˚ F to 104˚ F (-10˚ C to 40˚ C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 06-010, Class III 5,000 d
Measurement Canada AM-5625, Class III 5,000 d

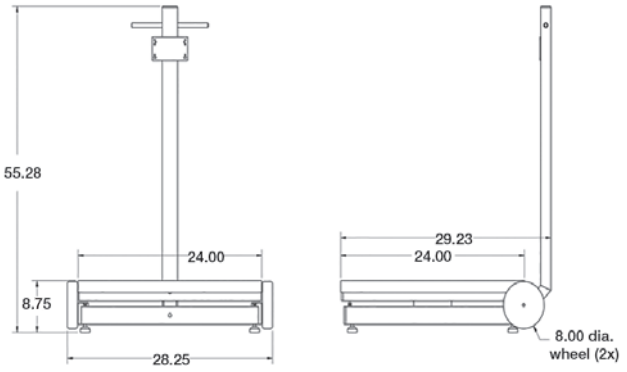
## Standard Features

- Mild steel base construction
- 304 stainless steel cover
- Indicator stand for mounting 480/482 Legend™ Series
- Wheel model
- Polyurethane rubber leveling feet with stainless steel stems
- 8 in diameter preformed rubber wheels with ball bearings
- Caster model
- 3 1/2 in diameter preformed rubber casters, two fixed, two swivel with lock

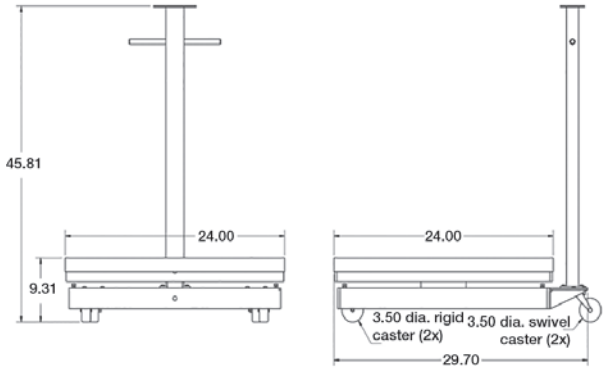
## APPROVALS

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **Wheel Model** | | | | |
| **97072** | 250 lb (125 kg) | 24 x 24 x 8.75 in | 275 lb | $1,760.00 |
| **97073** | 500 lb (225 kg) | 24 x 24 x 8.75 in | 275 lb | $1,760.00 |
| **Caster Model** | | | | |
| **97074** | 250 lb (125 kg) | 24 x 24 x 9.31 in | 290 lb | $1,760.00 |
| **97075** | 500 lb (225 kg) | 24 x 24 x 9.31 in | 290 lb | $1,760.00 |




*Wheel Model*




*Caster Model*



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## Specifications

**Display:**
Six-digit (seven-segment), LCD
Character height: 1 in (25.4 mm)

**Keyboard:**
Zero, tare, on/off, unit (lb/kg)
NOTE: oz version only displays weight in oz

**Power:**
Two dry cell D type batteries* (up to 500 hours) or AC adapter
Auto power-off function (can be set to 60 min., 20 min., or off)

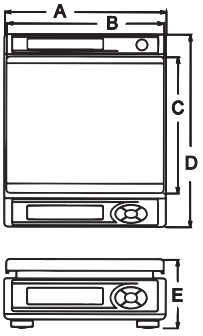
**Divisions (Auto Ranging):**
100 oz: 0.05 oz from 0–50 oz, 0.1 oz from 50–100 oz
6 lb (3 kg): 0.002 lb (0.001 kg) from 0–3 lb (0–1.5 kg), 0.005 lb (0.002 kg) from 3–6 lb (1.5–3 kg)
15 lb (6 kg): 0.005 lb (0.002 kg) from 0–6 lb (0–3 kg), 0.01 lb (0.005 kg) from 6–15 lb (3–6 kg)
30 lb (15 kg): 0.01 lb (0.005 kg) from 0–15 lb (0–7.5 kg), 0.02 lb (0.01 kg) from 15–30 lb (7.5–15 kg)
60 lb (30 kg): 0.02 lb (0.01 kg) from 0–30 lb (0–15 kg), 0.05 lb (0.02 kg) from 30–60 lb (15–30 kg)

**Operational Temperature:**
23° F to 104° F (-5° C to 40° C)

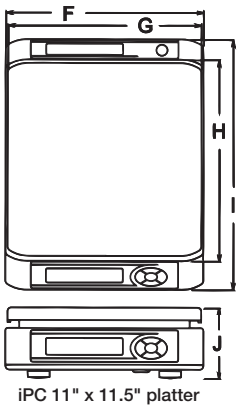
**Platter Size:**
100 oz (3 kg): 9.1 x 7.8 in (231 x 198.1 mm)
6 lb (3 kg): 9.1 x 7.8 in (231 x 198.1 mm)
15 lb (6 kg): 9.1 x 7.8 in (231 x 198.1 mm)
30 lb (15 kg): 11 x 11.5 in (279.4 x 292.1 mm)
60 lb (30 kg): 11 x 11.5 in (279.4 x 292.1 mm)

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP Certified CC 02-139, Class III
0-30 lb 1,500 d; 60 lb 1,200 d; 0-100 oz 1000 d
UL listed



iPC 9.1" x 7.8" platter



iPC 11" x 11.5" platter




## Standard Features

- Six-digit liquid crystal display (LCD)
- Powered by two D cell batteries (up to 500 hours operation)
- Auto power-off function
- Low battery indicator
- Overload stops
- Batteries and AC adapter not included

**APPROVALS**

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **Single Display** | | | | |
| **75466** | 100 oz | 9.1 x 7.8 in | 6 lb | $295.00 |
| **Single Display, Multi-ranging** | | | | |
| **75454** | 6 lb (3 kg) | 9.1 x 7.8 in | 6 lb | $295.00 |
| **75455** | 15 lb (6 kg) | 9.1 x 7.8 in | 6 lb | $295.00 |
| **75457** | 30 lb (15 kg) | 11 x 11.5 in | 8 lb | $295.00 |
| **75458** | 60 lb (30 kg) | 11 x 11.5 in | 8 lb | $295.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **75470** | Stainless steel platter cover (100 oz, 6 lb, and 15 lb capacity) | $25.00 |
| **75739** | Stainless steel platter cover (30 lb and 60 lb capacity) | $25.00 |
| **75473** | AC adapter | $25.00 |

| Dimensions | | | |
|---|---|---|---|
| A | 9.3 in (236.2 mm | F | 11.3 in (287 mm |
| B | 9.1 in (231.1 mm | G | 11 in (279.4 mm |
| C | 7.8 in (198.1 mm | H | 11.5 in (292.1 mm |
| D | 11.1 in (281.9 mm | I | 14.3 in (363.2 mm |
| E | 3.9 in (99.1 mm | J | 4 in (101.6 mm |



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# Versa-portion®

Compact Scale




## Standard Features

- Compact and easy to use
- IP68 water and dust resistant
- Stainless steel finish
- Removable weigh pan for quick and easy cleaning
- LED display
- AC adapter included
- Legal for Trade
- HACCP compliant

## APPROVALS

## Optional Features:

- Rechargeable battery

## Part Number/Price

| Part # | Description | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **115125** | RLP-6S | 6.00 x 0.002 lb | 15 lb (6.3 kg) | $400.00 |
| **115128** | RLP-15S | 15.00 x 0.005 lb | 15 lb (6.3 kg) | $400.00 |
| **115129** | RLP-30S | 30.00 x 0.01 lb | 15 lb (6.3 kg) | $400.00 |
| **115130** | RLP-60S | 60.00 x 0.02 lb | 15 lb (6.3 kg) | $400.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **108516** | Rechargeable battery | $45.00 |
| **108518** | AC adapter 110-230 VAC, U.S. plug | $45.00 |
| **129953** | AC adapter, 110-230 VAC, Euro plug | $48.00 |
| **115519** | Additional operator guide | $10.00 |

## Specifications

**Display:**
LED, six-digit

**Capacity:**

| Pound | Gram | Ounce |
|---|---|---|
| 6.0 lb x 0.002 lb | 3,000 g x 1 g | 60.0 oz x 0.02 oz |
| 15.0 lb x 0.005 lb | 6,000 x 2 g | 150.0 oz x 0.05 oz |
| 30.0 lb x 0.01 lb | 15,000 g x 5 g | 300.0 oz x 0.1 oz |
| 60.0 lb x 0.02 lb | 30,000 g x 10 g | 600.0 oz x 0.2 oz |

**Display Indicators:**
Ounces, grams, pounds, net, center of zero, battery usage

**Keyboard:**
Rezero, Tare, On/Off, Unit

**Resolution:**
Display resolution 1/3,000
Internal resolution 1/90,000

**Operating Humidity:**
15 ~ 85% RH

**Operating Temperature:**
14° F to 104° F (-10°C to +40°C)

**Power Consumption:**
18 W when using DC power, 3 W when using rechargeable battery
(battery life: 60 hours of continuous usage)

**Power Source:**
AC 117/100 V, 240/230/220 V
DC 12 V/1.5A, DC 6 V 5Ah optional rechargeable battery

**Calibration:**
RLP-S: Grams

**Dimensions: Overall:**
(W x D x H): 9.9 x 11.4 x 5.3 in
(251.6 x 289.7 x 134.6 mm)

**Package Size:**
(W x D x H): 14.8 x 13.3 x 9.6 in
(377 x 337 x 245 mm)

**Platter Size:**
9.3 x 7.8 in (237.2 x 198.0 mm)

**Approximate Weight:**
15 lb (6.3 kg)

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP CC 10-068, Class III 3,000 d
Measurement Canada AM-5794, Class III 3,000d



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## Specifications

**Capacity:**
IGX 150 lb/60 kg x .05 lb/0.02 kg
IGX 300 lb/150 kg x .1 lb/0.05 kg
IGB 150 lb/60 kg x 0.05 lb/0.02 kg
IGB 300 lb/150 kg x 0.1 lb/0.05 kg

**Accuracy:**
Configurable 1/3,000**, 1/6,000, 1/7,500
**Legal for Trade setting

**Display:**
IGX: vacuum fluorescent display (VFD), 25 mm
IGB: liquid crystal display (LCD), 29 mm

**Display Items:**
Weight: five-digits, center of zero, tare, checkweighing: over "H," under "L"

**Electrical Power:**
IGX: 120 V
IGB: D size batteries or optional AC adapter (batteries not included) 500 hour battery life

**Operating Temperature:**
23º F to 109º F (-5º C to 40º C)

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP CC 05-020, Class III, 3,000 d



## Standard Features

- Ability to toggle between lb and kg
- Stainless steel cover with die-cast base
- Checkweighing function
- Configurable display resolution: 1/3,000, 1/6,000, 1/7,500 (NOTE: Legal for Trade setting is 1/3,000)
- 10 PLUs for storing tare, upper limit, lower limit

**IGX:**
- Display, VFD
- Power, 120 VAC
- Internal buzzer

**IGB:**
- Display, LCD
- Power, two D-size batteries or optional AC adapter
- Selectable automatic power-off function
- Batteries not included

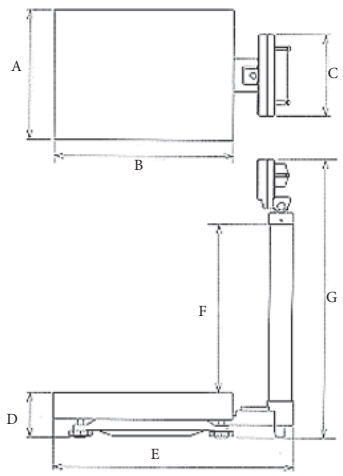
**APPROVALS**

## Part Number/Price

| Part # | Capacity | Platform Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **IGX** | | | | |
| **84989** | 150 lb (60 kg) x 05 lb (0.02 kg) | 15.75 x 21.65 x 5.43 in | 43 lb | $895.00 |
| **84990** | 300 lb (150 kg) x 0.1 lb (0.05 kg) | 15.75 x 21.65 x 5.43 in | 43 lb | $895.00 |
| **IGB** | | | | |
| **84991** | 150 lb (60 kg) x 0.05 lb (0.02) kg | 15.75 x 21.65 x 5.43 in | 41 lb | $795.00 |
| **84992** | 300 lb (150) kg x 0.1 lb (0.05) kg | 15.75 x 21.65 x 5.43 in | 41 lb | $795.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **75473** | AC adapter (IGB only) | $25.00 |




| Drawing Dimensions | | | |
|---|---|---|---|
| A | 15.75 in (400 mm) | E | 29.06 in (738 mm) |
| B | 21.65 in (550 mm) | F | 22.00 in (560 mm) |
| C | 9.84 in (250 mm) | G | 33.70 in (856 mm) |
| D | 5.43 in (138 mm) | | |





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# BenchPro™ BP-P

Postal Bench Scale



## Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1 in (29 mm) characters protected by heavy duty tempered glass
- Powered USB HID point of sale interface – kg model only
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Four AA alkaline battery operation for portability
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved

## APPROVALS

## Specifications

**Dynamic Response:**
Response time for stable weight:
0 - 1,000d, 1,000 ms, maximum mean average
1,000d +, 1,500 ms, maximum mean average

**Internal Resolution:**
500,000 internal count minimum

**Overload Protection:**
Corner & center overload protection

**Power:**
**In-line Power Supply (included)**
**Input:** 100-240 VAC, +10% -15%, 3-wire w/ground
Standard terminated with USA 3-prong plug
**Output:** 12 V at .1 Amps DC minimum
**Frequency:** 50/60 Hz +/-3 Hz, standard
Power Supply Approvals: UL, CE, EN, CUL
**Battery Type:** Four AA alkaline batteries, 6 V, with low battery indication at 4.3 volts (not included)
**Battery Life:**
50-250 hrs depending on backlight and auto-shutdown settings

**USB HID:**
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

**Divisions (multi-range):**
**Kg triple range**
0-5 kg x 0.001 kg
0-10 kg x 0.002 kg
0-35 kg x 0.01 kg
**Lb/oz dual range**
0-7 lb x 0.05 oz
0-70 lb x 0.2 oz

**Divisions (multi-interval) :**
**Kg triple interval**
0-5 kg x 0.001 kg
5-10 kg x 0.002 kg
10-35 kg x 0.01 kg
**Lb/oz dual interval**
0-7 lb x 0.05 oz
7-70 lb x 0.2 oz

**Construction:**
Die-cast aluminum load bridge and base housing with stainless steel weight platter

**Display:**
Minimum key press life of 500,000 cycles, ABS plastic housing
6 annunciators to indicate Zero, Gross/Brutto, Net, W1/W2/W3 multi-range
3 buttons: Units, On/Off, F1 (Tare is not applicable)

**RS-232 Cable (included):**
10 ft DB 9-pin male to female, straight pass through

**USB Cable (included):**
46 in (1,168.4 mm) A/B type USB cable

**Approvals:**
NTEP COC # 17-002
Canada Weights and Measures: AM - 6050
CE Marked

**Warranty:**
Two-year limited warranty



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## Part Number/Price

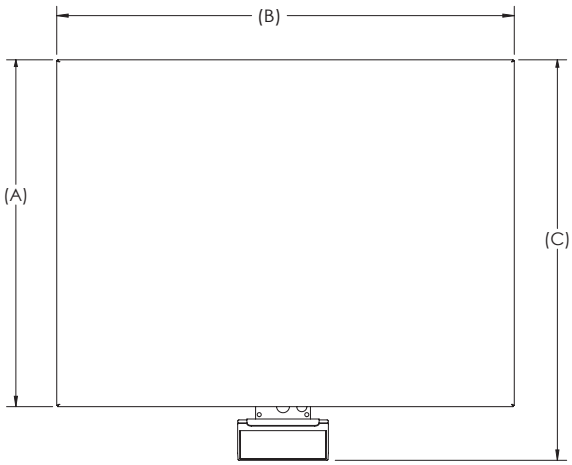
| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **187832** | 35 kg triple range | 12 x 14 in | 18 lb | $845.00 |
| **195741** | 35 kg triple interval | 12 x 14 in | 18 lb | $845.00 |
| **192361** | 70 lb dual range | 12 x 14 in | 18 lb | $845.00 |
| **195742** | 70 lb dual interval | 12 x 14 in | 18 lb | $845.00 |

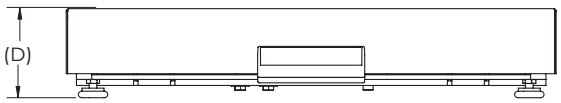
## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **174783** | Column bracket and post (12 x 14 scale only) | 2 lb | $45.00 |
| **180901** | Second Customer display, BenchPro BP-P no keyboard with 68 in cable | 4 lb | $65.00 |
| **174784** | Second Remote operator display, BenchPro BP-P with 68 in cable | 4 lb | $80.00 |
| **183103** | 16 in (H) tabletop display post for use with second display, customer or remote operator | 4 lb | $195.00 |
| **178501** | USB-RS-232 serial adapter 3.28 ft cable | 1 lb | $45.00 |

## Dimensions - Inches

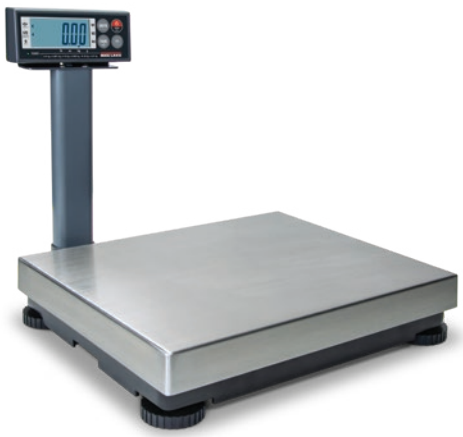
| | A | B | C | D |
|---|---|---|---|---|
| 12 x 14 | 12 | 14 | 14.5 | 2.70 |






*BP-P shown with 183103 and 180901*



*Shown with 174783*





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# BenchPro™ BP-S

Shipping Bench Scale



## Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1 in (29 mm) characters protected by heavy duty tempered glass
- Powered USB HID point of sale interface – kg model only
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Four AA alkaline battery operation for portability
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved

## APPROVALS



*BP-S 12 x 14 in*

## Specifications

**Dynamic Response:**
Response time for stable weight:
0 - 1,000d, 1,000 ms, maximum mean average
1,000d +, 1,500 ms, maximum mean average

**Internal Resolution:**
500,000 internal count minimum

**Overload Protection:**
Corner & center overload protection

**Power:**
**In-line Power Supply (included)**
**Input:** 100-240 VAC, +10% -15%, 3-wire w/ground
Standard terminated with USA 3-prong plug
**Output:** 12V at .1 Amps DC minimum
**Frequency:** 50/60 Hz +/-3 Hz, standard
**Approvals:** UL, CE, EN, CUL

**Battery Power (BP-S 12 x 14 scale only):**
**Battery Type:** Four AA alkaline batteries, 6 V, with low battery indication at 4.3 volts (not included)
**Battery Life:** 50-250 hrs depending on backlight and auto-shutdown settings

**USB HID:**
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

**Construction:**
Powder coat painted mild steel base plate and load bridge with stainless steel weight platter
BP-S 12 x 14 scale- Die-cast aluminum load bridge and base housing with stainless steel weight platter

**Display:**
Minimum key press life of 500,000 cycles,
ABS plastic housing
6 annunciators to indicate Zero, Gross/Brutto, Net, W1/W2/W3 multi-range
4 buttons: Units, Tare, On/Off, F1

**RS-232 Cable (included):**
10 ft DB 9-pin male to female, straight pass through

**USB Cable (included):**
46 in (1168.4 mm) A/B type USB cable

**Approvals:**
NTEP COC # 17-002
Canada Weights and Measures: AM - 6050
CE Marked

**Warranty:**
Two-year limited warranty



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## Part Number/Price

| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **174879 *** | 150 x 0.05 lb (75 x 0.02 kg) | 12 x 14 in | 17 lb | $565.00 |
| **182993** | 150 x 0.05 lb (75 x 0.02 kg) | 12 x 16 in | 31 lb | $745.00 |
| **182391** | 100 x 0.02 lb (50 x 0.01 kg) | 18 x 18 in | 63 lb | $1,095.00 |
| **182378** | 150 x 0.05 lb (75 x 0.02 kg) | 18 x 18 in | 63 lb | $1,095.00 |
| **182382** | 300 x 0.1 lb (150 x 0.05 kg) | 18 x 18 in | 63 lb | $1,095.00 |
| **182395** | 300 x 0.1 lb (150 x 0.05 kg) | 20 x 20 in | 76 lb | $1,295.00 |
| **182399** | 300 x 0.1 lb (150 x 0.05 kg) | 24 x 24 in | 131 lb | $1,495.00 |

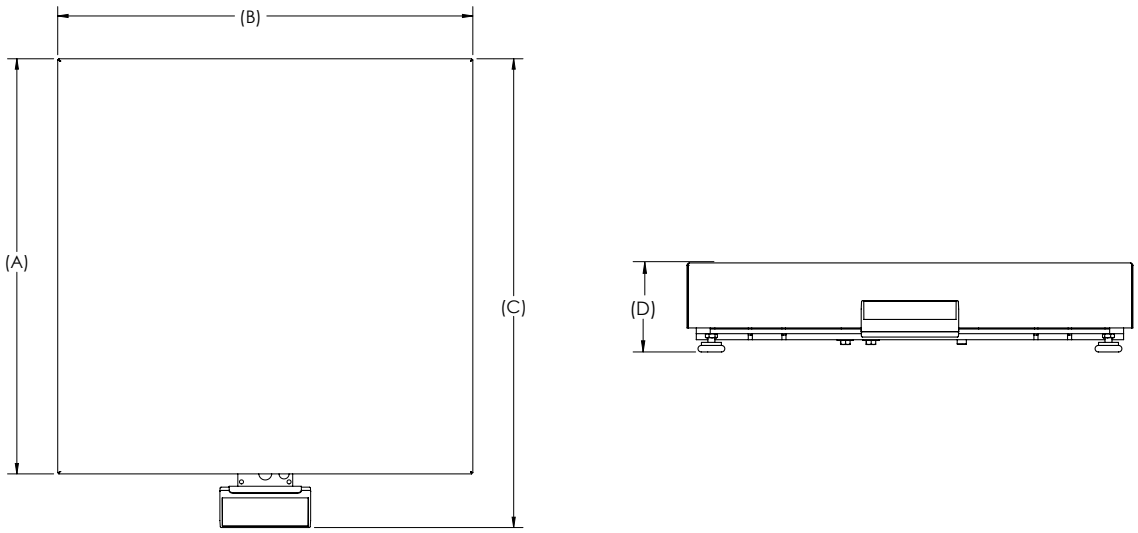
** Battery or DC power*

## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **174783** | Column bracket and post (12 x 14 scale only) | 2 lb | $45.00 |
| **180901** | Second Customer display, BenchPro BP-S no keyboard with 68 in cable | 4 lb | $65.00 |
| **174784** | Second Remote operator display, BenchPro BP-S with 68 in cable | 4 lb | $80.00 |
| **183103** | 16 in (H) tabletop display post for use with second display, customer or remote operator | 4 lb | $195.00 |
| **178501** | USB-RS-232 serial adapter | 1 lb | $45.00 |

## Dimensions - Inches

| | A | B | C | D |
|---|---|---|---|---|
| 12 x 14 | 12 | 14 | 14.5 | 2.70 |
| 12 x 16 | 12 | 16 | 15.30 | 4.32 |
| 18 x 18 | 18 | 18 | 21.10 | 4.30 |
| 20 x 20 | 20 | 20 | 23.10 | 4.30 |
| 24 x 24 | 24 | 24 | 27.10 | 4.30 |








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# BenchPro™ BP-SB

Shipping Bench Scale with Ball Top Shroud



## Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1 in (29 mm) characters protected by heavy duty tempered glass
- Powered USB HID point of sale interface – kg model only
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Four AA alkaline battery operation for portability
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved

## APPROVALS

## Specifications

**Dynamic Response:**
Response time for stable weight:
0 - 1,000d, 1,000 ms, maximum mean average
1,000d +, 1,500 ms, maximum mean average

**Internal Resolution:**
500,000 internal count minimum

**Overload Protection:**
Corner & center overload protection

**Power:**
**In-line Power Supply (included)**
**Input:** 100-240 VAC, +10% -15%, 3-wire w/ground
Standard terminated with USA 3-prong plug
**Output:** 12V at .1 Amps DC minimum
**Frequency:** 50/60 Hz +/-3 Hz, standard
**Approvals:** UL, CE, EN, CUL

**USB HID:**
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

**Construction:**
Powder coat-painted mild steel base plate and load bridge. Carbon steel ball with carbon steel zinc-plated housing. Stainless steel shroud.

**Display:**
Minimum key press life of 500,000 cycles,
ABS plastic housing
6 annunciators to indicate Zero, Gross/Brutto, Net, W1/W2/W3 multi-range
4 buttons: Units, Tare, On/Off, F1

**RS-232 Cable (included):**
10 ft DB 9-pin male to female, straight pass through

**USB Cable(included):**
46 in (1168.4 mm) A/B type USB cable

**Approvals:**
NTEP COC # 17-002
Canada Weights and Measures: AM - 6050
CE Marked

**Warranty:**
Two-year limited warranty



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# BenchPro™ BP-SB

Shipping Bench Scale with Ball Top Shroud

## Part Number/Price

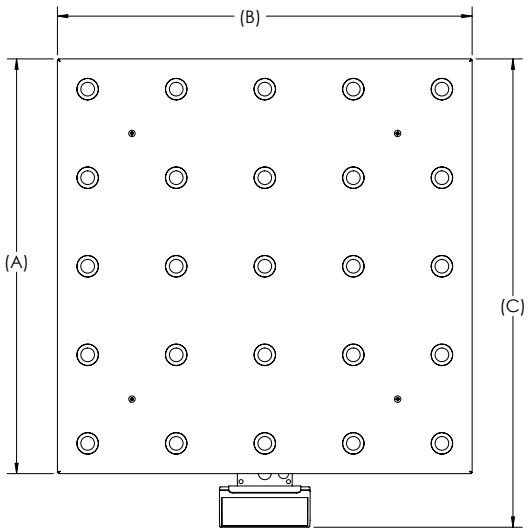
| Part # | Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **182995** | 150 x 0.05 lb (75 x 0.02 kg) | 12 x 16 in | 37 lb | $945.00 |
| **182393** | 100 x 0.02 lb (50 x 0.01 kg) | 18 x 18 in | 73 lb | $1,445.00 |
| **182380** | 150 x 0.05 lb (75 x 0.02 kg) | 18 x 18 in | 73 lb | $1,445.00 |
| **182384** | 300 x 0.1 lb (150 x 0.05 kg) | 18 x 18 in | 73 lb | $1,445.00 |
| **182397** | 300 x 0.1 lb (150 x 0.05 kg) | 20 x 20 in | 88 lb | $1,595.00 |
| **182401** | 300 x 0.1 lb (150 x 0.05 kg) | 24 x 24 in | 131 lb | $1,795.00 |

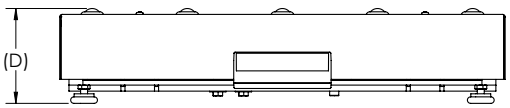
## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **180901** | Second Customer display, BenchPro BP-SB no keyboard with 68 in cable | 4 lb | $65.00 |
| **174784** | Second Remote operator display, BenchPro BP-SB with 68 in cable | 4 lb | $80.00 |
| **183103** | 16 in (H) tabletop display post for use with second display, customer or remote operator | 4 lb | $195.00 |
| **178501** | USB-RS-232 serial adapter | 1 lb | $45.00 |

## Dimensions - Inches

| | A | B | C | D |
|---|---|---|---|---|
| 12 x 16 | 12 | 16 | 15.30 | 4.32 |
| 18 x 18 | 18 | 18 | 21.10 | 4.86 |
| 20 x 20 | 20 | 20 | 23.10 | 4.86 |
| 24 x 24 | 24 | 24 | 27.10 | 4.86 |






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# BenchPro™ BP-SR

Shipping Bench Scale with Roller Conveyor



## Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1 in (29 mm) characters protected by heavy duty tempered glass
- Powered USB HID point of sale interface – kg model only
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Four AA alkaline battery operation for portability
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved

## APPROVALS

## Specifications

**Dynamic Response:**
Response time for stable weight:
0 - 1,000d, 1,000 ms, maximum mean average
1,000d +, 1,500 ms, maximum mean average

**Internal Resolution:**
500,000 internal count minimum

**Overload Protection:**
Corner & center overload protection

**Power:**
**In-line Power Supply (included)**
**Input:** 100-240 VAC, +10% -15%, 3-wire w/ground
Standard terminated with USA 3-prong plug
**Output:** 12V at .1 Amps DC minimum
**Frequency:** 50/60 Hz +/-3 Hz, standard
**Approvals:** UL, CE, EN, CUL

**USB HID:**
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

**Construction:**
Powder coat painted mild steel base plate and load bridge with stainless steel roller conveyor

**Display:**
Minimum key press life of 500,000 cycles,
ABS plastic housing
6 annunciators to indicate Zero, Gross/Brutto, Net, W1/W2/W3 multi-range
4 buttons: Units, Tare, On/Off, F1

**RS-232 Cable (included):**
10 ft DB 9-pin male to female, straight pass through

**USB Cable (included):**
46 in (1168.4 mm) A/B type USB cable

**Approvals:**
NTEP COC # 17-002
Canada Weights and Measures: AM - 6050
CE Marked

**Warranty:**
Two-year limited warranty



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## Part Number/Price

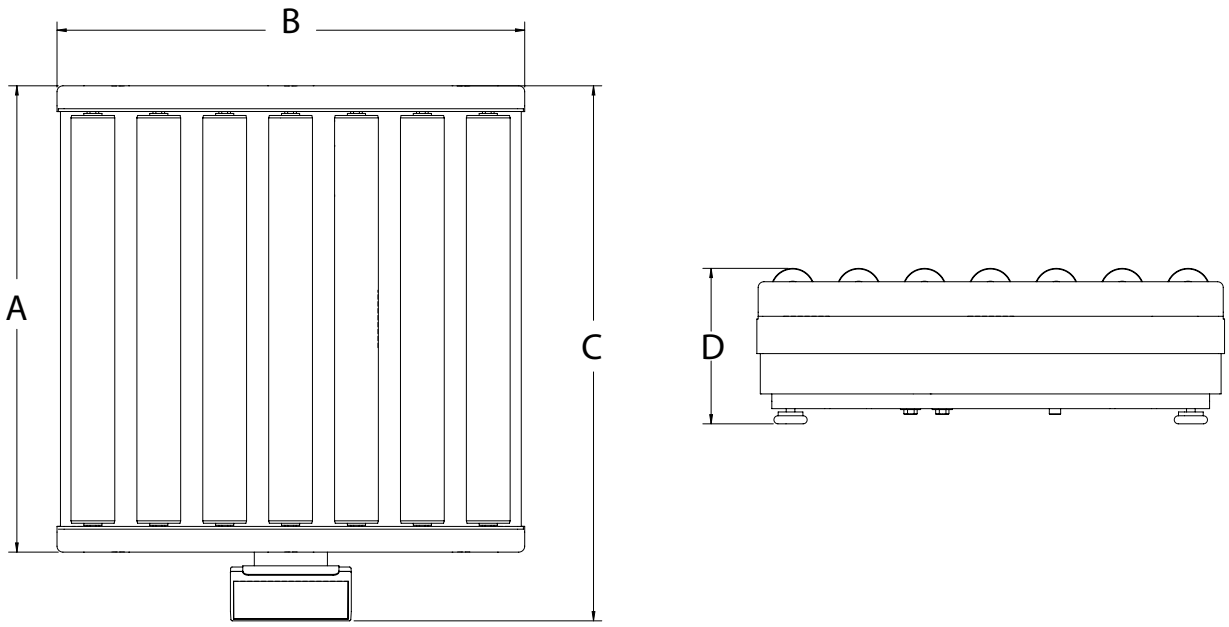
| Part # | Platform Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **182996** | 150 x 0.05 lb (75 x 0.02 kg) | 12 x 16 in | 41 lb | $975.00 |
| **182398** | 300 x 0.1 lb (150 x 0.05 kg) | 20 x 20 in | 94 lb | $1,595.00 |
| **182402** | 300 x 0.1 lb (150 x 0.05 kg) | 24 x 24 in | 131 lb | $1,795.00 |

## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **180901** | Second Customer display, BenchPro BP-SR no keyboard with 68 in cable | 4 lb | $65.00 |
| **174784** | Second Remote operator display, BenchPro BP-SR with 68 in cable | 4 lb | $80.00 |
| **183103** | 16 in (H) tabletop display post for use with second display, customer or remote operator | 4 lb | $195.00 |
| **178501** | USB-RS-232 serial adapter | 1 lb | $45.00 |

## Dimensions - Inches

| | A | B | C | D |
|---|---|---|---|---|
| 12 x 16 | 12 | 16 | 15.30 | 5.95 |
| 18 x 18 | 18 | 18 | 21.10 | 6.50 |
| 20 x 20 | 20 | 20 | 23.10 | 6.50 |
| 24 x 24 | 24 | 24 | 27.10 | 6.50 |








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# BenchMark® MSC-10 Mobile Scale Cart



## Specifications

**Capacity:**
1,000 lb/500 kg maximum capacity

**Warranty:**
One-year limited warranty

## Standard Features

- 2 swivel, locking casters and 2 rigid casters
- Adjustable height with telescoping tube designed legs
- 18 in indicator stand for mounting CW90/90X, 480/480 Plus, 482/482 Plus, 680 Synergy

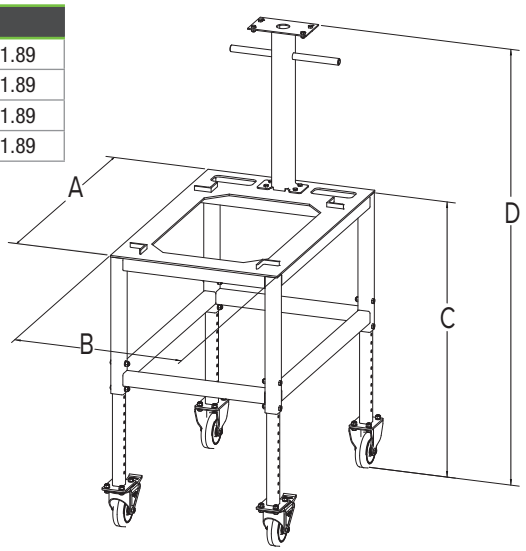
## Part Number/Price

| Part # | Description | Cart Dimensions (L x W x H) | Est. Weight | Price |
|---|---|---|---|---|
| **Mild Steel** | | | | |
| **190201** | Designed for 12 x 18 Benchmark mild steel series | 25 x 14 x 41.89-51.89 in (22.78-32.78 in*) | 70 lb | $1,035.00 |
| **190202** | Designed for 18 x 18 Benchmark mild steel series | 25 x 20 x 41.89-51.89 in (22.78-32.78 in*) | 83 lb | $1,055.00 |
| **190203** | Designed for 18 x 24 Benchmark mild steel series | 31 x 20 x 41.89-51.89 in (22.78-32.78 in*) | 93 lb | $1,075.00 |
| **190204** | Designed for 24 x 24 Benchmark mild steel series | 31 x 26 x 41.89-51.89 in (22.78-32.78 in*) | 101 lb | $1,095.00 |
| **Stainless Steel** | | | | |
| **190205** | Designed for 12 x 18 Benchmark stainless steel and HE series | 25 x 14 x 41.89-51.89 in (22.78-32.78 in*) | 70 lb | $1,435.00 |
| **190206** | Designed for 18 x 18 Stainless steel and HE series | 25 x 20 x 41.89-51.89 in (22.78-32.78 in*) | 83 lb | $1,455.00 |
| **190207** | Designed for 18 x 24 Stainless steel and HE series | 31 x 20 x 41.89-51.89 in (22.78-32.78 in*) | 93 lb | $1,475.00 |
| **190209** | Designed for 24 x 24 Stainless steel and HE series | 31 x 26 x 41.89-51.89 in (22.78-32.78 in*) | 101 lb | $1,495.00 |

**Height of cart without indicator stand*
*Wheels on standard carts are not conductive. If the end user plans to use the cart with an IS indicator they will need a custom cart quoted with conductive wheels*
*Cart not compatible with HE-X. See MSC-40.*

## Dimensions - Inches

| | A | B | C | D |
|---|---|---|---|---|
| Designed for 12 x 18 scale | 25 | 14 | 22.78-32.78 | 41.89-51.89 |
| Designed for 18 x 18 scale | 25 | 20 | 22.78-32.78 | 41.89-51.89 |
| Designed for 18 x 24 scale | 31 | 20 | 22.78-32.78 | 41.89-51.89 |
| Designed for 24 x 24 scale | 31 | 26 | 22.78-32.78 | 41.89-51.89 |






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# BenchMark® MSC-20 Mobile Scale Cart



## Specifications

**Capacity:**
Lower base frame 1,000 lb/500 kg maximum capacity
Upper base frame 50 lb/25 kg maximum capacity

**Warranty:**
One-year limited warranty

## Standard Features

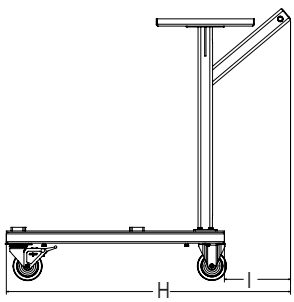
- 2 swivel, locking casters and 2 rigid casters
- Designed to easily transport counting scale and secondary scale

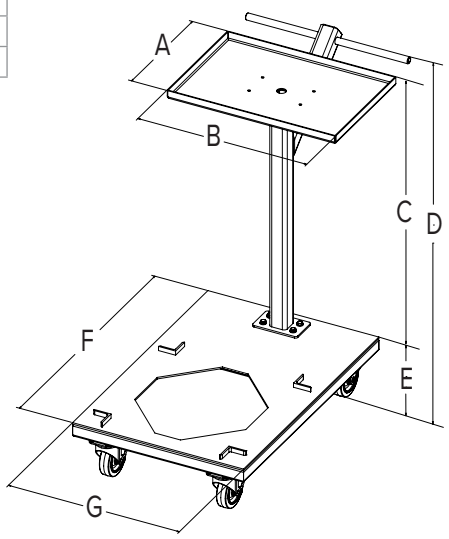
## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Mild Steel** | | | |
| **197502** | Designed for 12 x 18 Benchmark Mild Steel scale | 85 | $1,235.00 |
| **197503** | Designed for 18 x 18 Benchmark Mild Steel scale | 85 | $1,255.00 |
| **197504** | Designed for 18 x 24 Benchmark Mild Steel scale | 88 | $1,275.00 |
| **197505** | Designed for 24 x 24 Benchmark Mild Steel scale | 96 | $1,295.00 |
| **Stainless Steel** | | | |
| **197506** | Designed for 12 x 18 Benchmark SST and Benchmark HE scale | 90 | $1,835.00 |
| **197507** | Designed for 18 x 18 Benchmark SST and Benchmark HE scale | 90 | $1,855.00 |
| **197508** | Designed for 18 x 24 Benchmark SST and Benchmark HE scale | 93 | $1,875.00 |
| **197509** | Designed for 24 x 24 Benchmark SST and Benchmark HE scale | 101 | $1,895.00 |

## Dimensions - Inches

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| Designed for 12 x 18 scale | 19.50 | 13.25 | 29.18 | 36 | 6.81 | 30 | 20 | 39 | 9 |
| Designed for 18 x 18 scale | 19.50 | 13.25 | 29.18 | 36 | 6.81 | 30 | 20 | 39 | 9 |
| Designed for 18 x 24 scale | 19.50 | 13.25 | 29.18 | 36 | 6.81 | 35 | 20 | 44 | 9 |
| Designed for 24 x 24 scale | 19.50 | 13.25 | 29.18 | 36 | 6.81 | 35 | 26 | 44 | 9 |








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# BenchMark® MSC-30 Mobile Scale Cart



## Specifications

**Capacity:**
1,000 lb/500 kg maximum capacity

**Warranty:**
One-year limited warranty

## Standard Features

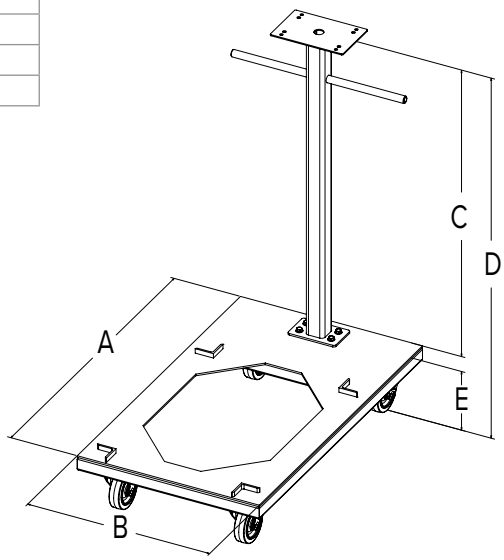
- 2 swivel, locking casters and 2 rigid casters
- Indicator stand for mounting CW90/90X, 480/480Plus, 482/482Plus, 680 Synergy

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Mild Steel** | | | |
| **197510** | Designed for 12 x 18 Benchmark Mild Steel scale | 67 | $1,235.00 |
| **197511** | Designed for 18 x 18 Benchmark Mild Steel scale | 67 | $1,255.00 |
| **197512** | Designed for 18 x 24 Benchmark Mild Steel scale | 70 | $1,275.00 |
| **197513** | Designed for 24 x 24 Benchmark Mild Steel scale | 78 | $1,295.00 |
| **Stainless Steel** | | | |
| **197514** | Designed for 12 x 18 Benchmark SST and Benchmark HE scale | 72 | $1,835.00 |
| **197515** | Designed for 18 x 18 Benchmark SST and Benchmark HE scale | 72 | $1,855.00 |
| **197516** | Designed for 18 x 24 Benchmark SST and Benchmark HE scale | 75 | $1,875.00 |
| **197517** | Designed for 24 x 24 Benchmark SST and Benchmark HE scale | 83 | $1,895.00 |

## Dimensions - Inches

| | A | B | C | D | E |
|---|---|---|---|---|---|
| Designed for 12 x 18 scale | 30 | 20 | 34.25 | 41 | 6.81 |
| Designed for 18 x 18 scale | 30 | 20 | 34.25 | 41 | 6.81 |
| Designed for 18 x 24 scale | 35 | 20 | 34.25 | 41 | 6.81 |
| Designed for 24 x 24 scale | 35 | 26 | 34.25 | 41 | 6.81 |






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# BenchMark® MSC-40 Mobile Scale Cart



## Specifications

**Capacity:**
1,000 lb/500 kg maximum capacity

**Warranty:**
One-year limited warranty

## Standard Features

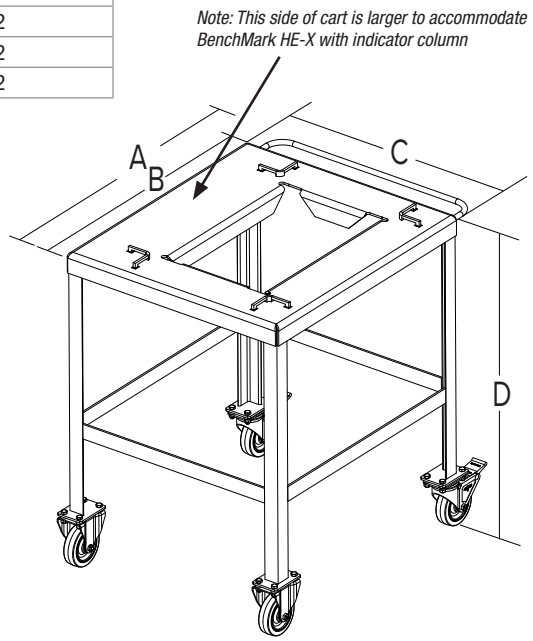
- 2 swivel, locking casters and 2 rigid casters
- Rugged washdown design meets Sanitary Design Principles

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Stainless Steel** | | | |
| **197518** | Designed for 12 x 18 Benchmark HE-X scale | 62 lb | $1,435.00 |
| **197519** | Designed for 18 x 18 Benchmark HE-X scale | 62 lb | $1,455.00 |
| **197520** | Designed for 18 x 24 Benchmark HE-X scale | 69 lb | $1,475.00 |
| **197521** | Designed for 24 x 24 Benchmark HE-X scale | 79 lb | $1,495.00 |

## Dimensions - Inches

| | A | B | C | D |
|---|---|---|---|---|
| Designed for 12 x 18 scale | 24.75 | 21 | 17.875 | 32 |
| Designed for 18 x 18 scale | 24.75 | 21 | 24 | 32 |
| Designed for 18 x 24 scale | 30.75 | 27 | 24 | 32 |
| Designed for 24 x 24 scale | 30.75 | 27 | 30 | 32 |








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# Bench Scale Ball Transfer and Roller Conveyor

1. Rice Lake Weighing Systems model number or part number of bench scale _____
2. Dimensions of scale: _____" L x _____ " W
3. Capacity of scale: _____ lb
4. Dimensions of the smallest box/container to be used with the scale: _____" L x _____" W



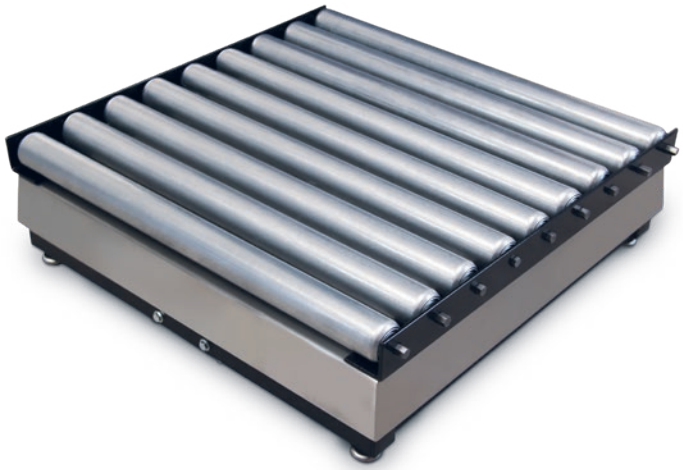
## Ball Transfer

6. Construction of Ball Transfer
   - ☐ Steel Ball, Steel Housing Zinc Finish
   - ☐ Stainless Steel Ball, Steel Housing Zinc Finish
   - ☐ Stainless Steel Ball, Stainless Steel Housing
7. Center to center ball dimension, if known:



## Ball Transfer with Shroud

6. Construction of Ball Transfer
   - ☐ Steel Ball, Steel Housing Zinc Finish
   - ☐ Stainless Steel Ball, Stainless Steel Housing
7. Center to center ball dimension, if known:



## Roller Conveyor

8. Roller Diameter, if known:
9. Center to Center Dimension, if known:
10. Construction of Rollers
    - ☐ Plain Steel
    - ☐ Galvanized Steel
    - ☐ Aluminum
    - ☐ Stainless Steel
7. Direction of roller conveyor, if platform is rectangular shaped (i.e. 18" x 24" scale, please tell us if the rollers should be 18" or 24" long.)



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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **112044** | 12 in column for IQ plus® 210, CW-90, CW-90X, 480/482 Legend Series, 680 Synergy Series | $135.00 |
| **112045** | 18 in column for IQ plus® 210, CW-90, CW-90X, 480/482 Legend Series, 680 Synergy Series | $180.00 |
| **196363** | 12 in column for 882IS/882IS Plus with battery | $200.00 |
| **196364** | 18 in column for 882IS/882IS Plus with battery | $245.00 |
| **197482** | 12 in column for 882IS/882IS Plus with power supply (Note: Power supply does not mount to column) | $135.00 |
| **197484** | 18 in column for 882IS/882IS Plus with power supply (Note: Power supply does not mount to column) | $180.00 |
| **64576** | Attachment bracket for IQ plus® 210 and 480/482 Legend Series | $85.00 |

*Available for the BenchMark SL, BenchMark SL/HE, BenchMark Mild Steel, BenchMark Stainless Steel, BenchMark HE, BenchMark HE-X, CW-80B, CW-90B and CW90-XB*




*CW-90B with 480 indicator and 12 in column*




*Base with 882IS/882IS Plus indicator with battery and 12 in column*




*Attachment bracket with IQ Plus 2100*





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# Ordering Weights and Weight Sets

1. Please describe your application and tell us what you need to accomplish with the weight(s) or weight set.
2. What is the maximum amount of weight you will need at any one time?
3. What is the minimum amount of weight you will need at any one time?
4. What tolerance are you looking for?
5. Is your tolerance driven by the equipment under test; the application; an internal specification document; or another source?
6. What standard (ASTM or OIML) is required or preferred?
7. What configuration do you need (5-3-2-1 or 5-2-2-1)?
8. Do you need something that is custom manufactured?
9. What is your budget for this project?
10. Tell us about the environment. Is it:
    a. indoor/outdoor?
    b. wet/dry?
    c. windy/still?
    d. corrosive, hazardous, or explosive?
    e. a clean room?
    f. an environment with biohazard, electrostatic or magnetic conditions to consider?
    g. an environment with other noteworthy conditions? If so, what are they?
11. Are you replacing an existing weight or weight set?



12. If the answer to question number 11 is yes:
    a. What do you like/dislike about the existing weights?
    b. What configuration is the existing set?
    c. What style is the existing set?
    d. What laboratory documentation is needed for the existing set?
13. Does this weight set need to be Legal for Trade?
14. Do you need ISO/IEC 17025 and ISO 9001 laboratory documentation?
15. If you do not need ISO/IEC 17025 and ISO 9001 laboratory documentation, do you need traceability to NIST?
16. If you do not need any documentation, you still have the option on page 29.
17. If you are getting any of the laboratory documentation above, do you need a recalibration date?

    Your existing weights and weight sets should be recertified on a managed periodic basis. The recertification period is determined by a number of factors, including but not necessarily limited to, the environment, frequency of use, demands of the process, quality of the weighing devices in question, age of the weights in question and handling during use.
18. What other precision services/equipment (recalibration, balances, accessories, static electricity) do you use?



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# Weight and Calibration Specifications

Rice Lake Weighing Systems metrology staff has participated in NIST/OWM training seminars, regional metrology RMAP groups and round-robin metrology programs with state labs.

Rice Lake's calibration labs have traceability to the SI through NIST.

## Weights

Rice Lake offers cast iron weights and three designs of stainless steel weights. Due to varying configurations, the actual appearance of your product may be slightly different than shown on the catalog page. Serial numbers are available for an additional charge. Individual leaf weights should be ordered with protective vial (individual leaf weights are for custom-designed kits).

## Weight Sets

Rice Lake offers many configurations for weight sets. A standard set would be as follows:

5-2-2-1: (1) 50 g, (2) 20 g and (1) 10 g

5-3-2-1: (1) 50 g, (1) 30 g, (1) 20 g and (1) 10 g

Custom sets are available as build-to-order to meet your specific requirements.

Each weight set consists of the weights, case and/or small weight case (as appropriate), and appropriate lifting design consisting of one or more lifters, tweezer and white cotton gloves.

OIML and ASTM weight sets larger than 500 grams or one pound include a hardwood case with velvet-lined pockets. Cases are available to replace wooden cases if portability is required. Weight sets with the largest weight of 500 grams include a precision-machined polyvinyl, crush resistant case.

Serial numbers are not stamped or engraved on polished weights or milligram weights.

The correct class weight is dependent on the use. Weights should be more accurate than the precision of the weighing device and it is recommended that a weight has an accuracy of one-third (1/3) of the weighing device readability.

## Weights Kits

All cylindrical kits (excluding grip handle weights) include their own protective case and glove set for safe handling.

## Total Measurement Assurance Program (TMAP)

TMAP has been part of the Rice Lake metrology brand almost since its inception. TMAP covers all phases of our weight manufacturing and metrology groups to ensure that metrology services meet all requirements.








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# CAST IRON

**Painted Weights**
with adjusting cavity for sealing

**Classes Available:**

**ASTM** Class 6 and 7

**OIML** Class M1




**Applications:**

- Field standards for testing industrial devices Class III, Class IIIL or Class IIII
- Testing for non-marked scales without class designation
- Verifying scales are within specified accuracy and tolerances

**Styles Available:**

- Grip-handle design for easy handling
- Nesting slab weights for heavy-capacity weighing
- Slotted weights and hangers for suspended weighing
- Counterpoise weights for ratio weighing

**Features:**

- Nominal value marked on weight
- Weight capacities of 10kg/20lb and up meet NIST Handbook 105-1 and Handbook 44 specifications
- Metric weights designated by gold paint
- Avoirdupois (pound) weights designated by silver paint
- Serial numbers may be stamped on weights (optional)



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# Cast Iron

## Grip-handle and Nesting Slab Weights

| ASTM Class 6 | | | | | | | | Optional |
|---|---|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Width** | **Length** | **Height** | **Slot Width** | **Slot Depth*** | **Price** | **Accredited Certificate** |
| 3,000 lb | **12872** | 20 3/4 in (527.1 mm) | 20 3/4 in (527.1 mm) | 29 in (736.6 mm) | 3 1/2 in (88.9 mm) | 2 3/4 in (69.9 mm) | $9,141.00 | $310.00 |
| 2,500 lb | **12854** | 20 3/4 in (527.1 mm) | 20 3/4 in (527.1 mm) | 24 3/4 in (628.65 mm) | 3 31/32 in (100.8 mm) | 2 3/4 in (69.9 mm) | $8,199.00 | $235.00 |
| 2,000 lb | **12868** | 20 3/4 in (527.05 mm) | 20 3/4 in (527.05 mm) | 19 1/2 in (495.3 mm) | 3 1/2 in (88.9 mm) | 2 3/4 in (69.9 mm) | $7,250.00 | $235.00 |
| 1,500 lb | **12864** | 15 1/8 in (384.2 mm) | 15 1/8 in (384.2 mm) | 26 7/8 in (682.6 mm) | 2 1/2 in (63.5 mm) | 2 1/4 in (57.2 mm) | $6,565.00 | $235.00 |
| 1,250 lb | **12858** | 15 in (381.0 mm) | 15 in (381.0 mm) | 23 3/4 in (603.3 mm) | 2 1/2 in (63.5 mm) | 2 1/4 in (57.2 mm) | $5,485.00 | $235.00 |
| 1,000 lb | **12850** | 15 in (381.0 mm) | 15 1/2 in (393.7 mm) | 18 11/16 in (474.7 mm) | 2 3/4 in (69.9 mm) | 2 29/32 in (73.8 mm) | $2,626.00 | $235.00 |
| 500 lb | **12844** | 11 1/2 in (292.1 mm) | 12 in (304.8 mm) | 15 3/4 in (400.1 mm) | 2 1/2 in (63.5 mm) | 1 29/32 in (48.4 mm) | $1,650.00 | $235.00 |
| 250 lb | **12892** | 9 3/4 in (247.65 mm) | 9 3/4 in (247.65 mm) | 12 in (304.8 mm) | 2 1/2 in (63.5 mm) | 2 in (50.8 mm) | $1,510.00 | $235.00 |
| 200 lb | **12890** | 9 3/4 in (247.65 mm) | 9 3/4 in (247.65 mm) | 10 in (254 mm) | 2 1/2 in (63.5 mm) | 2 in (50.8 mm) | $1,313.00 | $235.00 |
| 100 lb | **12862** | 9 1/8 in (231.8 mm) | 7 in (177.8 mm) | 7 7/8 in (200.0 mm) | 4 1/2 in (114.3 mm) | 1 1/2 in (38.1 mm) | $577.00 | $105.00 |
| 50 lb | **12839** | 7 29/32 in (200.8 mm) | 5 1/2 in (139.7 mm) | 6 9/16 in (166.7 mm) | 4 1/2 in (114.3 mm) | 1 21/32 in (42.1 mm) | $137.00 | $80.00 |
| 30 lb | **12878** | 8 1/4 in (209.6 mm) | 4 29/32 in (124.6 mm) | 4 1/2 in (114.3 mm) | 4 15/32 in (113.5 mm) | 31/32 in (24.6 mm) | $180.00 | $80.00 |
| 25 lb | **12833** | 6 1/2 in (165.1 mm) | 4 1/2 in (114.3 mm) | 4 15/16 in (125.4 mm) | 3 5/8 in (92.1 mm) | 31/32 in (24.6 mm) | $120.00 | $80.00 |
| 20 lb | **12870** | 5 3/4 in (146.1 mm) | 4 15/32 in (113.5 mm) | 5 3/32 in (129.4 mm) | 3 31/32 in (100.8 mm) | 1 5/32 in (29.4 mm) | $97.00 | $80.00 |

| ASTM Class 7 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Width** | **Length** | **Height** | **Price** | **Accredited Certificate** |
| 10 lb | **12828** | 5 in (127.0 mm) | 3 1/4 in (82.6 mm) | 4 1/32 in (102.4 mm) | $76.00 | $80.00 |
| 5 lb | **12823** | 4 in (101.6 mm) | 2 9/16 in (65.1 mm) | 3 7/32 in (81.8 mm) | $58.00 | $80.00 |
| 2 lb | **12874** | 3 in (76.2 mm) | 2 1/8 in (54.0 mm) | 1 3/4 in (44.5 mm) | $55.00 | $65.00 |
| 1 lb | **12876** | 2 1/2 in (63.5 mm) | 1 11/16 in (42.9 mm) | 1 13/32 in (35.7 mm) | $50.00 | $65.00 |

| Nesting Slab ASTM Class 6 | | | | | | | | Optional |
|---|---|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Width** | **Length** | **Height** | **Slot Width** | **Slot Depth*** | **Price** | **Accredited Certificate** |
| 2,500 lb | **12860** | 42 in (1066.8 mm) | 30 in (762 mm) | 8 1/4 in (209.5 mm) | 2 in (50.8 mm) | 2 1/4 in (57.15 mm) | $8,199.00 | $235.00 |
| 1,000 lb | **34563** | 29 1/2 in (749.3 mm) | 19 1/2 in (495.3 mm) | 7 1/4 in (184.15 mm) | 2 in (50.8 mm) | 2 1/4 in (57.15 mm) | $4,150.00 | $235.00 |

** Slot depth refers to distance between lifting bars and castings*

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |




*Nesting Slab PN 12860*




*Cast Iron*





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# Cast Iron

## Grip-handle Weights

| ASTM Class 6 | | | | | | | | Optional |
|---|---|---|---|---|---|---|---|---|
| Weight | Part # | Width | Length | Height | Slot Width | Slot Depth* | Price | Accredited Certificate |
| 1,000 kg | **12801** | 20 1/2 in (520.7 mm) | 20 1/2 in (520.7 mm) | 22 in (558.8 mm) | 3 1/2 in (88.9 mm) | 2 3/4 in (69.85 mm) | $7,250.00 | $310.00 |
| 500 kg | **12797** | 15 1/8 in (384.2 mm) | 15 1/8 in (384.2 mm) | 20 3/4 in (527 mm) | 2 1/2 in (63.5 mm) | 2 in (50.8 mm) | $2,678.00 | $235.00 |
| 250 kg | **12782** | 11 1/2 in (292.1 mm) | 12 1/2 in (317.5 mm) | 17 1/2 in (444.5 mm) | 2 1/2 in (63.5 mm) | 1 7/8 in (47.6 mm) | $1,680.00 | $235.00 |
| 200 kg | **12793** | 11 1/2 in (292.1 mm) | 12 in (304.8 mm) | 14 1/4 in (362 mm) | 2 1/2 in (63.5 mm) | 1 7/8 in (47.6 mm) | $1,442.00 | $235.00 |
| 100 kg | **12817** | 9 7/8 in (250.8 mm) | 9 7/8 in (250.8 mm) | 11 in (279.4 mm) | 2 1/2 in (63.5 mm) | 2 in (50.8 mm) | $1,329.00 | $235.00 |
| 50 kg | **12803** | 9 7/32 in (234.2 mm) | 7 in (177.8 mm) | 8 13/16 in (223.8 mm) | 4 15/32 in (113.5 mm) | 1 29/32 in (48.4 mm) | $577.00 | $130.00 |
| 35 kg | **12805** | 7 7/8 in (200.0 mm) | 5 1/2 in (139.7 mm) | 9 15/32 in (252.4 mm) | 4 15/32 in (113.5 mm) | 1 1/16 in (27.0 mm) | $412.00 | $130.00 |
| 25 kg | **12775** | 7 21/32 in (194.5 mm) | 5 1/2 in (139.7 mm) | 7 3/32 in (180.2 mm) | 4 7/16 in (112.7 mm) | 1 13/16 in (46.0 mm) | $160.00 | $75.00 |
| 20 kg | **12771** | 7 5/8 in (193.7 mm) | 5 19/32 in (142.1 mm) | 5 29/32 in (150.0 mm) | 4 5/8 in (117.5 mm) | 1 19/32 in (40.5 mm) | $134.00 | $75.00 |
| 10 kg | **12767** | 6 in (152.4 mm) | 4 1/2 in (114.3 mm) | 5 in (127.0 mm) | 3 3/4 in (95.3 mm) | 1 1/16 in (27.0 mm) | $129.00 | $75.00 |

| ASTM Class 7 | | | | | | Optional |
|---|---|---|---|---|---|---|
| Weight | Part # | Width | Length | Height | Price | Accredited Certificate |
| 5 kg | **12786** | 5 15/32 in (138.9 mm) | 3 13/32 in (86.5 mm) | 4 1/8 in (104.8 mm) | $77.00 | $75.00 |
| 2 kg | **12809** | 3 31/32 in (100.8 mm) | 2 9/16 in (65.1 mm) | 2 13/16 in (71.4 mm) | $64.00 | $75.00 |
| 1 kg | **12813** | 3 in (76.2 mm) | 2 1/8 in (54.0 mm) | 1 27/32 in (46.8 mm) | $55.00 | $55.00 |
| 500 g | **12815** | 2 1/2 in (63.5 mm) | 1 5/8 in (41.3 mm) | 1 17/32 in (38.9 mm) | $50.00 | $55.00 |

| OIML Class M1 | | | | | | | | Optional |
|---|---|---|---|---|---|---|---|---|
| Weight | Part # | Width | Length | Height | Slot Width | Slot Depth* | Price | Accredited Certificate |
| 500 kg | **156304** | 15 1/8 in (384.2 mm) | 15 1/8 in (384.2 mm) | 20 3/4 in (527 mm) | 2 1/2 in (63.5 mm) | 2 in (50.8 mm) | $2,678.00 | $235.00 |
| 250 kg | **156305** | 11 1/2 in (292.1 mm) | 12 in (304.8 mm) | 17 1/2 in (444.5 mm) | 2 1/2 in (63.5 mm) | 1 7/8 in (47.6 mm) | $1,680.00 | $235.00 |
| 100 kg | **156306** | 9.87 in (250.7 mm) | 9.87 in (250.7 mm) | 11 in (279.4 mm) | 2 1/2 in (63.5 mm) | 2 in (50.8 mm) | $1,329.00 | $235.00 |
| 50 kg | **105417** | 9 7/32 in (234.2 mm) | 7 in (177.8 mm) | 8 13/16 in (223.8 mm) | 4 15/32 in (113.5 mm) | 1 29/32 in (48.4 mm) | $577.00 | $130.00 |
| 20 kg | **105416** | 7 5/8 in (193.7 mm) | 5 19/32 in (142.1 mm) | 5 29/32 in (150.0 mm) | 4 5/8 in (117.5 mm) | 1 19/32 in (40.5 mm) | $134.00 | $75.00 |
| 10 kg | **105415** | 6 in (152.4 mm) | 4 1/2 in (114.3 mm) | 5 in (127.0 mm) | 3 3/4 in (95.3 mm) | 1 1/16 in (27.0 mm) | $129.00 | $75.00 |
| 5 kg | **105414** | 5 15/32 in (138.9 mm) | 3 13/32 in (86.5 mm) | 4 1/8 in (104.8 mm) | - | - | $77.00 | $75.00 |

** Slot depth refers to distance between lifting bars and castings*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |




*Cast Iron*





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# Cast Iron

## Slotted Interlocking and Hanger Weights

| Slotted ASTM Class 6 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Slot Width** | **Diameter** | **Height** | **Price** | **Accredited Certificate** |
| 100 lb | **40828** | 1 in (25.4 mm) | 17 in (431.8 mm) | 1 15/16 in (49.2 mm) | $595.00 | $105.00 |
| 50 lb | **12856** | 3/4 in (9 mm) | 10 5/8 in (269.9 mm) | 2 11/16 in (68.3 mm) | $232.00 | $80.00 |
| 20 lb | **12831** | 13/16 in (20.6 mm) | 8 1/8 in (206.4 mm) | 1 31/32 in (50.0 mm) | $100.00 | $80.00 |
| **Slotted ASTM Class 7** | | | | | | **Optional** |
| **Weight** | **Part #** | **Slot Width** | **Diameter** | **Height** | **Price** | **Accredited Certificate** |
| 10 lb | **12826** | 13/16 in (20.6 mm) | 6 1/8 in (155.6 mm) | 1 11/16 in (42.9 mm) | $85.00 | $80.00 |
| 5 lb | **12852** | 11/16 in (17.5 mm) | 5 1/8 in (130.2 mm) | 1 5/16 in (33.3 mm) | $69.00 | $80.00 |
| 2 lb | **12848** | 9/16 in (14.3 mm) | 5 in (127.0 mm) | 23/32 in (18.3 mm) | $59.00 | $65.00 |
| 1 lb | **12842** | 9/16 in (14.3 mm) | 5 in (127.0 mm) | 15/32 in (11.9 mm) | $59.00 | $65.00 |
| 1/2 lb | **12837** | 9/16 in (14.3 mm) | 3 3/4 in (95.3 mm) | 7/16 in (11.1 mm) | $46.00 | $40.00 |

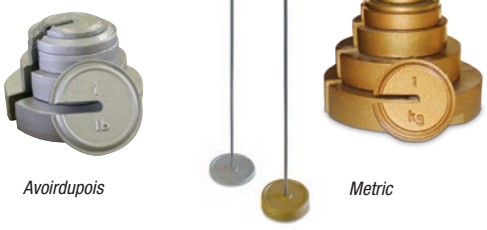
| Hanger ASTM Class 7 | | | | | | | Optional |
|---|---|---|---|---|---|---|---|
| **Weight** | **Capacity** | **Part #** | **Total Length** | **Operational Length** | **Diameter** | **Price** | **Accredited Certificate** |
| 5 lb* | 500 lb | **12846** | 37 1/4 in (946.2 mm) | 35 in (889.0 mm) | 4 in (101.6 mm) | $273.00 | $80.00 |
| 2 lb | 200 lb | **12841** | 21 13/32 in (543.7 mm) | 19 in (482.6 mm) | 3 3/4 in (95.3 mm) | $137.00 | $65.00 |
| 2 lb | 200 lb | **12835** | 10 1/4 in (260.4 mm) | 8 in (203.2 mm) | 3 3/4 in (95.3 mm) | $131.00 | $65.00 |
| 1 lb | 200 lb | **12830** | 21 29/32 in (556.4 mm) | 20 7/32 in (513.6 mm) | 3 3/4 in (95.3 mm) | $117.00 | $65.00 |
| 1 lb | 200 lb | **12825** | 9 5/16 in (236.5 mm) | 7 9/16 in (192.1 mm) | 3 3/4 in (95.3 mm) | $95.00 | $65.00 |

** Stainless steel*

| Slotted ASTM Class 6 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Slot Width** | **Diameter** | **Height** | **Price** | **Accredited Certificate** |
| 20 kg | **12819** | 21/32 in (16.7 mm) | 10 5/16 in (261.9 mm) | 2 11/32 in (59.5 mm) | $232.00 | $75.00 |
| 10 kg | **12811** | 3/4 in (19.1 mm) | 8 3/16 in (208.0 mm) | 2 1/16 in (52.4 mm) | $129.00 | $75.00 |
| **Slotted ASTM Class 7** | | | | | | **Optional** |
| **Weight** | **Part #** | **Slot Width** | **Diameter** | **Height** | **Price** | **Accredited Certificate** |
| 5 kg | **12807** | 13/16 in (20.6 mm) | 6 3/16 in (157.2 mm) | 1 13/16 in (46.0 mm) | $117.00 | $75.00 |
| 2 kg | **12799** | 9/16 in (14.3 mm) | 5 1/8 in (130.2 mm) | 1 3/16 in (30.2 mm) | $69.00 | $75.00 |
| 1 kg | **12795** | 9/16 in (14.3 mm) | 5 1/16 in (128.6 mm) | 3/4 in (19.1 mm) | $60.00 | $55.00 |
| 500 g | **12791** | 9/16 in (14.3 mm) | 5 in (127.0 mm) | 15/32 in (11.9 mm) | $58.00 | $55.00 |
| 200 g | **12780** | 5/8 in (15.9 mm) | 3 21/32 in (92.9 mm) | 7/16 in (11.1 mm) | $47.00 | $55.00 |

| Hanger ASTM Class 7 | | | | | | | Optional |
|---|---|---|---|---|---|---|---|
| **Weight** | **Capacity** | **Part #** | **Total Length** | **Operational Length** | **Diameter** | **Price** | **Accredited Certificate** |
| 2 kg | 250 kg | **12788** | 37 1/4 in (946.2 mm) | 35 in (889.0 mm) | 4 in (101.6 mm) | $273.00 | $75.00 |
| 1 kg | 100 kg | **12784** | 21 13/32 in (543.7 mm) | 19 in (482.6 mm) | 3 3/4 in (95.3 mm) | $134.00 | $55.00 |
| 1 kg | 100 kg | **12777** | 10 1/4 in (260.4 mm) | 8 in (203.2 mm) | 3 3/4 in (95.3 mm) | $134.00 | $55.00 |
| 500 g | 100 kg | **12773** | 21 29/32 in (556.4 mm) | 20 7/32 in (513.6 mm) | 3 3/4 in (95.3 mm) | $117.00 | $55.00 |
| 500 g | 100 kg | **12769** | 9 5/16 in (236.5 mm) | 7 9/16 in (192.1 mm) | 3 3/4 in (95.3 mm) | $105.00 | $55.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |



*Avoirdupois*

*Metric*





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# Cast Iron

Counterpoise and Hanger Weights

| Round ASTM Class 7 | | | | | |
|---|---|---|---|---|---|
| **Ratio** | **Weight** | **Part #** | **Diameter** | **Fairbanks Part #** | **Price** |
| 1 lb - 100 lb | 50 lb x 1/2 lb | **10154** | 2 7/8 in (73.0 mm) | PA48 | $37.00 |
| 1 lb - 100 lb | 100 lb x 1 lb | **10156** | 4 1/16 in (103.2 mm) | PA32 | $42.00 |
| 1 lb - 100 lb | 200 lb x 2 lb | **10158** | 4 1/16 in (103.2 mm) | PA21 | $37.00 |
| 1 lb - 100 lb | 500 lb x 5 lb | **10160** | 3 3/4 in (95.3 mm) | PB52 | $42.00 |
| 1/2 lb - 100 lb | 100 lb x 1/2 lb | **10152** | 2 7/8 in (73.0 mm) | PBC32 | $37.00 |
| 1/2 lb - 100 lb | 200 lb x 1 lb | **10168** | 3 17/32 in (89.7 mm) | PBC21 | $47.00 |
| 1/2 lb - 100 lb | 300 lb x 1 1/2 lb | **10189** | 3 1/2 in (88.9 mm) | - | $37.00 |
| 1/2 lb- 100 lb | 500 lb x 2 1/2 lb | **10170** | 3 1/2 in (88.9 mm) | PBC52 | $53.00 |
| 1/2 lb- 100 lb | 1,000 lb x 5 lb | **10196** | 3 7/8 in (98.4 mm) | - | $63.00 |

| Hangers - Round and Square | | | | | |
|---|---|---|---|---|---|
| **Approx. Weight** | **Part #** | **Total Length** | **Operational Length** | **Diameter** | **Price** |
| **Round** | | | | | |
| 7 oz | **10188** | 7 1/16 in (179.4 mm) | 5 1/8 in (130.2 mm) | 3 31/32 in (100.8 mm) | $68.00 |
| 10 oz (Fairbanks® only) | **10184** | 7 1/16 in (179.4 mm) | 5 1/8 in (130.2 mm) | 3 31/32 in (100.8 mm) | $68.00 |
| 12 oz | **10185** | 7 1/16 in (179.4 mm) | 5 1/8 in (130.2 mm) | 3 31/32 in (100.8 mm) | $68.00 |
| 17 oz | **10186** | 7 1/16 in (179.4 mm) | 5 1/8 in (130.2 mm) | 4 in (101.6 mm) | $68.00 |
| 21 oz | **10187** | 7 1/16 in (179.4 mm) | 5 1/8 in (130.2 mm) | 4 in (101.6 mm) | $68.00 |
| **Square** | | | | | |
| 21 oz | **10193** | 8 7/16 in (214.3 mm) | 6 5/16 in (160.3 mm) | - | $68.00 |

| Hexagon ASTM Class 7 | | | |
|---|---|---|---|
| **Weight** | **Part #** | **Diameter** | **Price** |
| 10 kg x 100 g | **10266** | 2 in (50.8 mm) | $42.00 |
| 25 kg x 250 g | **10268** | 2 13/16 in (71.4 mm) | $42.00 |
| 50 kg x 500 g | **10270** | 4 in (101.6 mm) | $46.00 |
| 100 kg x 1 kg | **10272** | 4 in (101.6 mm) | $50.00 |
| 200 kg x 2 kg | **10274** | 4 in (101.6 mm) | $55.00 |

| Square ASTM Class 7 | | | | | |
|---|---|---|---|---|---|
| **Ratio** | **Weight** | **Part #** | **Diameter** | **Fairbanks Part #** | **Price** |
| 1 lb - 100 lb | 50 lb x 1/2 lb | **10191** | 2 5/16 in (58.7 mm) | 1A2349 | $42.00 |
| 1 lb - 100 lb | 100 lb x 1 lb | **10162** | 3 1/2 in (88.9 mm) | 1A1469 | $42.00 |
| 1 lb - 100 lb | 200 lb x 2 lb | **10164** | 3 1/2 in (88.9 mm) | 1A1470 | $47.00 |
| 1 lb - 100 lb | 500 lb x 5 lb | **10166** | 3 1/2 in (88.9 mm) | 1A1471 | $79.00 |



*Fairbanks Round Individual and Hanger*



*Fairbanks Square Individual and Hanger*





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# Avoirdupois

## Counterpoise and Hanger Weights

| Round ASTM Class 7 | | | | | |
|---|---|---|---|---|---|
| **Ratio** | **Weight** | **Part #** | **Diameter** | **Howe™ Part #** | **Price** |
| - | 50 lb x 1/2 lb | **10367** | 3 in (76.2 mm) | 42071831 | $47.00 |
| - | 100 lb x 1 lb | **10369** | 2 7/8 in (73.0 mm) | 42076188 | $47.00 |
| - | 200 lb x 2 lb | **10371** | 2 31/32 in (75.4 mm) | 42076189 | $47.00 |
| - | 300 lb x 3 lb | **10373** | 2 31/32 in (75.4 mm) | 42076190 | $47.00 |
| - | 500 lb x 5 lb | **10385** | 3 1/8 in (79.4 mm) | 42078947 | $47.00 |
| **For Counting Scales** | | | | | |
| 99 - 1 | 100 lb x 1 1/99 lb | **10387** | 3 in (76.2 mm) | 40810545 | $53.00 |
| 99 - 1 | 500 lb x 5 5/99 lb | **10391** | 3 3/32 in (78.6 mm) | 42111567 | $53.00 |
| 8 - 1 | 10 lb x 1 1/4 lb | **10427** | 2 15/16 in (74.6 mm) | - | $53.00 |
| 8 -1 | 5 lb x 5/8 lb | **10425** | 2 15/16 in (74.6 mm) | - | $51.00 |
| 8 - 1 | 2 lb x 1/4 lb | **10411** | 2 7/32 in (56.4 mm) | - | $47.00 |
| 50 - 1 | 80 lb x 1 3/5 lb | **10421** | 3 in (76.2 mm) | - | $47.00 |
| 50 - 1 | 40 lb x 4/5 lb | **10419** | 2 13/16 in (71.4 mm) | - | $47.00 |
| 50 - 1 | 20 lb x 2/5 lb | **10417** | 2 31/32 in (75.4 mm) | - | $53.00 |
| 50 - 1 | 10 lb x 1/5 lb | **10415** | 2 in (50.8 mm) | - | $47.00 |
| 50 - 1 | 5 lb x 1/10 lb | **10413** | 1 1/2 in (38.1 mm) | - | $47.00 |
| 64 - 1 | 100 lb x 1 9/16 lb or 25 oz | **10409** | 3 in (76.2 mm) | 42111417 | $47.00 |
| 61 - 1 | 50 lb x 28/32 lb or 12 1/2 oz | **10407** | 2 15/16 in (74.6 mm) | 40807082 | $47.00 |
| 64 - 1 | 25 lb x 25/64 lb or 6 1/4 oz | **10405** | 2 31/32 in (75.4 mm) | 40807092 | $47.00 |
| 64 -1 | 10 lb x 5/32 lb or 2 1/2 oz | **10404** | 1 1/2 in (38.1 mm) | 42111454 | $47.00 |

| Round Hanger ASTM Class 7 | | | | | |
|---|---|---|---|---|---|
| **Approx. Weight** | **Part #** | **Total Length** | **Operational Length** | **Diameter** | **Price** |
| 7 oz | **10382** | 8 1/4 in (209.6 mm) | 6 3/16 in (157.2 mm) | 2 31/32 in (75.4) | $63.00 |
| 10 oz | **10379** | 8 1/4 in (209.6 mm) | 6 3/16 in (157.2 mm) | 2 31/32 in (75.4) | $63.00 |
| 12 oz | **10380** | 8 1/4 in (209.6 mm) | 6 3/16 in (157.2 mm) | 2 31/32 in (75.4) | $105.00 |
| 16 oz | **10381** | 8 1/4 in (209.6 mm) | 6 3/16 in (157.2 mm) | 2 31/32 in (75.4) | $105.00 |

| Triangle ASTM Class 7 | | | |
|---|---|---|---|
| **Approx. Weight** | **Part #** | **Toledo® Part #** | **Price** |
| 100 lb x 1 lb | **11417** | 49868 | $37.00 |
| 200 lb x 2 lb | **11419** | 49869 | $42.00 |
| 500 lb x 5 lb | **11421** | 49870 | $63.00 |

| Triangle Hanger | | | | | |
|---|---|---|---|---|---|
| **Approx. Weight** | **Part #** | **Total Length** | **Operational Length** | **Toledo Part #** | **Price** |
| 14 oz | **11423** | 8 1/4 in (209.6 mm) | 6 3/16 in (157.2 mm) | 49857 | $63.00 |



*Fairbanks Round Individual and Hanger*



*Fairbanks Square Individual and Hanger*





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# STAINLESS STEEL

**ASTM** Class 5



### Applications:

- Field standards for Class III scales or balances
- Testing non-classified scale equipment
- Tolerance checking

### Styles Available:

- Cylindrical
- Grip handle

### Product Configuration:

- Individual weight
- Weight set: weights, case and handling equipment
- Weight set configuration: 5-2-2-1 or 5-3-2-1 Example: (1) 50 g, (2) 20 g and (1)10 g or (1) 50 g, (1) 30 g, (1) 20 g and (1)10 g
- Appropriate lifting device, tweezer and/or glove

### Features:

- Stainless steel weights designed to meet NIST Handbook 44 and 105-1
- ASTM Class 5 tolerances
- Sealing cavity for adjustment for most weights
- Serial numbers may be stamped on weights (optional)
- Nominal value marked on weights



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# Metric Individual Weights

| Grip-handle Class 5 | | | | | Optional |
|---|---|---|---|---|---|
| Weight | Part # | Height | Diameter | Price | Accredited Certificate |
| 30 kg | **12572** | 9 3/16 in (233.3 mm) | 6 in (152.4 mm) | $1,100.00 | $80.00 |
| 25 kg | **12571** | 7 3/16 in (182.5 mm) | 6 in (152.4 mm) | $875.00 | $75.00 |
| 20 kg | **12569** | 6 7/16 in (163.5 mm) | 6 in (152.4 mm) | $757.00 | $75.00 |
| 10 kg | **12567** | 5 3/16 in (131.7 mm) | 5 in (127.0 mm) | $535.00 | $75.00 |
| 8 kg | **12565** | 4 13/32 in (111.9 mm) | 5 in (127.0 mm) | $500.00 | $75.00 |
| 5 kg | **12564** | 3 7/32 in (81.8 mm) | 5 in (127.0 mm) | $289.00 | $75.00 |

| Cylindrical Class 5 | | | | | Optional |
|---|---|---|---|---|---|
| Weight | Part # | Height | Diameter | Price | Accredited Certificate |
| 5 kg | **12521** | 4 13/32 in (111.9 mm) | 3 1/2 in (88.9 mm) | $211.00 | $75.00 |
| 4 kg | **12519** | 3 3/16 in (96.7 mm) | 3 3/8 in (85.0 mm) | $196.00 | $75.00 |
| 3 kg | **12517** | 3 23/32 in (94.5 mm) | 3 in (76.2 mm) | $175.00 | $75.00 |
| 2 kg | **12515** | 3 5/16 in (83.7 mm) | 2 5/8 in (66.2 mm) | $129.00 | $75.00 |
| 1 kg | **12513** | 2 11/16 in (68.2 mm) | 2 in (50.4 mm) | $74.00 | $55.00 |
| 500 g | **12511** | 2 1/8 in (53.8 mm) | 1 5/8 in (40.9 mm) | $69.00 | $55.00 |
| 400 g | **12531** | 2 1/32 in (51.6 mm) | 1 1/2 in (38.1 mm) | $63.00 | $55.00 |
| 300 g | **12529** | 1 13/16 in (45.9 mm) | 1 3/8 in (34.5 mm) | $63.00 | $55.00 |
| 200 g | **12509** | 1 21/32 in (42.1 mm) | 1 3/16 in (30.2 mm) | $53.00 | $55.00 |
| 150 g | **12549** | 1 9/32 in (32.5 mm) | 1 3/16 in (30.2 mm) | $47.00 | $55.00 |
| 100 g | **12507** | 1 3/16 in (30.2 mm) | 1 in (25.4 mm) | $44.00 | $40.00 |
| 50 g | **12527** | 31/32 in (24.6 mm) | 3/4 in (19.1 mm) | $40.00 | $40.00 |
| 30 g | **12525** | 11/16 in (16.7 mm) | 11/16 in (17.4 mm) | $37.00 | $40.00 |
| 20 g | **12523** | 5/8 in (15.9 mm) | 19/32 in (15.1 mm) | $37.00 | $40.00 |
| 10 g | **12505** | 19/32 in (15.1 mm) | 7/16 in (11.1 mm) | $37.00 | $40.00 |
| 5 g | **12503** | 13/32 in (10.3 mm) | 3/8 in (9.5 mm) | $32.00 | $40.00 |
| 3 g | **12533** | 3/8 in (9.3 mm) | 5/16 in (7.5 mm) | $32.00 | $40.00 |
| 2 g | **12501** | 5/16 in (7.9 mm) | 9/32 in (7.1 mm) | $32.00 | $40.00 |
| 1 g | **12499** | 1/4 in (6.4 mm) | 7/32 in (5.6 mm) | $32.00 | $40.00 |

| Optional Cases | |
|---|---|
| Part # | Price |
| **197476** | $195.00 |
| **197475** | $195.00 |
| **190273** | $33.00 |
| **190268** | $33.00 |
| **190259** | $33.00 |
| **189712** | $33.00 |
| **189709** | $33.00 |
| **189643** | $33.00 |
| **194185** | $32.00 |
| **189633** | $33.00 |
| **189567** | $36.00 |
| **189506** | $36.00 |
| **190126** | $33.00 |
| **189482** | $36.00 |
| **189475** | $36.00 |
| **194048** | $35.00 |
| **194030** | $35.00 |
| - | - |
| - | - |

| Milligram Class 5 | | | Optional |
|---|---|---|---|
| Weight | Part # | Price | Accredited Certificate |
| 500 mg | **12913** | $20.00 | $40.00 |
| 300 mg | **12914** | $20.00 | $40.00 |
| 200 mg | **12915** | $20.00 | $40.00 |
| 100 mg | **12916** | $20.00 | $40.00 |
| 50 mg | **12917** | $20.00 | $40.00 |
| 30 mg | **12918** | $20.00 | $40.00 |
| 20 mg | **12919** | $20.00 | $40.00 |
| 10 mg | **12920** | $20.00 | $40.00 |
| 5 mg | **12921** | $20.00 | $40.00 |
| 3 mg | **12922** | $20.00 | $40.00 |
| 2 mg | **12923** | $20.00 | $40.00 |
| 1 mg | **12924** | $20.00 | $40.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |



*Grip-handle*



*Cylindrical*



*Leaf*





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# Avoirdupois Individual Weights

| Grip Handle Class 5 | | | | | Optional |
|---|---|---|---|---|---|
| Weight | Part# | Height | Diameter | Price | Accredited Certificate |
| 50 lb | **12677** | 6 21/32 in (169.1 mm) | 6 in (127.0 mm) | $825.00 | $80.00 |
| 30 lb | **12676** | 6 11/16 in (169.0 mm) | 5 in (126.4 mm) | $625.00 | $80.00 |
| 25 lb | **12675** | 5 3/4 in (145.9 mm) | 5 in (126.4 mm) | $525.00 | $80.00 |
| 20 lb | **12674** | 4 27/32 in (123.0 mm) | 5 in (127.0 mm) | $485.00 | $80.00 |
| 10 lb | **12673** | 3 1/32 in (77.0 mm) | 5 in (127.0 mm) | $289.00 | $80.00 |

| Cylindrical Class 5 | | | | | Optional |
|---|---|---|---|---|---|
| Weight | Part # | Height | Diameter | Price | Accredited Certificate |
| 10 lb | **12606** | 4 1/16 in (103.0 mm) | 3 1/2 in (88.1 mm) | $200.00 | $80.00 |
| 5 lb | **12604** | 3 11/16 in (93.2 mm) | 2 5/8 in (66.2 mm) | $129.00 | $80.00 |
| 4 lb | **12602** | 3 1/16 in (77.0 mm) | 2 5/8 in (66.2 mm) | $122.00 | $80.00 |
| 3 lb | **12600** | 2 15/16 in (74.4 mm) | 2 1/4 in (56.8 mm) | $117.00 | $80.00 |
| 2 lb | **12598** | 2 15/32 in (62.7 mm) | 2 in (50.8 mm) | $68.00 | $65.00 |
| 1 lb | **12596** | 2 9/32 in (57.9 mm) | 1 1/2 in (38.1 mm) | $58.00 | $65.00 |
| 12 oz | **12626** | 2 1/16 in (51.6 mm) | 1 3/8 in (34.5 mm) | $53.00 | $40.00 |
| 8 oz | **12594** | 1 21/32 in (42.1 mm) | 1 1/4 in (31.8 mm) | $47.00 | $40.00 |
| 4 oz | **12592** | 1 11/32 in (34.1 mm) | 1 in (25.4 mm) | $42.00 | $40.00 |
| 2 oz | **12590** | 15/16 in (23.8 mm) | 13/16 in (20.6 mm) | $40.00 | $40.00 |
| 1 oz | **12587** | 13/16 in (20.2 mm) | 5/8 in (15.5 mm) | $37.00 | $40.00 |
| 1/2 oz | **12584** | 21/32 in (16.7 mm) | 1/2 in (12.7 mm) | $37.00 | $40.00 |
| 1/4 oz | **12581** | 5/8 in (15.9 mm) | 3/8 in (9.6 mm) | $32.00 | $40.00 |
| 1/8 oz | **12578** | 7/16 in (10.8 mm) | 5/16 in (7.5 mm) | $32.00 | $40.00 |
| 1/16 oz | **12575** | 3/8 in (9.6 mm) | 1/4 in (6.4 mm) | $32.00 | $40.00 |
| 1/32 oz | **12608** | 11/32 in (8.7 mm) | 3/16 in (4.8 mm) | $32.00 | $40.00 |
| 0.5 oz | **12647** | 21/32 in (16.7 mm) | 1/2 in (12.7 mm) | $37.00 | $40.00 |
| 0.3 oz | **12645** | 17/32 in (13.5 mm) | 7/16 in (11.1 mm) | $37.00 | $40.00 |
| 0.2 oz | **12643** | 1/2 in (12.8 mm) | 3/8 in (9.1 mm) | $37.00 | $40.00 |
| 0.1 oz | **12641** | 3/8 in (9.0 mm) | 5/16 in (7.5 mm) | $37.00 | $40.00 |
| 0.05 oz | **12639** | 5/16 in (7.4 mm) | 1/4 in (6.0 mm) | $37.00 | $40.00 |
| 0.5 lb | **12624** | 1 21/32 in (42.1 mm) | 1 1/4 in (31.8 mm) | $47.00 | $40.00 |
| 0.3 lb | **12622** | 1 3/16 in (30.2 mm) | 1 1/8 in (28.2 mm) | $47.00 | $40.00 |
| 0.2 lb | **12610** | 1 7/32 in (31.0 mm) | 15/16 in (23.8 mm) | $40.00 | $40.00 |
| 0.1 lb | **12612** | 7/8 in (21.8 mm) | 3/4 in (18.7 mm) | $40.00 | $40.00 |
| 0.05 lb | **12614** | 23/32 in (18.3 mm) | 19/32 in (15.1 mm) | $40.00 | $40.00 |
| 0.03 lb | **12620** | 5/8 in (15.7 mm) | 1/2 in (12.3 mm) | $40.00 | $40.00 |
| 0.02 lb | **12616** | 9/16 in (13.7 mm) | 7/16 in (10.7 mm) | $40.00 | $40.00 |
| 0.01 lb | **12618** | 17/32 in (13.5 mm) | 5/16 in (7.9 mm) | $40.00 | $40.00 |
| 0.005 lb | **198340** | 7/16 in (11.1 mm) | 15/64 in (6.0 mm) | $37.00 | $40.00 |
| 0.003 lb | **198344** | 7/64 in (7.0 mm) | 15/64 in (6.0 mm) | $37.00 | $40.00 |
| 0.002 lb | **198341** | 21/64 in (8.5 mm) | 11/64 in (4.4 mm) | $37.00 | $40.00 |
| 0.001 lb | **198343** | 3/16 in (5.0 mm) | 11/64 in (4.3 mm) | $37.00 | $40.00 |

| Optional Cases | |
|---|---|
| Part # | Price |
| **197473** | $195.00 |
| **190269** | $33.00 |
| **190267** | $33.00 |
| **190263** | $33.00 |
| **190260** | $33.00 |
| **189710** | $33.00 |
| **189636** | $33.00 |
| **189635** | $33.00 |
| **189567** | $36.00 |
| **189565** | $36.00 |
| **189484** | $36.00 |
| **189476** | $36.00 |
| **194054** | $35.00 |
| **194032** | $35.00 |
| **189234** | $36.00 |
| **190126** | $33.00 |
| **189476** | $36.00 |
| **189350** | $36.00 |
| **194054** | $35.00 |
| **194032** | $35.00 |
| **189234** | $36.00 |
| **189635** | $33.00 |
| **189644** | $33.00 |
| **190126** | $33.00 |
| **189506** | $36.00 |
| **190126** | $33.00 |
| **189476** | $36.00 |
| **189350** | $36.00 |
| **194031** | $135.00 |
| **Consult** | Consult |
| **Consult** | Consult |
| **Consult** | Consult |
| **Consult** | Consult |



*Grip-handle*



*Cylindrical*





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# Metric Sets

Range: 5 g and 50 g

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 5 g - 1 mg | **12548** | $170.00 | $240.00 |
| 50 g - 1 mg | **12504** | $211.00 | $475.00 |
| 50 g - 10 mg | **12502** | $196.00 | $380.00 |
| 50 g - 1 g | **12500** | $160.00 | $190.00 |
| (2) 50 g - 1 mg | **12550** | $310.00 | $475.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11510** | $32.00 |
| **11512** | $32.00 |
| **11512** | $32.00 |
| **11512** | $32.00 |
| **11512** | $32.00 |

| Weight Set Contents | | | | |
|---|---|---|---|---|
| **5 g - 1 mg** | **50 g - 1 mg** | **(2) 50 g - 1 mg** | **50 g - 10 mg** | **50 g - 1 g** |
| 1 - 5 g | 1 - 50 g | 2 - 50 g | 1 - 50 g | 1 - 50 g |
| 1 - 3 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 2 - 20 g |
| 1 - 2 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 10 g |
| 1 - 1 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 5 g |
| 1 - 500 mg | 2 - 2 g | 1 - 5 g | 2 - 2 g | 2 - 2 g |
| 1 - 300 mg | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 1 g |
| 1 - 200 mg | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | - |
| 1 - 100 mg | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | - |
| 1 - 50 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | - |
| 1 - 30 mg | 1 - 50 mg | 1 - 300 mg | 1 - 50 mg | - |
| 1 - 20 mg | 2 - 20 mg | 1 - 200 mg | 2 - 20 mg | - |
| 1 - 10 mg | 1 - 10 mg | 1 - 100 mg | 1 - 10 mg | - |
| 1 - 5 mg | 1 - 5 mg | 1 - 50 mg | - | - |
| 1 - 3 mg | 2 - 2 mg | 1 - 30 mg | - | - |
| 1 - 2 mg | 1 - 1 mg | 1 - 20 mg | - | - |
| 1 - 1 mg | - | 1 - 10 mg | - | - |
| - | - | 1 - 5 mg | - | - |
| - | - | 1 - 3 mg | - | - |
| - | - | 1 - 2 mg | - | - |
| - | - | 1 - 1 mg | - | - |
| - | - | - | | - |
| **Piece Count** | | | | |
| 16 | 20 | 21 | 16 | 8 |
| **Total Weight** | | | | |
| 12.221 g | 111.11 g | 172.221 g | 111.1 g | 110.000 g |
| **Part #** | | | | |
| **12548** | **12504** | **12550** | **12502** | **12500** |

| Case Insert* | | |
|---|---|---|
| Size | Part # | Price |
| 50 g - 1 mg | **11517** | $32.00 |
| 50 g - 10 mg | **11517** | $32.00 |
| 50 g - 1 g | **11516** | $32.00 |

** Leaf weight cover not included*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11758** | Leaf weight cover | $37.00 |
| **65640** | Tweezer | $17.00 |
| **25836** | Serial number | $16.00 |
| **152414** | Premium tweezer | $37.00 |





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STAINLESS STEEL - ASTM

# Metric Sets

Range: 100 g

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 100 g - 1 mg | **12510** | $227.00 | $505.00 |
| 100 g - 10 mg | **12508** | $216.00 | $395.00 |
| 100 g - 1 g | **12506** | $196.00 | $215.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11512** | $32.00 |
| **11512** | $32.00 |
| **11512** | $32.00 |

| Weight Set Contents | | |
|---|---|---|
| **100 g - 1 mg** | **100 g - 10 mg** | **100 g - 1 g** |
| 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 2 - 20 g | 2 - 20 g | 2 - 20 g |
| 1 - 10 g | 1 - 10 g | 1 - 10 g |
| 1 - 5 g | 1 - 5 g | 1 - 5 g |
| 2 - 2 g | 2 - 2 g | 2 - 2 g |
| 1 - 1 g | 1 - 1 g | 1 - 1 g |
| 1 - 500 mg | 1 - 500 mg | - |
| 2 - 200 mg | 2 - 200 mg | - |
| 1 - 100 mg | 1 - 100 mg | - |
| 1 - 50 mg | 1 - 50 mg | - |
| 2 - 20 mg | 2 - 20 mg | - |
| 1 - 10 mg | 1 - 10 mg | - |
| 1 - 5 mg | - | - |
| 2 - 2 mg | - | - |
| 1 - 1 mg | - | - |
| **Piece Count** | | |
| 21 | 17 | 9 |
| **Total Weight** | | |
| 211.11 g | 211.19 g | 210.000 g |
| **Part #** | | |
| **12510** | **12508** | **12506** |

| Case Insert* | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11519** | $32.00 |
| 100 g - 10 mg | **11519** | $32.00 |
| 100 g - 1 g | **11518** | $32.00 |

** Leaf weight cover not included*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11758** | Leaf weight cover | $37.00 |
| **65640** | Tweezer | $17.00 |
| **25836** | Serial number | $16.00 |
| **152414** | Premium tweezer | $37.00 |



*PN 12510*
*100 g to 1 mg*



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# Metric Sets

Range: 500 g

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 500 g - 1 mg | **12516** | $417.00 | $605.00 |
| 500 g - 10 mg | **12514** | $375.00 | $505.00 |
| 500 g - 1 g | **12512** | $330.00 | $310.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11520** | $63.00 |
| **11520** | $63.00 |
| **11520** | $63.00 |

| Weight Set Contents | | |
|---|---|---|
| **500 g - 1 mg** | **500 g - 10 mg** | **500 g - 1 g** |
| 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 2 - 200 g | 2 - 200 g | 2 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 2 - 20 g | 2 - 20 g | 2 - 20 g |
| 1 - 10 g | 1 - 10 g | 1 - 10 g |
| 1 - 5 g | 1 - 5 g | 1 - 5 g |
| 2 - 2 g | 2 - 2 g | 2 - 2 g |
| 1 - 1 g | 1 - 1 g | 1 - 1 g |
| 1 - 500 mg | 1 - 500 mg | - |
| 2 - 200 mg | 2 - 200 mg | - |
| 1 - 100 mg | 1 - 100 mg | - |
| 1 - 50 mg | 1 - 50 mg | - |
| 2 - 20 mg | 2 - 20 mg | - |
| 1 - 10 mg | 1 - 10 mg | - |
| 1 - 5 mg | - | - |
| 2 - 2 mg | - | - |
| 1 - 1 mg | - | - |
| **Piece Count** | | |
| 24 | 20 | 12 |
| **Total Weight** | | |
| 1.11111 kg | 1.1111 kg | 1.110 kg |
| **Part #** | | |
| **12516** | **12514** | **12512** |

| Secondary Leatherette Case | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11512** | $32.00 |
| 100 g - 10 mg | **11512** | $32.00 |
| 100 g - 1 g | **11512** | $32.00 |

| Case Insert* | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11519** | $32.00 |
| 100 g - 10 mg | **11519** | $32.00 |
| 100 g - 1 g | **11518** | $32.00 |

** Leaf weight cover not included*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11758** | Leaf weight cover | $37.00 |
| **65640** | Tweezer | $17.00 |
| **25836** | Serial number | $16.00 |
| **152414** | Premium tweezer | $37.00 |



*PN 12512*
*500 g to 1 g*



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STAINLESS STEEL - ASTM

# Metric Sets

Range: 1 kg

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 1 kg - 1 mg | **12522** | $465.00 | $630.00 |
| 1 kg - 10 mg | **12520** | $458.00 | $540.00 |
| 1 kg - 1 g | **12518** | $427.00 | $350.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11521** | $63.00 |
| **11521** | $63.00 |
| **11521** | $63.00 |

| Weight Set Contents | | |
|---|---|---|
| **1 kg - 1 mg** | **1 kg - 10 mg** | **1 kg - 1 g** |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 2 - 200 g | 2 - 200 g | 2 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 2 - 20 g | 2 - 20 g | 2 - 20 g |
| 1 - 10 g | 1 - 10 g | 1 - 10 g |
| 1 - 5 g | 1 - 5 g | 1 - 5 g |
| 2 - 2 g | 2 - 2 g | 2 - 2 g |
| 1 - 1 g | 1 - 1 g | 1 - 1 g |
| 1 - 500 mg | 1 - 500 mg | - |
| 2 - 200 mg | 2 - 200 mg | - |
| 1 - 100 mg | 1 - 100 mg | - |
| 1 - 50 mg | 1 - 50 mg | - |
| 2 - 20 mg | 2 - 20 mg | - |
| 1 - 10 mg | 1 - 10 mg | - |
| 1 - 5 mg | - | - |
| 2 - 2 mg | - | - |
| 1 - 1 mg | - | - |
| **Piece Count** | | |
| 25 | 21 | 13 |
| **Total Weight** | | |
| 2.11111 kg | 2.1111 kg | 2.11 kg |
| **Part #** | | |
| **12522** | **12520** | **12518** |

| Secondary Leatherette Case | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11512** | $32.00 |
| 100 g - 10 mg | **11512** | $32.00 |
| 100 g - 1 g | **11512** | $32.00 |

| Case Insert* | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11519** | $32.00 |
| 100 g - 10 mg | **11519** | $32.00 |
| 100 g - 1 g | **11518** | $32.00 |

** Leaf weight cover not included*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11758** | Leaf weight cover | $37.00 |
| **65640** | Tweezer | $17.00 |
| **25836** | Serial number | $16.00 |
| **152414** | Premium tweezer | $37.00 |



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# Metric Sets

Range: 2 kg

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 2 kg - 1 mg | **12528** | $567.00 | $640.00 |
| (5) 2 kg - 1 mg | **12534** | $895.00 | $818.00 |
| 2 kg - 10 mg | **12526** | $535.00 | $590.00 |
| (5) 2 kg - 10 mg | **12532** | $890.00 | $730.00 |
| 2 kg -1 g | **12524** | $495.00 | $395.00 |
| (5) 2 kg - 1 g | **12530** | $825.00 | $565.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11522** | $153.00 |
| **11523** | $211.00 |
| **11522** | $153.00 |
| **11523** | $211.00 |
| **11522** | $153.00 |
| **11523** | $211.00 |

| Weight Set Contents | | | | | |
|---|---|---|---|---|---|
| **2 kg - 1 mg** | **(5) 2 kg - 1 mg** | **2 kg - 10 mg** | **(5) 2 kg - 10 mg** | **2 kg - 1 g** | **(5) 2 kg - 1 g** |
| 1 - 2 kg | 5 - 2 kg | 1 - 2 kg | 5 - 2 kg | 1 - 2 kg | 5 - 2 kg |
| 1 - 1 kg | - | 1 - 1 kg | - | 1 - 1 kg | - |
| 1 - 500 g | 5 - 500 g | 1 - 500 g | 5 - 500 g | 1 - 500 g | 5 - 500 g |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g |
| 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | - | - |
| 2 - 200 mg | 2 - 200 mg | 2 - 200 mg | 2 - 200 mg | - | - |
| 1 - 100 mg | 1 - 100 mg | 1 - 100 mg | 1 - 100 mg | - | - |
| 1 - 50 mg | 1 - 50 mg | 1 - 50 mg | 1 - 50 mg | - | - |
| 2 - 20 mg | 2 - 20 mg | 2 - 20 mg | 2 - 20 mg | - | - |
| 1 - 10 mg | 1 - 10 mg | 1 - 10 mg | 1 - 10 mg | - | - |
| 1 - 5 mg | 1 - 5 mg | - | - | - | - |
| 2 - 2 mg | 2 - 2 mg | - | - | - | - |
| 1 - 1 mg | 1 - 1 mg | - | - | - | - |
| **Piece Count** | | | | | |
| 26 | 33 | 22 | 29 | 14 | 21 |
| **Total Weight** | | | | | |
| 4.11111 kg | 13.11111 kg | 4.1111 kg | 13.1111 kg | 4.110 kg | 13.11kg |
| **Part #** | | | | | |
| **12528** | **12534** | **12526** | **12532** | **12524** | **12530** |

| Secondary Leatherette Case | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11512** | $32.00 |
| 100 g - 10 mg | **11512** | $32.00 |
| 100 g - 1 g | **11512** | $32.00 |

| Case Insert* | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11519** | $32.00 |
| 100 g - 10 mg | **11519** | $32.00 |
| 100 g - 1 g | **11518** | $32.00 |

** Leaf weight cover not included*



*PN 12528*
*2 kg to 1 mg*





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STAINLESS STEEL - ASTM

# Metric Sets

Range: 5 kg

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 5 kg - 1 mg | **12537** | $762.00 | $780.00 |
| (2) 5 kg - 1 mg | **12542** | $1,128.00 | $800.00 |
| 5 kg - 10 mg | **12536** | $705.00 | $680.00 |
| (2) 5 kg - 10 mg | **12539** | $985.00 | $710.00 |
| 5 kg - 1 g | **12535** | $670.00 | $490.00 |
| (2) 5 kg - 1 g | **12538** | $965.00 | $520.00 |
| (3) 5 kg | **12562** | $850.00 | $220.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11524** | $211.00 |
| **11525** | $211.00 |
| **11524** | $211.00 |
| **11525** | $211.00 |
| **11524** | $211.00 |
| **11525** | $211.00 |
| **11558** | $211.00 |

| Weight Set Contents | | | | | | |
|---|---|---|---|---|---|---|
| 5 kg - 1 mg | (2) 5 kg - 1 mg | 5 kg - 10 mg | (2) 5 kg - 10 mg | 5 kg - 1 g | (2) 5 kg - 1 g | (3) 5 kg |
| 1 - 5 kg | 2 - 5 kg | 1 - 5 kg | 2 - 5 kg | 1 - 5 kg | 2 - 5 kg | 3 - 5 kg |
| 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | - |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | - |
| 1 - 500 g | 5 - 500 g | 1 - 500 g | 5 - 500 g | 1 - 500 g | 5 - 500 g | - |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | - |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | - |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | - |
| 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | - | - | - |
| 2 - 200 mg | 2 - 200 mg | 2 - 200 mg | 2 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 100 mg | 1 - 100 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | 1 - 50 mg | 1 - 50 mg | 1 - 50 mg | - | - | - |
| 2 - 20 mg | 2 - 20 mg | 2 - 20 mg | 2 - 20 mg | - | - | - |
| 1 - 10 mg | 1 - 10 mg | 1 - 10 mg | 1 - 10 mg | - | - | - |
| 1 - 5 mg | 1 - 5 mg | - | - | - | - | - |
| 2 - 2 mg | 2 - 2 mg | - | - | - | - | - |
| 1 - 1 mg | 1 - 1 mg | - | - | - | - | - |
| **Piece Count** | | | | | | |
| 28 | 33 | 24 | 29 | 16 | 21 | 3 |
| **Total Weight** | | | | | | |
| 11.11 kg | 18.11 kg | 11.1111 kg | 18.1111 kg | 11.11 kg | 18.110 kg | 15 kg |
| **Part #** | | | | | | |
| **12537** | **12542** | **12536** | **12539** | **12535** | **12538** | **12562** |

| Secondary Leatherette Case | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11512** | $32.00 |
| 100 g - 10 mg | **11512** | $32.00 |
| 100 g - 1 g | **11512** | $32.00 |

| Case Insert* | | |
|---|---|---|
| Size | Part # | Price |
| 100 g - 1 mg | **11519** | $32.00 |
| 100 g - 10 mg | **11519** | $32.00 |
| 100 g - 1 g | **11518** | $32.00 |

** Leaf weight cover not included*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11758** | Leaf weight cover | $37.00 |
| **65640** | Tweezer | $17.00 |
| **25836** | Serial number | $16.00 |
| **152414** | Premium tweezer | $37.00 |




*PN 12542*
*(2) 5 kg to 1 mg*



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# Avoirdupois Set

Range: 4 oz

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 4 oz - 1/32 oz | **12623** | $180.00 | $215.00 |
| 4 oz - 0.05 oz | **12625** | $200.00 | $195.00 |
| 0.2 lb - 0.001 lb | **12576** | $190.00 | $260.00 |
| 0.3 lb - 0.001 lb | **12654** | $433.00 | $260.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11510** | $32.00 |
| **11510** | $32.00 |
| **11512** | $32.00 |
| **200180** | $35.00 |

| Weight Set Contents | | | |
|---|---|---|---|
| **4 oz - 1/32 oz** | **4 oz - 0.05 oz** | **0.2 lb - 0.001 lb** | **0.3 lb - 0.001 lb** |
| 1 - 4 oz | 1 - 4 oz | 2 - 0.2 lb | 1 - 0.3 lb |
| 1 - 2 oz | 1 - 2 oz | 1 - 0.1 lb | 1 - 0.2 lb |
| 1 - 1 oz | 1 - 1 oz | 1 - 0.05 lb | 1 - 0.1 lb |
| 1 - 1/2 oz | 1 - 0.5 oz | 2 - 0.02 lb | 1 - 0.05 lb |
| 1 - 1/4 oz | 2 - 0.2 oz | 1 - 0.01 lb | 1 - 0.03 lb |
| 1 - 1/8 oz | 1 - 0.1 oz | 1 - 0.005 lb | 1 - 0.02 lb |
| 1 - 1/16 oz | 1 - 0.05 oz | 2 - 0.002 lb | 1 - 0.01 lb |
| 2 - 1/32 oz | - | 1 - 0.001 lb | 1 - 0.005 lb |
| - | - | - | 1 - 0.003 lb |
| - | - | - | 1 - 0.002 lb |
| - | - | - | 1 - 0.001 lb |
| **Piece Count** | | | |
| 9 | 8 | 11 | 11 |
| **Total Weight** | | | |
| 1/2 lb | 1 lb 0.05 oz | 0.61 lb | 0.722 lb |
| **Part #** | | | |
| **12623** | **12625** | **12576** | **12654** |

| Case Insert | | |
|---|---|---|
| Size | Part # | Price |
| 4 oz - 1/32 oz | **11552** | $22.00 |
| 4 oz - 0.05 oz | **11553** | $22.00 |
| 0.2 oz - 0.001 lb | **200160** | $35.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |





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STAINLESS STEEL - ASTM

# Avoirdupois Set

Range: 1 lb

| Class 5 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 1 lb - 1/32 oz (fractional) | **12591** | $299.00 | $280.00 | **11544** | $68.00 |
| 1 lb - 0.001 lb (decimal) | **12593** | $345.00 | $330.00 | **11544** | $68.00 |
| 1 lb - 0.05 oz (combination) | **12595** | $315.00 | $255.00 | **11544** | $68.00 |

| Weight Set Contents | | |
|---|---|---|
| **1 lb - 1/32 oz** | **1 lb - 0.001 lb** | **1 lb - 0.05 oz** |
| 1 - 1 lb | 1 - 1 lb | 1 - 1 lb |
| 1 - 8 oz | 1 - 0.5 lb | 1 - 8 oz |
| 1 - 4 oz | 2 - 0.2 lb | 1 - 4 oz |
| 1 - 2 oz | 1 - 0.1 lb | 1 - 2 oz |
| 1 - 1 oz | 1 - 0.05 lb | 1 - 1 oz |
| 1 - 1/2 oz | 2 - 0.02 lb | 1 - 0.5 oz |
| 1 - 1/4 oz | 1 - 0.01 lb | 2 - 0.2 oz |
| 1 - 1/8 oz | 1 - 0.005 lb | 1 - 0.1 oz |
| 1 - 1/16 oz | 2 - 0.002 lb | 1 - 0.05 oz |
| 2 - 1/32 oz | 1 - 0.001 lb | - |
| **Piece Count** | | |
| 11 | 13 | 10 |
| **Total Weight** | | |
| 2 lb | 2.1110 lb | 1.990625 lb |
| **Part #** | | |
| **12591** | **12593** | **12595** |

| Secondary Case | | |
|---|---|---|
| Size | Part # | Price |
| 1 lb - 1/32 oz | **11510** | $32.00 |
| 1 lb - 0.001 lb | **11512** | $32.00 |
| 1 lb - 0.05 oz | **11510** | $32.00 |

| Case Insert | | |
|---|---|---|
| Size | Part # | Price |
| 1 lb - 1/32 oz | **11552** | $22.00 |
| 1 lb - 0.001 lb | **11553** | $22.00 |
| 1 lb - 0.05 oz | **200160** | $35.00 |



*PN 12591*
*1 lb to 1/32 oz*



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# Avoirdupois Set

Range: 2 lb

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 2 lb - 1/32 oz (fractional) | **12597** | $390.00 | $325.00 |
| (2) 2 lb - 1/32 oz (fractional) | **12603** | $505.00 | $365.00 |
| 2 lb - 0.001 lb (decimal) | **12599** | $400.00 | $365.00 |
| (2) 2 lb - 0.001 lb (decimal) | **12605** | $505.00 | $415.00 |
| 2 lb - 0.05 oz (decimal) | **12601** | $427.00 | $270.00 |
| (2) 2 lb - 0.05 oz (decimal) | **12607** | $505.00 | $310.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11547** | $68.00 |
| **11548** | $68.00 |
| **11547** | $68.00 |
| **11548** | $68.00 |
| **11547** | $68.00 |
| **11548** | $68.00 |

| Weight Set Contents | | | | | |
|---|---|---|---|---|---|
| **2 lb - 1/32 oz** | **(2) 2 lb - 1/32 oz** | **2 lb - 0.001 lb** | **(2) 2 lb - 0.001 lb** | **2 lb - 0.05 oz** | **(2) 2 lb - 0.05 oz** |
| 1 - 2 lb | 2 - 2 lb | 1 - 2 lb | 2 - 2 lb | 1 - 2 lb | 2 - 2 lb |
| 1 - 1 lb | 1 - 1 lb | 1 - 1 lb | 1 - 1 lb | 1 - 1 lb | 1 - 1 lb |
| 1 - 8 oz | 1 - 8 oz | 1 - 0.5 lb | 1 - 0.5 lb | 1 - 8 oz | 1 - 8 oz |
| 1 - 4 oz | 1 - 4 oz | 2 - 0.2 lb | 2 - 0.2 lb | 1 - 4 oz | 1 - 4 oz |
| 1 - 2 oz | 1 - 2 oz | 1 - 0.1 lb | 1 - 0.1 lb | 1 - 2 oz | 1 - 2 oz |
| 1 - 1 oz | 1 - 1 oz | 1 - 0.05 lb | 1 - 0.05 lb | 1 - 1 oz | 1 - 1 oz |
| 1 - 1/2 oz | 1 - 1/2 oz | 2 - 0.02 lb | 2 - 0.02 lb | 1 - 0.5 oz | 1 - 0.5 oz |
| 1 - 1/4 oz | 1 - 1/4 oz | 1 - 0.01 lb | 1 - 0.01 lb | 2 - 0.2 oz | 2 - 0.2 oz |
| 1 - 1/8 oz | 1 - 1/8 oz | 1 - 0.005 lb | 1 - 0.005 lb | 1 - 0.1 oz | 1 - 0.1 oz |
| 1 - 1/16 oz | 1 - 1/16 oz | 2 - 0.002 lb | 2 - 0.002 lb | 1 - 0.05 oz | 1 - 0.05 oz |
| 2 - 1/32 oz | 2 - 1/32 oz | 1 - 0.001 lb | 1 - 0.001 lb | - | - |
| **Piece Count** | | | | | |
| 12 | 13 | 14 | 15 | 11 | 12 |
| **Total Weight** | | | | | |
| 4 lb | 6 lb | 4.108 lb | 6.1100 lb | 4.7875 lb | 6 lb 0.05 oz |
| **Part #** | | | | | |
| **12597** | **12603** | **12599** | **12605** | **12601** | **12607** |

| Secondary Case | | |
|---|---|---|
| Size | Part # | Price |
| 4 oz - 1/32 oz | **11510** | $32.00 |
| 0.2 lb - 0.001 lb | **11512** | $32.00 |
| 4 oz - 0.05 oz | **11510** | $32.00 |

| Case Insert | | |
|---|---|---|
| Size | Part # | Price |
| 2 lb - 1/32 oz | **11552** | $22.00 |
| 2 lb - 0.001 lb | **11553** | $22.00 |
| 2 lb - 0.05 oz | **200160** | $35.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |





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STAINLESS STEEL - ASTM

# Avoirdupois Set

Range: 5 lb

| Class 5 | | | | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 5 lb - 1/32 oz | **12615** | $495.00 | $410.00 | **11550** | $206.00 |
| 5 lb - 1/32 oz | **12579** | $1,015.00 | $700.00 | **11542** | $206.00 |
| 5 lb - 0.001 lb | **12617** | $500.00 | $460.00 | **11550** | $206.00 |
| 5 lb - 0.001 lb (combination) | **12582** | $1,040.00 | $755.00 | **11542** | $206.00 |
| 5 lb - 0.001 lb | **12634** | $1,040.00 | $755.00 | **11542** | $206.00 |
| 5 lb - 0.05 oz (combination) | **12619** | $510.00 | $385.00 | **11550** | $206.00 |
| (5) 5 lb - 0.05 oz (combination) | **12636** | $979.00 | $650.00 | **11542** | $206.00 |
| 5 lb - 1 gr (21 lb fractional U.S. Postal Service) | **12627** | $1,035.00 | $790.00 | **11554** | $206.00 |
| 5 lb - 1 gr (31 lb 55 gr) | **12661** | $1,185.00 | $920.00 | **11570** | $206.00 |
| 5 lb x (6) (30 lb) | **12640** | $917.00 | $470.00 | **11559** | $206.00 |

| Secondary Case | | |
|---|---|---|
| Size | Part # | Price |
| 5 lb - 1/32 oz | **11510** | $32.00 |
| (5) 5 lb - 1/32 oz | **11510** | $32.00 |
| 5 lb - 0.001 lb | **11512** | $32.00 |
| (5) 5 lb - 0.001 lb (combination) | **11510 and 11512** | $32.00 |
| (5) 5 lb - 0.001 lb | **11512** | $32.00 |
| 5 lb - 0.05 oz | **11510** | $32.00 |
| (5) 5 lb - 0.05 oz | **11510** | $32.00 |
| 5 lb - 1 gr | **11510** | $32.00 |

| Case Insert | | |
|---|---|---|
| Size | Part # | Price |
| 5 lb - 1/32 oz | **11552** | $22.00 |
| (5) 5 lb - 1/32 oz | **11552** | $22.00 |
| 5 lb - 0.001 lb | **200160** | $35.00 |
| (5) 5 lb - 0.001 lb (combination) | **200160** | $35.00 |
| (5) 5 lb - 0.001 lb | **200160** | $35.00 |
| 5 lb - 0.05 oz | **11553** | $22.00 |
| (5) 5 lb - 0.05 oz | **11553** | $22.00 |
| 5 lb - 1 gr | **11552** | $22.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **25836*** | Serial number | $16.00 |




*PN 12582*
*5 lb to 0.001 lb*



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# Avoirdupois Set

Range: 5 lb

| Weight Set Contents | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **5 lb - 1/32 oz** | **5 lb - 1/32 oz** | **5 lb - 0.001 lb** | **5 lb - 0.001 lb** | **5 lb - 0.001 lb** | **5 lb - 0.05 oz** | **(5) 5 lb - 0.05 oz** | **5 lb - 1 gr** | **5 lb - 1 gr** | **(6) 5 lb** |
| 1 - 5 lb | 5 - 5 lb | 1 - 5 lb | 5 - 5 lb | 5 - 5 lb | 1 - 5 lb | 5 - 5 lb | 3 - 5 lb | 5 - 5 lb | 6 - 5 lb |
| 2 - 2 lb | 5 - 1 lb | 2 - 2 lb | 5 - 1 lb | 5 - 1 lb | 2 - 2 lb | 5 - 1 lb | 5 - 1 lb | 5 - 1 lb | - |
| 1 - 1 lb | 1 - 8 oz | 1 - 1 lb | 1 - 8 oz | 1 - 0.5 lb | 1 - 1 lb | 1 - 8 oz | 1 - 8 oz | 1 - 8 oz | - |
| 1 - 8 oz | 1 - 4 oz | 1 - 0.5 lb | 1 - 4 oz | 2 - 0.2 lb | 1 - 8 oz | 1 - 4 oz | 1 - 4 oz | 1 - 4 oz | - |
| 1 - 4 oz | 1 - 2 oz | 2 - 0.2 lb | 2 - 0.2 lb | 1 - 0.1 lb | 1 - 4 oz | 1 - 2 oz | 1 - 2 oz | 1 - 2 oz | - |
| 1 - 2 oz | 1 - 1 oz | 1 - 0.1 lb | 1 - 2 oz | 1 - 0.05 lb | 1 - 2 oz | 1 - 1 oz | 1 - 1 oz | 1 - 1 oz | - |
| 1 - 1 oz | 1 - 1/2 oz | 1 - 0.05 lb | 1 - 0.1 lb | 2 - 0.02 lb | 1 - 1 oz | 1 - 0.5 oz | 1 - 1/2 oz | 1 - 1/2 oz | - |
| 1 - 1/2 oz | 1 - 1/4 oz | 2 - 0.02 lb | 1 - 1 oz | 1 - 0.01 lb | 1 - 0.5 oz | 2 - 0.20 oz | 1 - 1/4 oz | 1 - 1/4 oz | - |
| 1 - 1/4 oz | 1 - 1/8 oz | 1 - 0.01 lb | 1 - 0.05 lb | 1 - 0.005 lb | 2 - 0.20 oz | 1 - 0.05 oz | 1 - 1/8 oz | 1 - 1/8 oz | - |
| 1 - 1/8 oz | 1 - 1/16 oz | 1 - 0.005 lb | 1 - 1/2 oz | 2 - 0.002 lb | 1 - 0.1 oz | - | 1 - 1/16 oz | 1 - 1/16 oz | - |
| 1 - 1/16 oz | 2 - 1/32 oz | 2 - 0.002 lb | 2 - 0.02 lb | 1 - 0.001 lb | 1 - 0.05 oz | - | 2 - 1/32 oz | 2 - 1/32 oz | - |
| 2 - 1/32 oz | - | 1 - 0.001 lb | 1 - 1/4 oz | - | - | - | 2 - 10 gr | 1 - 20 gr | - |
| - | - | - | 1 - 0.01 lb | - | - | - | 2 - 5 gr | 2 - 10 gr | - |
| - | - | - | 1 - 1/8 oz | - | - | - | 2 - 2 gr | 2 - 5 gr | - |
| - | - | - | 1 - 0.005 lb | - | - | - | 1 - 1 gr | 2 - 2 gr | - |
| - | - | - | 1 - 1/16 oz | - | - | - | - | 1 - 1 gr | - |
| - | - | - | 2 - 0.002 lb | - | - | - | - | - | - |
| - | - | - | 2 - 1/32 oz | - | - | - | - | - | - |
| - | - | - | 1 - 0.001 lb | - | - | - | - | - | - |
| **Piece Count** | | | | | | | | | |
| 14 | 20 | 16 | 31 | 22 | 13 | 18 | 25 | 28 | 6 |
| **Total Weight** | | | | | | | | | |
| 11 lb | 31 lb | 11.11 lb | 31.61 lb | 31.11 lb | 11 lb 0.05 oz | 31 lb 0.05 oz | 21 lb 55 gr | 31 lb 55 gr | 30 lb |
| **Part #** | | | | | | | | | |
| **12615** | **12579** | **12617** | **12582** | **12634** | **12619** | **12636** | **12627** | **12661** | **12640** |





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STAINLESS STEEL - ASTM

# Avoirdupois Set

Range: 10lb

| Class 5 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| (3) 10 lb | **12638** | $790.00 | $235.00 |
| 10 lb - 1/32 oz | **12609** | $725.00 | $465.00 |
| 10 lb - 0.001 lb | **12611** | $710.00 | $510.00 |
| 10 lb - 0.05 oz (21 lb x 0.05 oz) | **12613** | $767.00 | $415.00 |
| 10 lb - 1/4 oz | **12573** | $1,125.00 | $475.00 |
| 10 lb - 1/32 oz | **12642** | $1,030.00 | $465.00 |
| 10 lb - 0.001 lb | **12588** | $1,235.00 | $780.00 |
| 10 lb - 0.001 lb | **12644** | $979.00 | $510.00 |
| 10 lb - 0.001 lb (combination) | **12648** | $1,170.00 | $555.00 |
| 10 lb - 0.05 oz (combination) | **12646** | $1,118.00 | $415.00 |
| 10 lb - 1/32 oz | **12628** | $1,340.00 | $755.00 |
| 10 lb - 0.001 lb | **12621** | $1,468.00 | $800.00 |
| 10 lb - 0.05 oz (combination) | **12632** | $1,495.00 | $725.00 |
| 10 lb - 0.001 lb (51.61 lb combination) | **12650** | $1,510.00 | $800.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11558** | $211.00 |
| **11549** | $206.00 |
| **11549** | $206.00 |
| **11549** | $206.00 |
| **11540** | $206.00 |
| **11562** | $206.00 |
| **11543** | $206.00 |
| **11562** | $206.00 |
| **11562** | $206.00 |
| **11562** | $206.00 |
| **11555** | $206.00 |
| **11555** | $206.00 |
| **11555** | $206.00 |
| **11563** | $206.00 |

| Secondary Case | | |
|---|---|---|
| Size | Part # | Price |
| 10 lb - 0.001 lb | **11512** | $32.00 |
| 10 lb - 1/32 oz | **11510** | $32.00 |

| Case Insert | | |
|---|---|---|
| Size | Part # | Price |
| 10 lb - 0.001 lb | **200160** | $35.00 |
| 10 lb - 1/32 oz | **11552** | $22.00 |
| 10 lb - 0.05 oz | **11553** | $22.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11758** | Leaf weight cover | $37.00 |
| **65640** | Tweezer | $17.00 |
| **25836** | Serial number | $16.00 |
| **152414** | Premium tweezer | $37.00 |





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# Avoirdupois Set

Range: 10 lb

| Weight Set Contents | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (3) 10 lb | 10 lb - 1/32 oz | 10 lb - 0.001 lb | 10 lb - 0.05 oz | 10 lb - 1/4 oz | 10 lb - 1/32 oz | 10 lb - 0.001 lb | 10 lb - 0.001 lb | 10 lb - 0.001 lb | 10 lb - 0.05 oz | 10 lb - 1/32 oz | 10 lb - 0.001 lb | 10 lb - 0.05 oz | 10 lb - 0.001 lb |
| 3-10 lb | 1 - 10 lb | 1 - 10 lb | 1 - 10 lb | 2 - 10 lb | 2 - 10 lb | 2 - 10 lb | 2 - 10 lb | 2 - 10 lb | 2 - 10 lb | 3 - 10 lb | 3 - 10 lb | 3 - 10 lb | 3 - 10 lb |
| - | 1 - 5 lb | 1 - 5 lb | 1 - 5 lb | 1 - 5 lb | 1 - 5 lb | 1 - 5 lb | 1 - 5 lb | 1 - 5 lb | 1 - 5 lb | 3 - 5 lb | 3 - 5 lb | 3 - 5 lb | 3 - 5 lb |
| - | 2 - 2 lb | 2 - 2 lb | 2 - 2 lb | 5 - 1 lb | 2 - 2 lb | 5 - 1 lb | 2 - 2 lb | 2 - 2 lb | 2 - 2 lb | 5 - 1 lb | 5 - 1lb | 5 - 1 lb | 5 - 1 lb |
| - | 1 - 1 lb | 1 - 1 lb | 1 - 1 lb | 3 - 4 oz | 1 - 1 lb | 3 - 4 oz | 1 - 1 lb | 1 - 1 lb | 1 - 1 lb | 1 - 8 oz | 1 - 0.5 lb | 1 - 8 oz | 1 - 8 oz |
| - | 1 - 8 oz | 1 - 0.5 lb | 1 - 8 oz | 3 - 1 oz | 1 - 8 oz | 2 - 0.2 lb | 1 - 0.5 lb | 1 - 8 oz | 1 - 8 oz | 1 - 4 oz | 2 - 0.2 lb | 1 - 4 oz | 1 - 4 oz |
| - | 1 - 4 oz | 2 - 0.2 lb | 1 - 4 oz | 2 - 1/2 oz | 1 - 4 oz | 1 - 0.1 lb | 2 - 0.2 lb | 1 - 4 oz | 1 - 4 oz | 1 - 2 oz | 1 - 0.1 lb | 1 - 2 oz | 2 - 0.2 lb |
| - | 1 - 2 oz | 1 - 0.1 lb | 1 - 2 oz | 2 - 1/4 oz | 1 - 2 oz | 3 - 1 oz | 1 - 0.1 lb | 1 - 2 oz | 1 - 2 oz | 1 - 1 oz | 1 - 0.05 lb | 1 - 1 oz | 1 - 2 oz |
| - | 1 - 1 oz | 1 - 0.05 lb | 1 - 1 oz | - | 1 - 1 oz | 1 - 0.05 lb | 1 - 0.05 lb | 1 - 1 oz | 1 - 1 oz | 1 - 1/2 oz | 2 - 0.02 lb | 1 - 0.5 oz | 1 - 0.1 lb |
| - | 1 - 1/2 oz | 2 - 0.02 lb | 1 - 0.5 oz | - | 1 - 1/2 oz | 2 - 1/2 oz | 2 - 0.02 lb | 1 - 1/2 oz | 1 - 0.5 oz | 1 - 1/4 oz | 1 - 0.01 lb | 2 - 0.20 oz | 1 - 1 oz |
| - | 1 - 1/4 oz | 1 - 0.01 lb | 1 - 0.2 oz | - | 1 - 1/4 oz | 2 - 0.02 lb | 1 - 0.01 lb | 1 - 1/4 oz | 2 - 0.2 oz | 1 - 1/8 oz | 1 - 0.005 lb | 1 - 0.1 oz | 1 - 0.05 lb |
| - | 1 - 1/8 oz | 1 - 0.005 lb | 1 - 0.1 oz | - | 1 - 1/8 oz | 2 - 1/4 oz | 1 - 0.005 lb | 1 - 1/8 oz | 1 - 0.1 oz | 1 - 1/16 oz | 2 - 0.002 lb | 1 - 0.05 oz | 1 - 1/2 oz |
| - | 1 - 1/16 oz | 2 - 0.002 lb | 1 - 0.05 oz | - | 1 - 1/16 oz | 1 - 0.01 lb | 2 - 0.002 lb | 1 - 1/16 oz | 1 - 0.05 oz | 2 - 1/32 oz | 1 - 0.001 lb | - | 2 - 0.02 lb |
| - | 2 - 1/32 oz | 1 - 0.001 lb | - | - | 2 - 1/32 oz | 1 - 0.005 lb | 1 - 0.001 lb | 2 - 1/32 oz | - | - | - | - | 1 - 1/4 oz |
| - | - | - | - | - | - | 2 - 0.002 lb | - | 2 - 0.2 lb | - | - | - | - | 1 - 0.01 lb |
| - | - | - | - | - | - | 1 - 0.001 lb | - | 1 - 0.1 lb | - | - | - | - | 1 - 1/8 oz |
| - | - | - | - | - | - | - | - | 1 - 0.05 lb | - | - | - | - | 1 - 0.005 lb |
| - | - | - | - | - | - | - | - | 2 - 0.02 lb | - | - | - | - | 1 - 1/16 oz |
| - | - | - | - | - | - | - | - | 1 - 0.01 lb | - | - | - | - | 2 - 0.002 lb |
| - | - | - | - | - | - | - | - | 1 - 0.005 lb | - | - | - | - | 2 - 1/32 oz |
| - | - | - | - | - | - | - | - | 2 - 0.002 lb | - | - | - | - | 1 - 0.001 lb |
| - | - | - | - | - | - | - | - | 1 - 0.001 lb | - | - | - | - | - |
| **Piece Count** | | | | | | | | | | | | | |
| 3 | 15 | 17 | 13 | 18 | 16 | 29 | 18 | 27 | 15 | 21 | 23 | 20 | 32 |
| **Total Weight** | | | | | | | | | | | | | |
| 30 lb | 21 lb | 21.11 lb | 21 lb 0.05 oz | 31 lb 1/2 oz | 31 lb | 31 lb 1/2 oz | 31.1100 lb | 31 lb | 31 lb 0.05 oz | 51 lb | 51.11 lb | 51 lb 0.05 oz | 51.6100 lb |
| **Part #** | | | | | | | | | | | | | |
| **12638** | **12609** | **12611** | **12613** | **12573** | **12642** | **12588** | **12644** | **12648** | **12646** | **12628** | **12621** | **12632** | **12650** |



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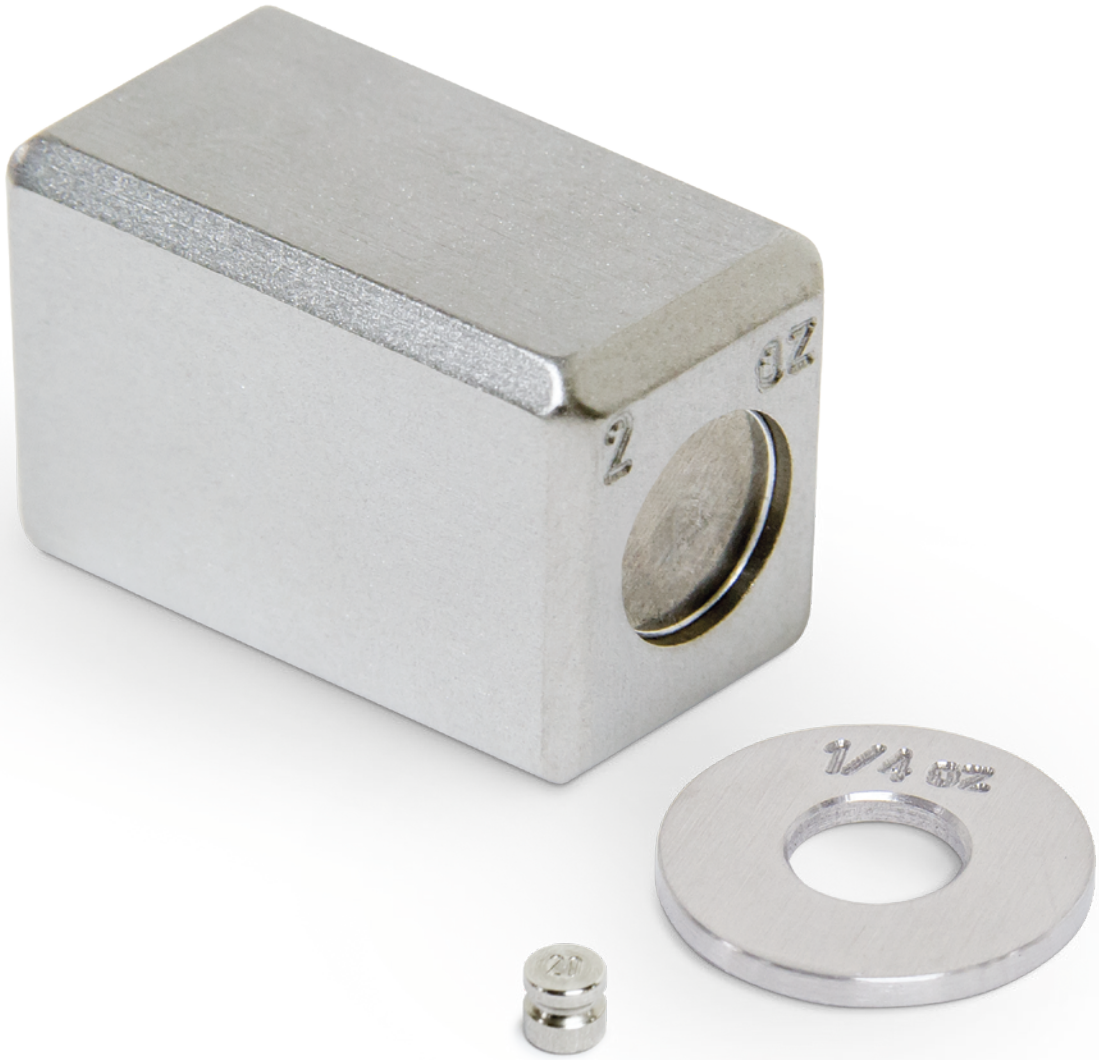


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# SPECIALTY WEIGHTS

Unique weights designed or built for custom applications or tolerances

**ASTM**



## Applications:

- Tolerance test or checking
- Equipment verification in unique units of measurement
- Slotted weights for suspended verification of weight
- Forklift weights for forklift scale calibration

## Styles Available:

- Cube
- Ring
- Lift truck weights
- Hook weights
- Stainless steel slotted weights

## Unique Units of Measures:

- Pennyweight
- Grain
- Troy ounce

## Features:

- Nominal value marked on weights
- Cavity for adjustment
- Cube weight sets designed as sealer's kits for calibration adjustments





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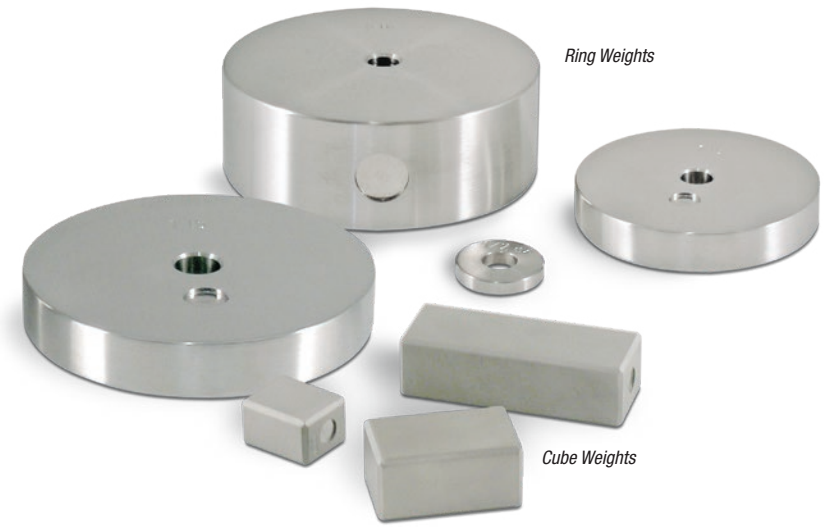
# Metric Cube and Ring Weights; Avoirdupois Ring Weights

| Cube Class 5 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Width** | **Length** | **Height** | **Price** | **Accredited Certificate** |
| 2 lb | **12649** | 2.4 in (61 mm) | 1 in (25.4 mm) | 3 in (76.2 mm) | $139.00 | $65.00 |
| 1 lb | **12651** | 1.2 in (30.5 mm) | 1 in (25.4 mm) | 3 in (76.2 mm) | $129.00 | $65.00 |
| 8 oz | **12653** | 1 9/10 in (48.3 mm) | 1 in (25.4 mm) | 1 in (25.4 mm) | $110.00 | $55.00 |
| 2 oz | **12658** | 0.70 in (17.8 mm) | 0.60 in (15.2 mm) | 1 in (25.4 mm) | $79.00 | $55.00 |
| 4 oz | **12655** | 73/100 in (18.5 mm) | 1 in (25.4 mm) | 309/1000 in (33.3 mm) | $90.00 | $55.00 |
| 1 kg | **12557** | 1 in (25.4 mm) | 3 3/8 in (85.6 mm) | 2 1/2 in (62.8 mm) | $139.00 | $55.00 |
| 500 g | **12552** | 1 in (25.4 mm) | 3 13/32 in (86.5 mm) | 1 1/4 in (31.8 mm) | $110.00 | $55.00 |
| 300 g | **12547** | 2 1/32 in (51.6 mm) | 1 1/4 in (31.8 mm) | 1 in (25.4 mm) | $100.00 | $55.00 |
| 200 g | **12544** | 1 1/4 in (31.0 mm) | 1 3/8 in (34.8 mm) | 1 in (25.4 mm) | $90.00 | $55.00 |
| 100 g | **12541** | 3/4 in (19.1 mm) | 1 7/32 in (31.0 mm) | 1 in (25.4 mm) | $79.00 | $40.00 |

| Ring Class 5 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Outside Dia.** | **Height** | **Inside Dia.** | **Price** | **Accredited Certificate** |
| 500 g | **12566** | 3 in (76.2 mm) | 37/64 in (14.7 mm) | 25/64 in (9.9 mm) | $120.00 | $55.00 |
| 200 g | **12563** | 2 in (50.8 mm) | 17/32 in (13.5 mm) | 25/64 in (9.9 mm) | $95.00 | $55.00 |
| 100 g | **12561** | 1 1/2 in (38.1 mm) | 1/2 in (12.7 mm) | 25/64 in (9.9 mm) | $79.00 | $40.00 |
| 50 g | **12560** | 1 1/2 in (38.1 mm) | 1/4 in (6.4 mm) | 25/64 in (9.9 mm) | $68.00 | $40.00 |
| 25 g | **12559** | 1 in (25.4 mm) | 5/16 in (7.9 mm) | 25/64 in (9.9 mm) | $53.00 | $40.00 |

| Ring Class 5 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Outside Dia.** | **Height** | **Inside Dia.** | **Price** | **Accredited Certificate** |
| 5 lb | **12672** | 4 in (101.6 mm) | 1 7/16 in (36.5 mm) | 25/64 in (9.9 mm) | $105.00 | $80.00 |
| 3 lb | **12671** | 3 in (76.2 mm) | 1 35/64 in (36.3 mm) | 25/64 in (9.9 mm) | $85.00 | $80.00 |
| 2 lb | **12670** | 3 in (76.2 mm) | 1 1/32 in (26.2 mm) | 25/64 in (9.9 mm) | $68.00 | $65.00 |
| 1 lb | **12669** | 3 in (76.2 mm) | 33/64 in (13.1 mm) | 25/64 in (9.9 mm) | $68.00 | $65.00 |
| 8 oz | **12668** | 2 in (50.8 mm) | 39/64 in (15.5 mm) | 25/64 in (9.9 mm) | $33.00 | $40.00 |
| 4 oz | **12667** | 1 1/2 in (38.1 mm) | 9/16 in (14.3 mm) | 25/64 in (9.9 mm) | $33.00 | $40.00 |
| 2 oz | **12666** | 1 1/2 in (38.1 mm) | 9/32 in (7.1 mm) | 25/64 in (9.9 mm) | $33.00 | $40.00 |
| 1 oz | **12665** | 1 in (25.4 mm) | 11/32 in (8.7 mm) | 25/64 in (9.9 mm) | $33.00 | $40.00 |
| 1/2 oz | **12664** | 1 in (25.4 mm) | 11/64 in (4.4 mm) | 25/64 in (9.9 mm) | $63.00 | $40.00 |
| 1/4 oz | **12663** | 1 in (25.4 mm) | 3/32 in (2.4 mm) | 25/64 in (9.9 mm) | $85.00 | $40.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |



*Ring Weights*

*Cube Weights*





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# Troy Cylindrical/Leaf Weights

| Troy Ounce Class 5 | | | | | Optional |
|---|---|---|---|---|---|
| **Weight** | **Part #** | **Height** | **Diameter** | **Price** | **Accredited Certificate** |
| 500 oz t | **12719** | 6 5/16 in (160.3 mm) | 5 in (127.0 mm) | $1,025.00 | $80.00 |
| 200 oz t | **12718** | 3 3/4 in (95.3 mm) | 4 25/32 in (121.4 mm) | $448.00 | $80.00 |
| 100 oz t | **12717** | 3 13/16 in (96.1 mm) | 3 in (75.4 mm) | $268.00 | $80.00 |
| 50 oz t | **12716** | 2 5/8 in (66.7 mm) | 2 21/32 in (67.5 mm) | $155.00 | $80.00 |
| 20 oz t | **12715** | 2 1/4 in (56.6 mm) | 1 3/4 in (44.1 mm) | $79.00 | $65.00 |
| 10 oz t | **12714** | 1 3/8 in (34.9 mm) | 1 29/32 in (48.4 mm) | $64.00 | $40.00 |
| 5 oz t | **12713** | 1 3/16 in (30.2 mm) | 1 13/32 in (35.7 mm) | $64.00 | $40.00 |
| 2 oz t | **12712** | 7/8 in (22.2 mm) | 31/32 in (24.6 mm) | $37.00 | $40.00 |
| 1 oz t | **12711** | 7/8 in (21.2 mm) | 5/8 in (15.9 mm) | $34.00 | $40.00 |
| 1/4 oz t | **12709** | 11/16 in (16.8 mm) | 3/8 in (9.1 mm) | $42.00 | $40.00 |
| 1/8 oz t | **12708** | 5/16 in (7.9 mm) | 15/32 in (11.9 mm) | $42.00 | $40.00 |
| 1/16 oz t | **12707** | 3/8 in (9.1 mm) | 1/4 in (6.2 mm) | $42.00 | $40.00 |
| 1/32 oz t | **12706** | 5/16 in (7.7 mm) | 3/16 in (4.7 mm) | $42.00 | $40.00 |
| 0.5 oz t | **12705** | 1/2 in (12.7 mm) | 23/32 in (18.3 mm) | $42.00 | $40.00 |
| 0.2 oz t | **12704** | 1/2 in (12.6 mm) | 3/8 in (9.3 mm) | $42.00 | $40.00 |
| 0.1 oz t | **12703** | 5/16 in (7.9 mm) | 13/32 in (10.3 mm) | $42.00 | $40.00 |
| 0.05 oz t* | **12702** | 1/4 in (6.4 mm) | 11/32 in (8.7 mm) | $42.00 | $40.00 |
| 0.02 oz t* | **12701** | W x L (0.375 in x 0.287 in) | - | $32.00 | $40.00 |
| 0.01 oz t* | **12700** | W x L (0.312 in x 0.270 in) | - | $32.00 | $40.00 |
| 0.005 oz t* | **12699** | W x L (0.25 in x 0.22 in) | - | $32.00 | $40.00 |

** Leaf weights*



*Troy PN 12711*

*Leaf weights not pictured*





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# Pennyweight Cylindrical and Leaf, and Grain Weights

| Pennyweight Class 5 | | | Optional |
|---|---|---|---|
| **Weight** | **Part #** | **Price** | **Accredited Certificate** |
| 20 dwt | **12698** | $68.00 | $40.00 |
| 10 dwt | **12697** | $68.00 | $40.00 |
| 5 dwt | **12696** | $68.00 | $40.00 |
| 2 dwt | **12695** | $68.00 | $40.00 |
| 1 dwt | **12694** | $68.00 | $40.00 |

| Pennyweight Leaf Class 5 | | | Optional |
|---|---|---|---|
| **Weight** | **Part #** | **Price** | **Accredited Certificate** |
| 0.5 dwt | **12693** | $60.00 | $40.00 |
| 0.2 dwt | **12692** | $60.00 | $40.00 |
| 0.1 dwt | **12691** | $60.00 | $40.00 |

| Grain Class 5 | | | Optional |
|---|---|---|---|
| **Weight** | **Part #** | **Price** | **Accredited Certificate** |
| 1 gr | **12726** | $22.00 | $40.00 |
| 2 gr | **12727** | $25.00 | $40.00 |
| 10 gr | **12733** | $25.00 | $40.00 |
| 20 gr | **12736** | $32.00 | $40.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |




*PN 12693*
*Leaf*





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# Specialty Weights/Cube Weights Sets

| Cube Weight Sets Avoirdupois Class 5 | | | Optional |
|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** |
| 8 oz - 1/16 oz | **12630** | $289.00 | $230.00 |
| (3) 2 lb - 1/16 oz | **12652** | $855.00 | $379.00 |
| (3) 2 lb - .001 lb | **12659** | $965.00 | $457.00 |
| (14) 2 lb - 1/16 oz | **12585** | $1,405.00 | $918.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **11510** | $32.00 |
| **11569** | $190.00 |
| **11569** | $190.00 |
| **40783** | $305.00 |

| Cube Weight Sets Metric | | | Optional |
|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** |
| 300 g - 10 g | **12545** | $295.00 | $280.00 |
| (14) 1 kg - 1 mg | **12553*** | $1,947.00 | $999.00 |
| (3) 1 kg - 1 mg | **12555*** | $1,215.00 | $645.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **11510** | $32.00 |
| **40783** | $305.00 |
| **11569** | $190.00 |

| Weight Set Contents | | | | | | |
|---|---|---|---|---|---|---|
| **300 g - 10 g** | **8 oz - 1/16 oz** | **2 lb - 1/16 oz** | **2 lb - 0.001 lb** | **2 lb - 1/16 oz** | **1 kg - 1 mg** | **1 kg - 1 mg** |
| 1 - 300 g* | 1 - 8 oz* | 3 - 2 lb* | 3 - 2 lb* | 14 - 2 lb* | 14 - 1 kg* | 3 - 1 kg* |
| 1 - 200 g* | 1 - 4 oz* | 1 - 1 lb* | 1 - 1 lb* | 2 - 1 lb* | 2 - 500 g* | 1 - 500 g* |
| 1 - 100 g* | 1 - 2 oz* | 1 - 8 oz* | 1 - 0.3 lb | 1 - 8 oz* | 1 - 300 g* | 1 - 300 g* |
| 1 - 50 g | 1 - 1 oz | 1 - 4 oz* | 1 - 0.2 lb | 1 - 4 oz* | 1 - 200 g* | 1 - 200 g* |
| 1 - 30 g | 1 - 1/2 oz | 1 - 2 oz* | 1 - 0.1 lb | 1 - 2 oz* | 1 - 100 g* | 1 - 100 g* |
| 1 - 20 g | 1 - 1/4 oz | 1 - 1 oz | 1 - 0.05 lb | 1 - 1 oz | 1 - 50 g | 1 - 50 g |
| 1 - 10 g | 1 - 1/8 oz | 1 - 1/2 oz | 1 - 0.03 lb | 1 - 1/2 oz | 1 - 30 g | 1 - 30 g |
| - | 2 - 1/16 oz | 1 - 1/4 oz | 1 - 0.02 lb | 1 - 1/4 oz | 1 - 20 g | 1 - 20 g |
| - | - | 1 - 1/8 oz | 1 - 0.01 lb | 1 - 1/8 oz | 1 - 10 g | 1 - 10 g |
| - | - | 2 - 1/16 oz | 1 - 0.005 lb | 2 - 1/16 oz | 1 - 5 g | 1 - 5 g |
| - | - | - | 1 - 0.003 lb | - | 1 - 3 g | 1 - 3 g |
| - | - | - | 1 - 0.002 lb | - | 1 - 2 g | 1 - 2 g |
| - | - | - | 2 - 001 lb | - | 1 - 1 g | 1 - 1 g |
| - | - | - | - | - | 1 - 500 mg | 1 - 500 mg |
| - | - | - | - | - | 1 - 300 mg | 1 - 300 mg |
| - | - | - | - | - | 1 - 200 mg | 1 - 200 mg |
| - | - | - | - | - | 1 - 100 mg | 1 - 100 mg |
| - | - | - | - | - | 1 - 50 mg | 1 - 50 mg |
| - | - | - | - | - | 1 - 30 mg | 1 - 30 mg |
| - | - | - | - | - | 1 - 20 mg | 1 - 20 mg |
| - | - | - | - | - | 1 - 10 mg | 1 - 10 mg |
| - | - | - | - | - | 1 - 5 mg | 1 - 5 mg |
| - | - | - | - | - | 1 - 3 mg | 1 - 3 mg |
| - | - | - | - | - | 1 - 2 mg | 1 - 2 mg |
| - | - | - | - | - | 1 - 1 mg | 1 - 1 mg |
| **Piece Count** | | | | | | |
| 7 | 9 | 13 | 16 | 25 | 39 | 27 |
| **Total Weight** | | | | | | |
| 710 g | 1 lb | 8 lb | 7.72 lb | 31 lb | 15,722.221 g | 4,222.221 g |
| **Part #** | | | | | | |
| **12545** | **12630** | **12652** | **12659** | **12585** | **12553** | **12555** |

**Cube Weight*

| Case Insert | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 300 g - 10 g | **11526** | $34.00 |
| 5 g - 1 mg | **11527** | $32.00 |
| (2) 50 g - 1 mg | **11528** | $34.00 |
| 1 kg - 1 mg | **11526** | $34.00 |
| (3) 1 kg - 1 mg | **11526** | $34.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11758** | Leaf weight cover | $37.00 |
| **65640** | Tweezer | $17.00 |
| **25836** | Serial number | $16.00 |
| **152414** | Premium tweezer | $37.00 |





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# Avoirdupois and Metric Individual Hook Weights

| Hook Weights Metric Class 6 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Diameter** | **Hanging Height** | **Opening Diameter** | **Price** | **Accredited Certificate** |
| 25 kg | **12720** | 5 31/32 in (151.6 mm) | 9 3/16 in (233.4 mm) | 1/4 in (6.4 mm) | $805.00 | $75.00 |
| 20 kg | **12725** | 5 31/32 in (151.6 mm) | 8 3/8 in (212.7 mm) | 1/4 in (6.4 mm) | $790.00 | $75.00 |
| 10 kg | **12732** | 4 in (101.6 mm) | 9 1/16 in (230.2 mm) | 1/4 in (6.4 mm) | $545.00 | $75.00 |
| 5 kg | **12735** | 3 3/4 in (95.3 mm) | 6 11/32 in (161.1 mm) | 1/4 in (6.4 mm) | $268.00 | $75.00 |
| 4 kg | **161608** | 3 1/2 in (89 mm) | 6.12 in (155 mm) | 1/4 in (6.4 mm) | $263.00 | $75.00 |
| 3 kg | **96403** | 2 5/8 in (66.7 mm) | 5 1/16 in (128.6 mm) | 1/4 in (6.4 mm) | $252.00 | $75.00 |
| 2 kg | **12739** | 2 5/8 in (66.8 mm) | 5 17/32 in (135.7 mm) | 1/4 in (6.4 mm) | $190.00 | $75.00 |
| 1 kg | **12744** | 2 in (50.8 mm) | 5 3/8 in (136.5 mm) | 1/4 in (6.4 mm) | $105.00 | $55.00 |
| 500 g | **12747** | 1 5/8 in (41.3 mm) | 4 1/2 in (114.3 mm) | 5/32 in (4.0 mm) | $89.00 | $55.00 |
| 300 g | **96404** | 1 1/4 in (31.8 mm) | 4 1/2 in (114.3 mm) | 5/32 in (4.0 mm) | $89.00 | $55.00 |
| 200 g | **12748** | 1 1/8 in (28.6 mm) | 3 in (76.2 mm) | 3/32 in (2.4 mm) | $89.00 | $55.00 |
| 100 g | **12749** | 1 in (25.4 mm) | 2 3/8 in (60.3 mm) | 3/32 in (2.4 mm) | $79.00 | $40.00 |
| 50 g | **12750** | 3/4 in (19.1 mm) | 2 1/4 in (57.2 mm) | 3/32 in (2.4 mm) | $79.00 | $40.00 |
| 30 g | **96405** | 5/8 in (15.9 mm) | 2 1/8 in (54.0 mm) | 3/32 in (2.4 mm) | $79.00 | $40.00 |
| 20 g | **12751** | 5/8 in (15.9 mm) | 2 1/8 in (54.0 mm) | 3/32 in (2.4 mm) | $79.00 | $40.00 |
| 10 g | **12754** | 1/2 in (12.7 mm) | 2 in (50.8 mm) | 3/32 in (2.4 mm) | $58.00 | $40.00 |
| **Hook (Only) Weight** | | | | | | |
| 5 g | **12757** | 1/8 in (3.2 mm) | 2 5/32 in (54.8 mm) | 3/16 in (4.7 mm) | $53.00 | $40.00 |
| 3 g | **96406** | 3/32 in (2.4 mm) | 2.32 in (58.9 mm) | 3/16 in (4.7 mm) | $51.00 | $40.00 |
| 2 g | **12762** | 3/32 in (2.4 mm) | 1 7/32 in (31.0 mm) | 3/16 in (4.7 mm) | $47.00 | $40.00 |
| 1 g | **12766** | 1/16 in (1.6 mm) | 1 21/32 in (42.1 mm) | 3/16 in (4.7 mm) | $47.00 | $40.00 |
| **Hook Weights Avoirdupois Class 6** | | | | | | **Optional** |
| 50 lb | **12894** | 5 31/32 in (151.6 mm) | 9 1/4 in (235.0 mm) | 1/4 in (6.4 mm) | $805.00 | $80.00 |
| 25 lb | **96408** | 4 19/32 in (116.7 mm) | 5 3/4 in (146.1 mm) | 1/4 in (6.4 mm) | $730.00 | $80.00 |
| 20 lb | **12895** | 4 in (101.6 mm) | 9 3/16 in (233.3 mm) | 1/4 in (6.4 mm) | $525.00 | $80.00 |
| 10 lb | **12896** | 3 1/2 in (88.9 mm) | 6 1/4 in (158.8 mm) | 1/4 in (6.4 mm) | $263.00 | $80.00 |
| 5 lb | **12897** | 2 5/8 in (66.6 mm) | 6 1/2 in (165.1 mm) | 1/4 in (6.4 mm) | $180.00 | $80.00 |
| 3 lb | **96409** | 2 1/4 in (57.2 mm) | 4 1/32 in (102.4 mm) | 1/4 in (6.4 mm) | $170.00 | $80.00 |
| 2 lb | **12898** | 2 in (50.8 mm) | 5 in (127.0 mm) | 1/4 in (6.4 mm) | $105.00 | $65.00 |
| 1 lb | **12899** | 1 5/8 in (41.3 mm) | 4 1/2 in (114.3 mm) | 5/32 in (4.0 mm) | $79.00 | $65.00 |
| 0.2 lb | **96410** | 1 in (25.4 mm) | 2 5/16 in (58.7 mm) | 3/32 in (2.4 mm) | $68.00 | $40.00 |
| 0.1 lb | **96411** | 3/4 in (19.1 mm) | 2 5/32 in (54.8 mm) | 3/32 in (2.4 mm) | $68.00 | $40.00 |
| 8 oz | **12900** | 1 1/4 in (31.8 mm) | 4 in (101.6 mm) | 5/32 in (4.0 mm) | $68.00 | $40.00 |
| 4 oz | **12901** | 1 in (25.4 mm) | 2 1/4 in (57.2 mm) | 3/32 in (2.4 mm) | $68.00 | $40.00 |
| 2 oz | **12902** | 13/16 in (20.6 mm) | 2 1/4 in (57.2 mm) | 3/32 in (2.4 mm) | $68.00 | $40.00 |
| 1 oz | **12903** | 5/8 in (15.9 mm) | 2 1/4 in (57.2 mm) | 3/32 in (2.4 mm) | $68.00 | $40.00 |
| 1/2 oz | **12904** | 17/32 in (13.5 mm) | 2 29/32 in (73.8 mm) | 3/32 in (2.4 mm) | $63.00 | $40.00 |
| **Hook (Only) Weight** | | | | | | |
| 1/4 oz | **12905** | 5/32 in (4.0 mm) | 1 13/16 in (46.0 mm) | 3/16 in (4.7 mm) | $47.00 | $40.00 |
| 1/8 oz | **12906** | 1/8 in (3.2 mm) | 1 1/8 in (28.6 mm) | 3/16 in (4.7 mm) | $47.00 | $40.00 |
| 1/16 oz | **12907** | 3/32 in (2.4 mm) | 1 1/4 in (31.8 mm) | 3/16 in (4.7 mm) | $47.00 | $40.00 |
| 1/32 oz | **12908** | 1/16 in (1.6 mm) | 1 13/32 in (35.7 mm) | 3/16 in (4.7 mm) | $47.00 | $40.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |



*Hook (only) Weight (5 g - 1 g) and (1/4-1/32 oz)*



*Hook Weight*





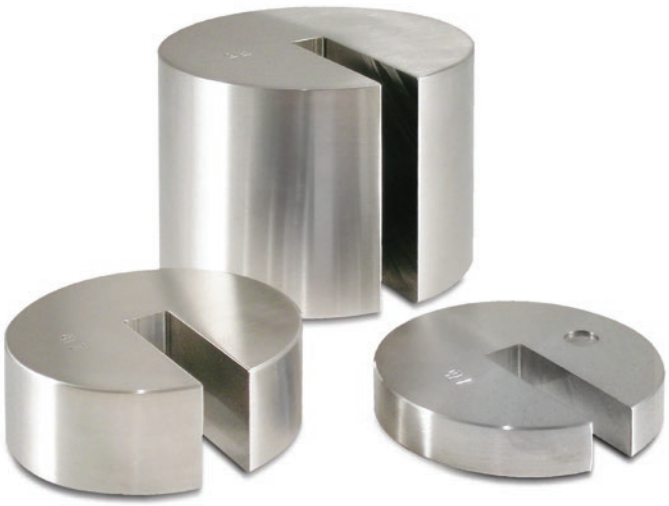
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# Avoirdupois and Metric Individual Hangers and Slotted Weights

| Class 7 Stainless Steel Weight Hanger | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Diameter** | **Length** | **Total Cap** | **Price** | **Accredited Certificate** |
| 5 lb | **12846** | 4 in (101.6 mm) | 37 1/4 in | 500 lb | $273.00 | $80.00 |
| 3 kg | **156937** | 4 in (101.6 mm) | 38 3/16 in | 250 kg | $283.00 | $75.00 |

| Avoirdupois Slotted Class 5 | | | | | | Optional |
|---|---|---|---|---|---|---|
| **Weight** | **Part #** | **Diameter** | **Height** | **Slot Width** | **Price** | **Accredited Certificate** |
| 10 lb | **12589** | 4 in (101.6 mm) | 3 1/8 in (79.4 mm) | 1/2 in (12.7 mm) | $510.00 | $80.00 |
| 5 lb | **12586** | 4 in (101.6 mm) | 1 9/16 in (39.7 mm) | 1/2 in (12.7 mm) | $320.00 | $80.00 |
| 2 lb | **12577** | 3 in (76.2 mm) | 1 9/64 in (29.0 mm) | 1/2 in (12.7 mm) | $200.00 | $65.00 |
| 1 lb | **12574** | 3 in (76.2 mm) | 19/32 in (15.1 mm) | 1/2 in (12.7 mm) | $170.00 | $65.00 |
| 8 oz | **12583** | 2 in (50.8 mm) | 45/64 in (17.9 mm) | 1/2 in (12.7 mm) | $150.00 | $40.00 |
| 4 oz | **12580** | 1 1/2 in (38.1 mm) | 11/16 in (17.5 mm) | 1/2 in (12.7 mm) | $115.00 | $40.00 |
| **Metric Slotted Class 5** | | | | | | **Optional** |
| **Weight** | **Part #** | **Diameter** | **Height** | **Slot Width** | **Price** | **Accredited Certificate** |
| 5 kg | **156931** | 4 in (101.6 mm) | 3 1/8 in (79.4 mm) | 1/2 in (12.7 mm) | $510.00 | $75.00 |
| 2 kg | **156932** | 4 in (101.6 mm) | 1 9/16 in (39.7 mm) | 1/2 in (12.7 mm) | $355.00 | $75.00 |
| 1 kg | **156933** | 3 in (76.2 mm) | 1.27 in (32.3 mm) | 1/2 in (12.7 mm) | $206.00 | $55.00 |
| 500 g | **156934** | 3 in (76.2 mm) | 0.836 in (21.2 mm) | 1/2 in (12.7 mm) | $185.00 | $55.00 |
| 200 g | **156935** | 1.5 in (38.1 mm) | 0.801 in (20.4 mm) | 1/2 in (12.7 mm) | $155.00 | $55.00 |
| 100 g | **156936** | 1.5 in (38.1 mm) | 0.601 in (15.3 mm) | 1/2 in (12.7 mm) | $100.00 | $40.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |



*Slotted*





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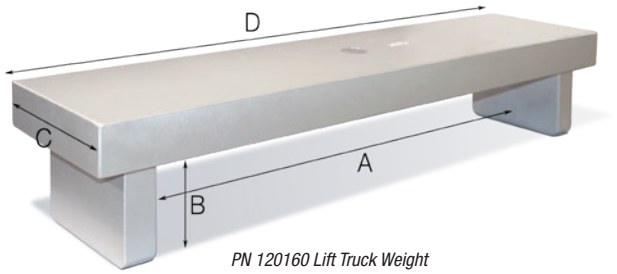
# Clean Room Weight Cart and Lift Truck Weights

| Painted Steel Lift Truck Weights - Meets Class 6 Tolerance | | | Optional |
|---|---|---|---|
| Part # | Description | Price | Traceable Certificate |
| **120160** | 1,000 lb | $2,260.00 | $235.00 |
| **120162** | 2,000 lb | $6,725.00 | $235.00 |

| Stainless Steel Clean Room Weight Cart - Meets ASTM Class 6 Tolerance | | | | Optional |
|---|---|---|---|---|
| Part # | | Description | Price | Traceable Certificate |
| **178045** | 50 kg | 16 x 16 in | $4,775.00 | $235.00 |
| **180033** | 100 kg | 16 x 16 in | $5,375.00 | $235.00 |
| **180624** | 200 kg | 16 x 16 in | $6,675.00 | $235.00 |
| **180625** | 250 kg | 18 x 18 in | $8,475.00 | $235.00 |
| **180034** | 500 kg | 18 x 18 in | $15,095.00 | $235.00 |



*Clean Room, Weigh Cart (Calibration Optional)*




*PN 120160 Lift Truck Weight*

| Dimensions | |
|---|---|
| **PN 120160** | |
| A | 38.25 in |
| B | 6.0 in |
| C | 22.5 in |
| D | 46.25 in |
| **PN 120162** | |
| A | 34.25 in |
| B | 6.0 in |
| C | 22.5 in |
| D | 46.25 in |







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# ELECTRONIC CALIBRATION

**Classes Available:**

**ASTM** Class 1 polished finish

**ASTM** Class 2 to 4 satin finish

**ASTM** Class 1 to 7 manufactured in accordance with ASTM E 617-18 specification and tolerances




**Applications:**

- Calibrating Class I and II balances
- ASTM Class 4, 5 and 6 weights
- Tolerance checking or verification of balances

**Styles Available:**

- Grip handle
- Cylindrical

**Product Configuration:**

- Individual weight
- Individual weight kit: weight, case, and glove or appropriate lifting device

**Features:**

- Nominal value marked on weights
- Serial numbers may be stamped or etched on weights (Class 2 to 4)
- Sealing cavity for adjusting material in 100 g or larger weights
- Density 7.84 g/cm$^3$



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# Metric Kits

| Class 1* | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|
| Weight | Kit Part # | Kit Price | Kit Part # | Kit Price | Kit Part # | Kit Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 5 kg | **12958** | $645.00 | **13076** | $515.00 | **13179** | $490.00 | $145.00 | $80.00 | **197476** | $195.00 |
| 4 kg | **12956** | $567.00 | **13074** | $510.00 | **13177** | $470.00 | $145.00 | $80.00 | **197475** | $195.00 |
| 3 kg | **12954** | $340.00 | **13072** | $273.00 | **13175** | $263.00 | $145.00 | $80.00 | **190273** | $33.00 |
| 2 kg | **12952** | $200.00 | **13070** | $180.00 | **13173** | $180.00 | $145.00 | $80.00 | **190268** | $33.00 |
| 1,500 g | **12985** | $180.00 | **13103** | $180.00 | **13206** | $175.00 | $145.00 | $80.00 | **190270** | $33.00 |
| 1,000 g | **12971** | $165.00 | **13089** | $150.00 | **13192** | $150.00 | $125.00 | $60.00 | **190259** | $33.00 |
| 600 g | **12983** | $175.00 | **13101** | $170.00 | **13204** | $165.00 | $125.00 | $60.00 | **189714** | $33.00 |
| 500 g | **12950** | $137.00 | **13068** | $137.00 | **13171** | $125.00 | $125.00 | $60.00 | **189712** | $33.00 |
| 400 g | **12968** | $137.00 | **13086** | $131.00 | **13189** | $125.00 | $125.00 | $60.00 | **189709** | $33.00 |
| 300 g | **12966** | $125.00 | **13084** | $125.00 | **13187** | $110.00 | $125.00 | $60.00 | **189643** | $33.00 |
| 200 g | **12948** | $115.00 | **13066** | $115.00 | **13169** | $110.00 | $125.00 | $60.00 | **194185** | $32.00 |
| 160 g | **12981** | $120.00 | **13099** | $115.00 | **13202** | $110.00 | $125.00 | $60.00 | **189634** | $33.00 |
| 150 g | **12979** | $105.00 | **13097** | $100.00 | **13200** | $95.00 | $125.00 | $60.00 | **189633** | $33.00 |
| 100 g | **12946** | $95.00 | **13064** | $90.00 | **13167** | $90.00 | $55.00 | $45.00 | **189567** | $36.00 |
| 50 g | **12964** | $85.00 | **13082** | $79.00 | **13185** | $79.00 | $55.00 | $45.00 | **189506** | $36.00 |
| 30 g | **12962** | $85.00 | **13080** | $79.00 | **13183** | $79.00 | $55.00 | $45.00 | **189505** | $36.00 |
| 20 g | **12960** | $85.00 | **13078** | $79.00 | **13181** | $79.00 | $55.00 | $45.00 | **189482** | $36.00 |
| 10 g | **12944** | $85.00 | **13062** | $79.00 | **13165** | $79.00 | $55.00 | $45.00 | **189475** | $36.00 |

**Polished finish*

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Weight | Kit Part # | Kit Price | Accredited Certificate | Part # | Price |
| 5 kg | **13282** | $475.00 | $75.00 | **197476** | $195.00 |
| 4 kg | **13280** | $448.00 | $75.00 | **197475** | $195.00 |
| 3 kg | **13278** | $258.00 | $75.00 | **190273** | $33.00 |
| 2 kg | **13276** | $170.00 | $75.00 | **190268** | $33.00 |
| 1,500 g | **13309** | $165.00 | $75.00 | **190270** | $33.00 |
| 1,000 g | **13295** | $150.00 | $55.00 | **190259** | $33.00 |
| 600 g | **13307** | $155.00 | $55.00 | **189714** | $33.00 |
| 500 g | **13274** | $120.00 | $55.00 | **189712** | $33.00 |
| 400 g | **13292** | $115.00 | $55.00 | **189709** | $33.00 |
| 300 g | **13290** | $105.00 | $55.00 | **189643** | $33.00 |
| 200 g | **13272** | $100.00 | $55.00 | **194185** | $32.00 |
| 160 g | **13305** | $105.00 | $55.00 | **189634** | $33.00 |
| 150 g | **13303** | $90.00 | $55.00 | **189633** | $33.00 |
| 100 g | **13270** | $79.00 | $40.00 | **189567** | $36.00 |
| 50 g | **13288** | $79.00 | $40.00 | **189506** | $36.00 |
| 30 g | **13286** | $74.00 | $40.00 | **189505** | $36.00 |
| 20 g | **13284** | $74.00 | $40.00 | **189482** | $36.00 |
| 10 g | **13268** | $74.00 | $40.00 | **189475** | $36.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11773** | Vinyl glove | $2.50 |
| **25836** | Serial number | $16.00 |



*Case for 4 kg and 5 kg only*




*Kits*

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# Metric Individual Weights

| | Class 1* | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| Grip Handle | 30 kg | **12996** | $1,850.00 | **13114** | $1,633.00 | **13217** | $1,468.00 | $390.00 | $85.00 | **Consult** | Consult |
| | 25 kg | **12995** | $1,597.00 | **13113** | $1,365.00 | **13216** | $1,272.00 | $145.00 | $80.00 | **Consult** | Consult |
| | 24 kg | **12994** | $1,545.00 | **13112** | $1,345.00 | **13215** | $1,235.00 | $145.00 | $80.00 | **Consult** | Consult |
| | 20 kg | **12993** | $1,405.00 | **13111** | $1,200.00 | **13214** | $1,085.00 | $145.00 | $80.00 | **Consult** | Consult |
| | 16 kg | **12992** | $1,235.00 | **13110** | $1,160.00 | **13213** | $927.00 | $145.00 | $80.00 | **Consult** | Consult |
| | 10 kg | **12991** | $895.00 | **13109** | $810.00 | **13212** | $735.00 | $145.00 | $80.00 | **Consult** | Consult |
| | 8 kg | **12990** | $870.00 | **13108** | $795.00 | **13211** | $685.00 | $145.00 | $80.00 | **Consult** | Consult |
| | 5 kg | **12989** | $655.00 | **13107** | $525.00 | **13210** | $510.00 | $145.00 | $80.00 | **Consult** | Consult |
| Cylindrical | 5 kg | **12959** | $613.00 | **13077** | $495.00 | **13180** | $470.00 | $145.00 | $80.00 | **197476** | $195.00 |
| | 4 kg | **12957** | $540.00 | **13075** | $485.00 | **13178** | $443.00 | $145.00 | $80.00 | **197475** | $195.00 |
| | 3 kg | **12955** | $320.00 | **13073** | $252.00 | **13176** | $242.00 | $145.00 | $80.00 | **190273** | $33.00 |
| | 2 kg | **12953** | $180.00 | **13071** | $165.00 | **13174** | $155.00 | $145.00 | $80.00 | **190268** | $33.00 |
| | 1,500 g | **12986** | $160.00 | **13104** | $160.00 | **13207** | $155.00 | $145.00 | $80.00 | **190270** | $33.00 |
| | 1,000 g | **12972** | $137.00 | **13090** | $131.00 | **13193** | $125.00 | $125.00 | $60.00 | **190259** | $33.00 |
| | 600 g | **12984** | $146.00 | **13102** | $137.00 | **13205** | $131.00 | $125.00 | $60.00 | **189714** | $33.00 |
| | 500 g | **12951** | $115.00 | **13069** | $110.00 | **13172** | $100.00 | $125.00 | $60.00 | **189712** | $33.00 |
| | 400 g | **12969** | $110.00 | **13087** | $105.00 | **13190** | $100.00 | $125.00 | $60.00 | **189709** | $33.00 |
| | 300 g | **12967** | $105.00 | **13085** | $95.00 | **13188** | $90.00 | $125.00 | $60.00 | **189643** | $33.00 |
| | 200 g | **12949** | $105.00 | **13067** | $95.00 | **13170** | $85.00 | $125.00 | $60.00 | **194185** | $32.00 |
| | 160 g | **12982** | $115.00 | **13100** | $105.00 | **13203** | $105.00 | $125.00 | $60.00 | **189634** | $33.00 |
| | 150 g | **12980** | $79.00 | **13098** | $74.00 | **13201** | $68.00 | $125.00 | $60.00 | **189633** | $33.00 |
| | 100 g | **12947** | $74.00 | **13065** | $68.00 | **13168** | $63.00 | $55.00 | $45.00 | **189567** | $36.00 |
| | 50 g | **12965** | $68.00 | **13083** | $63.00 | **13186** | $58.00 | $55.00 | $45.00 | **189506** | $36.00 |
| | 30 g | **12963** | $68.00 | **13081** | $63.00 | **13184** | $58.00 | $55.00 | $45.00 | **189505** | $36.00 |
| | 20 g | **12961** | $68.00 | **13079** | $63.00 | **13182** | $58.00 | $55.00 | $45.00 | **189482** | $36.00 |
| | 10 g | **12945** | $68.00 | **13063** | $63.00 | **13166** | $58.00 | $55.00 | $45.00 | **189475** | $36.00 |

**Polished finish*

| | Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Accredited Certificate | Part # | Price |
| Grip Handle | 30 kg | **13320** | $1,360.00 | $80.00 | **Consult** | Consult |
| | 25 kg | **13319** | $1,150.00 | $75.00 | **Consult** | Consult |
| | 24 kg | **13318** | $1,092.00 | $75.00 | **Consult** | Consult |
| | 20 kg | **13317** | $937.00 | $75.00 | **Consult** | Consult |
| | 16 kg | **13316** | $830.00 | $75.00 | **Consult** | Consult |
| | 10 kg | **13315** | $650.00 | $75.00 | **Consult** | Consult |
| | 8 kg | **13314** | $645.00 | $75.00 | **Consult** | Consult |
| | 5 kg | **13313** | $453.00 | $75.00 | **Consult** | Consult |
| Cylindrical | 5 kg | **13283** | $407.00 | $75.00 | **197476** | $195.00 |
| | 4 kg | **13281** | $387.00 | $75.00 | **197475** | $195.00 |
| | 3 kg | **13279** | $237.00 | $75.00 | **190273** | $33.00 |
| | 2 kg | **13277** | $150.00 | $75.00 | **190268** | $33.00 |
| | 1,500 g | **13310** | $145.00 | $75.00 | **190270** | $33.00 |
| | 1,000 g | **13296** | $125.00 | $55.00 | **190259** | $33.00 |
| | 600 g | **13308** | $125.00 | $55.00 | **189714** | $33.00 |
| | 500 g | **13275** | $95.00 | $55.00 | **189712** | $33.00 |
| | 400 g | **13293** | $95.00 | $55.00 | **189709** | $33.00 |
| | 300 g | **13291** | $85.00 | $55.00 | **189643** | $33.00 |
| | 200 g | **13273** | $79.00 | $55.00 | **194185** | $32.00 |
| | 160 g | **13306** | $100.00 | $55.00 | **189634** | $33.00 |
| | 150 g | **13304** | $63.00 | $55.00 | **189633** | $33.00 |
| | 100 g | **13271** | $58.00 | $40.00 | **189567** | $36.00 |
| | 50 g | **13289** | $58.00 | $40.00 | **189506** | $36.00 |
| | 30 g | **13287** | $58.00 | $40.00 | **189505** | $36.00 |
| | 20 g | **13285** | $58.00 | $40.00 | **189482** | $36.00 |
| | 10 g | **13269** | $58.00 | $40.00 | **189475** | $36.00 |



*Individual*





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# Avoirdupois Kits

| Class 1* | | | Class 2 | | Class 3 | | Optional | Optional |
|---|---|---|---|---|---|---|---|---|
| Weight | Kit Part # | Kit Price | Kit Part # | Kit Price | Kit Part # | Kit Price | Accredited Certificate | Non-accredited Certificate |
| 10 lb | **13021** | $645.00 | **13138** | $515.00 | **13241** | $465.00 | $130.00 | $85.00 |
| 5 lb | **13019** | $340.00 | **13136** | $273.00 | **13239** | $273.00 | $130.00 | $85.00 |
| 4 lb | **13017** | $200.00 | **13134** | $196.00 | **13237** | $196.00 | $130.00 | $85.00 |
| 3 lb | **13015** | $180.00 | **13132** | $180.00 | **13235** | $180.00 | $130.00 | $85.00 |
| 2 lb | **13013** | $165.00 | **13130** | $150.00 | **13233** | $150.00 | $105.00 | $70.00 |
| 1 lb | **13011** | $137.00 | **13128** | $137.00 | **13231** | $125.00 | $105.00 | $70.00 |
| 8 oz | **13009** | $115.00 | **13126** | $110.00 | **13229** | $110.00 | $55.00 | $45.00 |
| 4 oz | **13007** | $110.00 | **13124** | $90.00 | **13227** | $90.00 | $55.00 | $45.00 |
| 2 oz | **13005** | $105.00 | **13122** | $90.00 | **13225** | $90.00 | $55.00 | $45.00 |
| 1 oz | **13003** | $105.00 | **13120** | $90.00 | **13223** | $90.00 | $55.00 | $45.00 |
| 1/2 oz | **13001** | $105.00 | **13118** | $90.00 | **13221** | $90.00 | $55.00 | $45.00 |
| 0.5 lb | **13032** | $115.00 | **13149** | $110.00 | **13252** | $110.00 | $55.00 | $45.00 |
| 0.2 lb | **13024** | $110.00 | **13141** | $90.00 | **13244** | $85.00 | $55.00 | $45.00 |
| 0.1 lb | **13026** | $105.00 | **13143** | $90.00 | **13246** | $85.00 | $55.00 | $45.00 |
| 0.05 lb | **13028** | $105.00 | **13145** | $90.00 | **13248** | $85.00 | $55.00 | $45.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **197473** | $195.00 |
| **190269** | $33.00 |
| **190267** | $33.00 |
| **190263** | $33.00 |
| **190260** | $33.00 |
| **189710** | $33.00 |
| **189635** | $33.00 |
| **189568** | $36.00 |
| **189565** | $36.00 |
| **189484** | $36.00 |
| **189476** | $36.00 |
| **189635** | $33.00 |
| **190126** | $33.00 |
| **189507** | $36.00 |
| **189483** | $36.00 |

** Polished finish*

| Class 4 | | | Optional |
|---|---|---|---|
| Weight | Kit Part # | Kit Price | Accredited Certificate |
| 10 lb | **13344** | $450.00 | $80.00 |
| 5 lb | **13342** | $263.00 | $80.00 |
| 4 lb | **13340** | $185.00 | $80.00 |
| 3 lb | **13338** | $170.00 | $80.00 |
| 2 lb | **13336** | $150.00 | $65.00 |
| 1 lb | **13334** | $120.00 | $65.00 |
| 8 oz | **13332** | $100.00 | $40.00 |
| 4 oz | **13330** | $90.00 | $40.00 |
| 2 oz | **13328** | $90.00 | $40.00 |
| 1 oz | **13326** | $85.00 | $40.00 |
| 1/2 oz | **13324** | $85.00 | $40.00 |
| 0.5 lb | **13355** | $105.00 | $40.00 |
| 0.2 lb | **13347** | $79.00 | $40.00 |
| 0.1 lb | **13349** | $79.00 | $40.00 |
| 0.05 lb | **13351** | $79.00 | $40.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **197473** | $195.00 |
| **190269** | $33.00 |
| **190267** | $33.00 |
| **190263** | $33.00 |
| **190260** | $33.00 |
| **189710** | $33.00 |
| **189635** | $33.00 |
| **189568** | $36.00 |
| **189565** | $36.00 |
| **189484** | $36.00 |
| **189476** | $36.00 |
| **189635** | $33.00 |
| **190126** | $33.00 |
| **189507** | $36.00 |
| **189483** | $36.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11773** | Vinyl glove | $2.50 |
| **25836** | Serial number | $16.00 |



*Case for 10 lb weight only*




*Kits*





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# Avoirdupois Individual Weights

| | Class 1* | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| Grip Handle | 50 lb | **13038** | $1,597.00 | **13155** | $1,365.00 | **13258** | $1,275.00 | $285.00 | $85.00 | **Consult** | Consult |
| | 30 lb | **13037** | $1,240.00 | **13154** | $1,010.00 | **13257** | $895.00 | $130.00 | $85.00 | **Consult** | Consult |
| | 25 lb | **13036** | $895.00 | **13153** | $783.00 | **13256** | $680.00 | $130.00 | $85.00 | **Consult** | Consult |
| | 20 lb | **13035** | $890.00 | **13152** | $757.00 | **13255** | $660.00 | $130.00 | $85.00 | **Consult** | Consult |
| | 10 lb | **13034** | $645.00 | **13151** | $525.00 | **13254** | $515.00 | $130.00 | $85.00 | **Consult** | Consult |
| Cylindrical | 10 lb | **13022** | $625.00 | **13139** | $490.00 | **13242** | $443.00 | $130.00 | $85.00 | **197473** | $195.00 |
| | 5 lb | **13020** | $320.00 | **13137** | $263.00 | **13240** | $252.00 | $130.00 | $85.00 | **190269** | $33.00 |
| | 4 lb | **13018** | $180.00 | **13135** | $170.00 | **13238** | $165.00 | $130.00 | $85.00 | **190267** | $33.00 |
| | 3 lb | **13016** | $160.00 | **13133** | $155.00 | **13236** | $155.00 | $130.00 | $85.00 | **190263** | $33.00 |
| | 2 lb | **13014** | $145.00 | **13131** | $131.00 | **13234** | $125.00 | $105.00 | $70.00 | **190260** | $33.00 |
| | 1 lb | **13012** | $115.00 | **13129** | $110.00 | **13232** | $105.00 | $105.00 | $70.00 | **189710** | $33.00 |
| | 8 oz | **13010** | $95.00 | **13127** | $90.00 | **13230** | $85.00 | $55.00 | $45.00 | **189635** | $33.00 |
| | 4 oz | **13008** | $90.00 | **13125** | $73.00 | **13228** | $73.00 | $55.00 | $45.00 | **189568** | $36.00 |
| | 2 oz | **13006** | $85.00 | **13123** | $68.00 | **13226** | $68.00 | $55.00 | $45.00 | **189565** | $36.00 |
| | 1 oz | **13004** | $85.00 | **13121** | $68.00 | **13224** | $63.00 | $55.00 | $45.00 | **189484** | $36.00 |
| | 1/2 oz | **13002** | $79.00 | **13119** | $68.00 | **13222** | $63.00 | $55.00 | $45.00 | **189476** | $36.00 |
| | 0.5 lb | **13033** | $95.00 | **13150** | $85.00 | **13253** | $85.00 | $55.00 | $45.00 | **189635** | $33.00 |
| | 0.2 lb | **13025** | $90.00 | **13142** | $68.00 | **13245** | $58.00 | $55.00 | $45.00 | **189565** | $36.00 |
| | 0.1 lb | **13027** | $85.00 | **13144** | $68.00 | **13247** | $58.00 | $55.00 | $45.00 | **189507** | $36.00 |
| | 0.05 lb | **13029** | $79.00 | **13146** | $68.00 | **13249** | $58.00 | $55.00 | $45.00 | **189483** | $36.00 |

**Polished finish*

| | Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Accredited Certificate | Part # | Price |
| Grip Handle | 50 lb | **13361** | $1,267.00 | $80.00 | **Consult** | Consult |
| | 30 lb | **13360** | $840.00 | $80.00 | **Consult** | Consult |
| | 25 lb | **13359** | $613.00 | $80.00 | **Consult** | Consult |
| | 20 lb | **13358** | $550.00 | $80.00 | **Consult** | Consult |
| | 10 lb | **13357** | $423.00 | $80.00 | **Consult** | Consult |
| Cylindrical | 10 lb | **13345** | $423.00 | $80.00 | **197473** | $195.00 |
| | 5 lb | **13343** | $242.00 | $80.00 | **190269** | $33.00 |
| | 4 lb | **13341** | $160.00 | $80.00 | **190267** | $33.00 |
| | 3 lb | **13339** | $150.00 | $80.00 | **190263** | $33.00 |
| | 2 lb | **13337** | $125.00 | $65.00 | **190260** | $33.00 |
| | 1 lb | **13335** | $100.00 | $65.00 | **189710** | $33.00 |
| | 8 oz | **13333** | $79.00 | $40.00 | **189635** | $33.00 |
| | 4 oz | **13331** | $68.00 | $40.00 | **189568** | $36.00 |
| | 2 oz | **13329** | $63.00 | $40.00 | **189565** | $36.00 |
| | 1 oz | **13327** | $58.00 | $40.00 | **189484** | $36.00 |
| | 1/2 oz | **13325** | $58.00 | $40.00 | **189476** | $36.00 |
| | 0.5 lb | **13356** | $79.00 | $40.00 | **189635** | $33.00 |
| | 0.2 lb | **13348** | $58.00 | $40.00 | **189565** | $36.00 |
| | 0.1 lb | **13350** | $58.00 | $40.00 | **189507** | $36.00 |
| | 0.05 lb | **13352** | $58.00 | $40.00 | **189483** | $36.00 |



*Individual*





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# PRECISION LABORATORY

**ASTM**



## Applications:

- Calibrating Class I and II balances
- ASTM Class 4, 5 and 6 weights
- Student laboratory use
- Rough weighing operations; e.g., force
- Tolerance testing
- Verification checks

## Designs Available:

- Type I design (one piece) for Class 0
- Type II design (two piece screw-knob) for Classes 1-4 with sealing cavity for adjusting material

## Product Configuration:

- Individual weight
- Individual weight kit: weight, case or vial, and glove
- Weight set: weights, case and handling equipment
- Weight set configurations: 5-2-2-1 and 5-3-2-1 Example: (1) 50 g, (2) 20 g and (1) 10 g or (1) 50 g, (1) 30 g, (1) 20 g and (1) 10 g

## Custom Configuration:

- Custom sets are available as build-to-order configurations to meet your specific requirements
- ASTM weight sets larger than 500 g or 1 lb include a hardwood case with velvet-lined pockets
- Weight sets with the largest weight of 500 g include a precision-machined, polyvinyl, crush-resistant case

## Features:

- Stainless steel polished finish
- Designed to meet ASTM E617-18 specifications. ASTM Class 0 weight sets and individual weights are not individually marked with their weight value or individually serialized per ASTM E617-18
- Nominal value marked on weights
- Serial numbers applied to case (weights may be marked with symbol)
- Density 7.95 g/cm3



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# Metric Kits

| | Class 0* Type I One Piece Design | | | Replacement Cases | |
|---|---|---|---|---|---|
| | Weight | Kit Part # | Kit Price | Part # | Price |
| Cylindrical | 25 kg | **Consult** | Consult | **Consult** | Consult |
| | 20 kg | **45856** | $3,800.00 | **Consult** | Consult |
| | 10 kg | **45857** | $2,495.00 | **Consult** | Consult |
| | 5 kg | **45858** | $1,790.00 | **Consult** | Consult |
| | 3 kg | **45859** | $1,575.00 | **Consult** | Consult |
| | 2 kg | **45860** | $1,295.00 | **Consult** | Consult |
| | 1 kg | **45861** | $958.00 | **Consult** | Consult |
| | 500 g | **45862** | $585.00 | **Consult** | Consult |
| | 300 g | **45863** | $550.00 | **Consult** | Consult |
| | 200 g | **45864** | $510.00 | **Consult** | Consult |
| | 100 g | **45865** | $427.00 | **Consult** | Consult |
| | 50 g | **45866** | $400.00 | **Consult** | Consult |
| | 30 g | **45867** | $390.00 | **Consult** | Consult |
| | 20 g | **45868** | $390.00 | **Consult** | Consult |
| | 10 g | **45869** | $390.00 | **Consult** | Consult |
| | 5 g | **45870** | $335.00 | **Consult** | Consult |
| | 3 g | **45871** | $335.00 | **Consult** | Consult |
| | 2 g | **45872** | $335.00 | **Consult** | Consult |
| | 1 g | **45873** | $335.00 | **Consult** | Consult |
| Leaf | 500 mg | **45874** | $258.00 | **Consult** | Consult |
| | 300 mg | **45875** | $258.00 | **Consult** | Consult |
| | 200 mg | **45876** | $258.00 | **Consult** | Consult |
| | 100 mg | **45877** | $258.00 | **Consult** | Consult |
| | 50 mg | **45878** | $258.00 | **Consult** | Consult |
| | 30 mg | **45879** | $258.00 | **Consult** | Consult |
| | 20 mg | **45880** | $258.00 | **Consult** | Consult |
| | 10 mg | **45881** | $258.00 | **Consult** | Consult |
| | 5 mg | **45882** | $258.00 | **Consult** | Consult |
| | 3 mg | **45883** | $258.00 | **Consult** | Consult |
| | 2 mg | **45884** | $258.00 | **Consult** | Consult |
| | 1 mg | **45885** | $258.00 | **Consult** | Consult |

**Accredited Certificate is included, Statement of Accuracy is not available for Class 0, and Class 0 weight requires a case for shipping.*
*Individual leaf weights must ship in a vial.*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **11711** | Weight tweezer (plastic) for polished weights 100 g and below | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **11714** | Weight glove, white, cotton | $6.00 |
| **11755** | Leaf weight cover | $37.00 |
| **11747** | Weight lifter bar, plexiglass, for weights 200 g - 3 kg and 8 oz - 5 lb (screw-knob weights only) | $17.00 |
| **11712** | Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 - 50 lb) | $63.00 |
| **50035** | Weight forceps, plastic, Class 0, 100 g - 1 mg | $37.00 |
| **50000** | Tong assembly, Class 0, 1 kg - 200 g | $64.00 |



*One Piece Kit*



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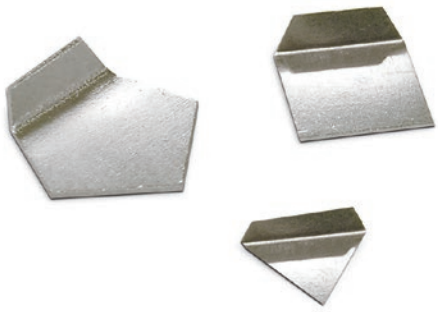
# Metric Individual Weights

| | Class 0* Type I One Piece Design | | | Replacement Cases | |
|---|---|---|---|---|---|
| | Weight | Part # | Price | Part # | Price |
| Cylindrical | 25 kg | **Consult** | Consult | **Consult** | Consult |
| | 20 kg | **46097** | $3,735.00 | **Consult** | Consult |
| | 10 kg | **46096** | $2,435.00 | **Consult** | Consult |
| | 5 kg | **46095** | $1,735.00 | **Consult** | Consult |
| | 3 kg | **46094** | $1,555.00 | **Consult** | Consult |
| | 2 kg | **46093** | $1,272.00 | **Consult** | Consult |
| | 1 kg | **46092** | $937.00 | **Consult** | Consult |
| | 500 g | **46091** | $567.00 | **Consult** | Consult |
| | 300 g | **46090** | $535.00 | **Consult** | Consult |
| | 200 g | **46089** | $495.00 | **Consult** | Consult |
| | 100 g | **46088** | $412.00 | **Consult** | Consult |
| | 50 g | **46087** | $370.00 | **Consult** | Consult |
| | 30 g | **46086** | $370.00 | **Consult** | Consult |
| | 20 g | **46085** | $370.00 | **Consult** | Consult |
| | 10 g | **46084** | $370.00 | **Consult** | Consult |
| | 5 g | **46083** | $320.00 | **Consult** | Consult |
| | 3 g | **46082** | $320.00 | **Consult** | Consult |
| | 2 g | **46081** | $320.00 | **Consult** | Consult |
| | 1 g | **46080** | $320.00 | **Consult** | Consult |
| Leaf | 500 mg | **46079** | $255.00 | **Consult** | Consult |
| | 300 mg | **46078** | $255.00 | **Consult** | Consult |
| | 200 mg | **46077** | $255.00 | **Consult** | Consult |
| | 100 mg | **46076** | $255.00 | **Consult** | Consult |
| | 50 mg | **46075** | $255.00 | **Consult** | Consult |
| | 30 mg | **46074** | $255.00 | **Consult** | Consult |
| | 20 mg | **46073** | $255.00 | **Consult** | Consult |
| | 10 mg | **46072** | $255.00 | **Consult** | Consult |
| | 5 mg | **46071** | $255.00 | **Consult** | Consult |
| | 3 mg | **46070** | $255.00 | **Consult** | Consult |
| | 2 mg | **46069** | $255.00 | **Consult** | Consult |
| | 1 mg | **46068** | $255.00 | **Consult** | Consult |

**Accredited Certificate is included, Statement of Accuracy is not available for Class 0, and Class 00 weight requires a case for shipping.*
*For special kits, individual weights must ship in a case.*
*Individual leaf weights must ship in a vial.*



*One Piece Weights*



*Leaf Weights*





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# Metric Kits

| | Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weight | Kit Part # | Kit Price | Kit Part # | Kit Price | Kit Part # | Kit Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| Screw Knob | 50 kg | **Consult** | Consult | **Consult** | Consult | **Consult** | Consult | Consult | Consult | **Consult** | Consult |
| | 25 kg | **Consult** | Consult | **Consult** | Consult | **Consult** | Consult | Consult | Consult | **Consult** | Consult |
| | 20 kg | **82590** | $3,385.00 | **82632** | $2,275.00 | **82674** | $2,250.00 | $145.00 | $80.00 | **80703** | $211.00 |
| | 10 kg | **82591** | $1,925.00 | **82633** | $1,845.00 | **82675** | $1,695.00 | $145.00 | $80.00 | **80704** | $211.00 |
| | 5 kg | **82592** | $1,110.00 | **82634** | $1,070.00 | **82676** | $1,065.00 | $145.00 | $80.00 | **80705** | $155.00 |
| | 3 kg | **82593** | $880.00 | **82635** | $840.00 | **82677** | $815.00 | $145.00 | $80.00 | **190274** | $33.00 |
| | 2 kg | **82594** | $715.00 | **82636** | $655.00 | **82678** | $645.00 | $145.00 | $80.00 | **190271** | $33.00 |
| | 1 kg | **82595** | $500.00 | **82637** | $433.00 | **82679** | $423.00 | $125.00 | $60.00 | **190264** | $33.00 |
| | 500 g | **82596** | $211.00 | **82638** | $211.00 | **82680** | $200.00 | $125.00 | $60.00 | **189715** | $33.00 |
| | 300 g | **82597** | $165.00 | **82639** | $155.00 | **82681** | $150.00 | $125.00 | $60.00 | **196467** | $33.00 |
| | 200 g | **82598** | $155.00 | **82640** | $150.00 | **82682** | $141.00 | $125.00 | $60.00 | **189637** | $33.00 |
| | 100 g | **82599** | $110.00 | **82641** | $110.00 | **82683** | $105.00 | $55.00 | $45.00 | **189570** | $36.00 |
| | 50 g | **82600** | $105.00 | **82642** | $100.00 | **82684** | $95.00 | $55.00 | $45.00 | **189509** | $36.00 |
| | 30 g | **82601** | $100.00 | **82643** | $90.00 | **82685** | $90.00 | $55.00 | $45.00 | **189486** | $36.00 |
| | 20 g | **82602** | $95.00 | **82644** | $85.00 | **82686** | $85.00 | $55.00 | $45.00 | **189484** | $36.00 |
| | 10 g | **82603** | $95.00 | **82645** | $85.00 | **82687** | $85.00 | $55.00 | $45.00 | **189461** | $36.00 |
| | 5 g | **82604** | $95.00 | **82646** | $74.00 | **82688** | $63.00 | $55.00 | $45.00 | **189349** | $36.00 |
| | 3 g | **82605** | $85.00 | **82647** | $74.00 | **82689** | $63.00 | $55.00 | $45.00 | **194033** | $35.00 |
| | 2 g | **82606** | $85.00 | **82648** | $74.00 | **82690** | $63.00 | $55.00 | $45.00 | **189237** | $36.00 |
| | 1 g | **82607** | $74.00 | **82649** | $74.00 | **82691** | $63.00 | $55.00 | $45.00 | **198502** | $35.00 |
| Leaf | 500 mg | **80458** | $63.00 | **80470** | $42.00 | **80482** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 300 mg | **80459** | $63.00 | **80471** | $42.00 | **80483** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 200 mg | **80460** | $63.00 | **80472** | $42.00 | **80484** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 100 mg | **80461** | $63.00 | **80473** | $42.00 | **80485** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 50 mg | **80462** | $63.00 | **80474** | $42.00 | **80486** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 30 mg | **80463** | $63.00 | **80475** | $42.00 | **80487** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 20 mg | **80464** | $63.00 | **80476** | $42.00 | **80488** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 10 mg | **80465** | $63.00 | **80477** | $41.00 | **80489** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 5 mg | **80466** | $63.00 | **80478** | $42.00 | **80490** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 3 mg | **80467** | $63.00 | **80479** | $42.00 | **80491** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 2 mg | **80468** | $63.00 | **80480** | $42.00 | **80492** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 1 mg | **80469** | $63.00 | **80481** | $42.00 | **80493** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 0.5 mg | **36076*** | $63.00 | **36077** | $42.00 | **36078** | $37.00 | $55.00 | $45.00 | **Consult** | Consult |

** Wire weight. Individual leaf weights must ship in a vial.*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **11711** | Weight tweezer, plastic, for polished weights 100 g and below | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **11714** | Weight glove, white, cotton | $6.00 |
| **11755** | Leaf weight cover | $37.00 |
| **11747** | Weight lifter bar, plexiglass, for weights 200 g - 3 kg and 8 oz - 5 lb (screw-knob weights only) | $17.00 |
| **11712** | Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 - 50 lb) | $63.00 |
| **50038** | Vials | $4.00 |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |




*Screw-knob Kit*





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# Metric Individual Weights

| | Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| Screw Knob | 50 kg | **Consult** | Consult | **Consult** | Consult | **12274** | $5,400.00 | Consult | Consult | **Consult** | Consult |
| | 25 kg | **11876** | $3,992.00 | **12131** | $3,735.00 | **12272** | $3,672.00 | $145.00 | $80.00 | **Consult** | Consult |
| | 20 kg | **11875** | $3,270.00 | **12130** | $2,158.00 | **12271** | $2,127.00 | $145.00 | $80.00 | **80703** | $211.00 |
| | 10 kg | **11874** | $1,813.00 | **12129** | $1,690.00 | **12270** | $1,575.00 | $145.00 | $80.00 | **80704** | $211.00 |
| | 5 kg | **11872** | $995.00 | **12127** | $990.00 | **12269** | $985.00 | $145.00 | $80.00 | **80705** | $155.00 |
| | 3 kg | **11871** | $850.00 | **12126** | $820.00 | **12268** | $790.00 | $145.00 | $80.00 | **190274** | $33.00 |
| | 2 kg | **11870** | $675.00 | **12125** | $635.00 | **12267** | $620.00 | $145.00 | $80.00 | **190271** | $33.00 |
| | 1 kg | **11869** | $470.00 | **12124** | $423.00 | **12266** | $407.00 | $125.00 | $60.00 | **190264** | $33.00 |
| | 500 g | **11867** | $196.00 | **12122** | $190.00 | **12265** | $185.00 | $125.00 | $60.00 | **189715** | $33.00 |
| | 300 g | **11866** | $150.00 | **12121** | $139.00 | **12264** | $131.00 | $125.00 | $60.00 | **196467** | $33.00 |
| | 200 g | **11865** | $137.00 | **12120** | $131.00 | **12263** | $125.00 | $125.00 | $60.00 | **189637** | $33.00 |
| | 100 g | **11864** | $100.00 | **12119** | $95.00 | **12262** | $90.00 | $55.00 | $45.00 | **189570** | $36.00 |
| | 50 g | **11862** | $95.00 | **12117** | $79.00 | **12261** | $74.00 | $55.00 | $45.00 | **189509** | $36.00 |
| | 30 g | **11861** | $89.00 | **12116** | $79.00 | **12260** | $74.00 | $55.00 | $45.00 | **189486** | $36.00 |
| | 20 g | **11860** | $89.00 | **12115** | $79.00 | **12259** | $74.00 | $55.00 | $45.00 | **189484** | $36.00 |
| | 10 g | **11859** | $85.00 | **12114** | $79.00 | **12258** | $74.00 | $55.00 | $45.00 | **189461** | $36.00 |
| | 5 g | **11857** | $79.00 | **12112** | $58.00 | **12257** | $55.00 | $55.00 | $45.00 | **189349** | $36.00 |
| | 3 g | **11856** | $68.00 | **12111** | $58.00 | **12256** | $55.00 | $55.00 | $45.00 | **194033** | $35.00 |
| | 2 g | **11855** | $68.00 | **12110** | $58.00 | **12255** | $55.00 | $55.00 | $45.00 | **189237** | $36.00 |
| | 1 g | **11854** | $63.00 | **12109** | $58.00 | **12254** | $55.00 | $55.00 | $45.00 | **198502** | $35.00 |
| Leaf | 500 mg | **11852** | $58.00 | **12107** | $37.00 | **12253** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 300 mg | **11851** | $58.00 | **12106** | $37.00 | **12252** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 200 mg | **11850** | $58.00 | **12105** | $37.00 | **12251** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 100 mg | **11849** | $58.00 | **12104** | $37.00 | **12250** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 50 mg | **11847** | $58.00 | **12102** | $37.00 | **12248** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 30 mg | **11846** | $58.00 | **12101** | $37.00 | **12247** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 20 mg | **11845** | $58.00 | **12100** | $37.00 | **12246** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 10 mg | **11844** | $58.00 | **12099** | $37.00 | **12245** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 5 mg | **11842** | $58.00 | **12097** | $37.00 | **12244** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 3 mg | **11841** | $58.00 | **12096** | $37.00 | **12243** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 2 mg | **11840** | $58.00 | **12095** | $37.00 | **12242** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 1 mg | **11839** | $58.00 | **12094** | $37.00 | **12241** | $34.00 | $55.00 | $45.00 | **Consult** | Consult |

**Wire Weight for special kits, individual weights must ship in a case. Individual leaf weights must ship in a vial.*



*Screw-knob Design Weights*



*Leaf Weights*





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# Metric Kits

| | Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|
| | Weight | Kit Part # | Kit Price | Accredited Certificate | Part # | Price |
| Screw Knob | 50 kg | **Consult** | Consult | Consult | **Consult** | Consult |
| | 25 kg | **Consult** | Consult | Consult | **Consult** | Consult |
| | 20 kg | **82716** | $2,100.00 | $75.00 | **80703** | $211.00 |
| | 10 kg | **82717** | $1,520.00 | $75.00 | **80704** | $211.00 |
| | 5 kg | **82718** | $1,050.00 | $75.00 | **80705** | $155.00 |
| | 3 kg | **82719** | $762.00 | $75.00 | **190274** | $33.00 |
| | 2 kg | **82720** | $613.00 | $75.00 | **190271** | $33.00 |
| | 1 kg | **82721** | $407.00 | $55.00 | **190264** | $33.00 |
| | 500 g | **82722** | $196.00 | $55.00 | **189715** | $33.00 |
| | 300 g | **82723** | $141.00 | $55.00 | **196467** | $33.00 |
| | 200 g | **82724** | $120.00 | $55.00 | **189637** | $33.00 |
| | 100 g | **82725** | $85.00 | $40.00 | **189570** | $36.00 |
| | 50 g | **82726** | $85.00 | $40.00 | **189509** | $36.00 |
| | 30 g | **82727** | $74.00 | $40.00 | **189486** | $36.00 |
| | 20 g | **82728** | $74.00 | $40.00 | **189484** | $36.00 |
| | 10 g | **82729** | $68.00 | $40.00 | **189461** | $36.00 |
| | 5 g | **82730** | $53.00 | $40.00 | **189349** | $36.00 |
| | 3 g | **82731** | $53.00 | $40.00 | **194033** | $35.00 |
| | 2 g | **82732** | $53.00 | $40.00 | **189237** | $36.00 |
| | 1 g | **82733** | $53.00 | $40.00 | **198502** | $35.00 |
| Leaf | 500 mg | **80494** | $32.00 | $40.00 | **Consult** | Consult |
| | 300 mg | **80495** | $32.00 | $40.00 | **Consult** | Consult |
| | 200 mg | **80496** | $32.00 | $40.00 | **Consult** | Consult |
| | 100 mg | **80497** | $32.00 | $40.00 | **Consult** | Consult |
| | 50 mg | **80498** | $32.00 | $40.00 | **Consult** | Consult |
| | 30 mg | **80499** | $32.00 | $40.00 | **Consult** | Consult |
| | 20 mg | **80500** | $32.00 | $40.00 | **Consult** | Consult |
| | 10 mg | **80501** | $32.00 | $40.00 | **Consult** | Consult |
| | 5 mg | **80502** | $32.00 | $40.00 | **Consult** | Consult |
| | 3 mg | **80503** | $32.00 | $40.00 | **Consult** | Consult |
| | 2 mg | **80504** | $32.00 | $40.00 | **Consult** | Consult |
| | 1 mg | **80505** | $32.00 | $40.00 | **Consult** | Consult |
| | 0.5 mg | **36079** | $68.00 | $40.00 | **Consult** | Consult |

*Individual leaf weights must ship in a vial.*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **11711** | Weight tweezer (plastic) for polished weights 100 g and below | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **11714** | Weight glove, white, cotton | $6.00 |
| **11755** | Leaf weight cover | $37.00 |
| **11747** | Weight lifter bar, plexiglas, for weights 200 g - 3 kg and 8 oz - 5 lb (screw-knob weights only) | $17.00 |
| **11712** | Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 - 50 lb) | $63.00 |
| **50038** | Vials | $4.00 |
| **36092** | Statement of Accuracy | $45.00 |
| **25836** | Serial number | $16.00 |




*Screw-knob Kit*



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# Metric Individual Weights

| | Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Accredited Certificate | Part # | Price |
| Screw Knob | 50 kg | **Consult** | Consult | Consult | **Consult** | Consult |
| | 25 kg | **12375** | $3,600.00 | Consult | **Consult** | Consult |
| | 20 kg | **12374** | $1,988.00 | $75.00 | **80703** | $211.00 |
| | 10 kg | **12373** | $1,405.00 | $75.00 | **80704** | $211.00 |
| | 5 kg | **12372** | $937.00 | $75.00 | **80705** | $155.00 |
| | 3 kg | **12371** | $735.00 | $75.00 | **190274** | $33.00 |
| | 2 kg | **12370** | $595.00 | $75.00 | **190271** | $33.00 |
| | 1 kg | **12369** | $390.00 | $55.00 | **190264** | $33.00 |
| | 500 g | **12368** | $180.00 | $55.00 | **189715** | $33.00 |
| | 300 g | **12367** | $127.00 | $55.00 | **196467** | $33.00 |
| | 200 g | **12366** | $110.00 | $55.00 | **189637** | $33.00 |
| | 100 g | **12365** | $79.00 | $40.00 | **189570** | $36.00 |
| | 50 g | **12364** | $65.00 | $40.00 | **189509** | $36.00 |
| | 30 g | **12363** | $58.00 | $40.00 | **189486** | $36.00 |
| | 20 g | **12362** | $58.00 | $40.00 | **189484** | $36.00 |
| | 10 g | **12361** | $58.00 | $40.00 | **189461** | $36.00 |
| | 5 g | **12360** | $42.00 | $40.00 | **189349** | $36.00 |
| | 3 g | **12359** | $42.00 | $40.00 | **194033** | $35.00 |
| | 2 g | **12358** | $42.00 | $40.00 | **189237** | $36.00 |
| | 1 g | **12357** | $42.00 | $40.00 | **198502** | $35.00 |
| Leaf | 500 mg | **12356** | $32.00 | $40.00 | **Consult** | Consult |
| | 300 mg | **12355** | $32.00 | $40.00 | **Consult** | Consult |
| | 200 mg | **12354** | $32.00 | $40.00 | **Consult** | Consult |
| | 100 mg | **12353** | $32.00 | $40.00 | **Consult** | Consult |
| | 50 mg | **12352** | $32.00 | $40.00 | **Consult** | Consult |
| | 30 mg | **12351** | $32.00 | $40.00 | **Consult** | Consult |
| | 20 mg | **12350** | $32.00 | $40.00 | **Consult** | Consult |
| | 10 mg | **22198** | $32.00 | $40.00 | **Consult** | Consult |
| | 5 mg | **22197** | $32.00 | $40.00 | **Consult** | Consult |
| | 3 mg | **22196** | $32.00 | $40.00 | **Consult** | Consult |
| | 2 mg | **22195** | $32.00 | $40.00 | **Consult** | Consult |
| | 1 mg | **22194** | $32.00 | $40.00 | **Consult** | Consult |

*For special kits, individual weights must ship in a case. Individual leaf weights must ship in a vial.*



*Screw-knob Design Weights*



*Leaf Weights*





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# Avoirdupois Kits

| | Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weight | Kit Part # | Kit Price | Kit Part # | Kit Price | Kit Part # | Kit Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| Screw Knob | 30 lb | **82581** | $3,520.00 | **82625** | $3,425.00 | **82667** | $3,300.00 | $130.00 | $85.00 | **80743** | $211.00 |
| | 25 lb | **82580** | $2,440.00 | **82624** | $2,910.00 | **82666** | $2,800.00 | $130.00 | $85.00 | **80742** | $211.00 |
| | 20 lb | **82579** | $2,415.00 | **82623** | $2,355.00 | **82665** | $2,205.00 | $130.00 | $85.00 | **80741** | $211.00 |
| | 10 lb | **82578** | $1,415.00 | **82622** | $1,385.00 | **82664** | $1,290.00 | $130.00 | $85.00 | **80740** | $211.00 |
| | 5 lb | **82589** | $1,020.00 | **82631** | $979.00 | **82673** | $958.00 | $130.00 | $85.00 | **190272** | $33.00 |
| | 4 lb | **82588** | $865.00 | **82630** | $825.00 | **82672** | $795.00 | $130.00 | $85.00 | **190268** | $33.00 |
| | 3 lb | **82587** | $650.00 | **82629** | $595.00 | **82671** | $577.00 | $130.00 | $85.00 | **190265** | $33.00 |
| | 2 lb | **82586** | $572.00 | **82628** | $540.00 | **82670** | $520.00 | $105.00 | $70.00 | **190261** | $33.00 |
| | 1 lb | **82585** | $289.00 | **82627** | $273.00 | **82669** | $258.00 | $105.00 | $70.00 | **189713** | $33.00 |
| | 8 oz | **82584** | $237.00 | **82626** | $227.00 | **82668** | $227.00 | $55.00 | $45.00 | **189638** | $33.00 |
| | 0.5 lb | **82570** | $242.00 | **82614** | $227.00 | **82656** | $227.00 | $55.00 | $45.00 | **189638** | $33.00 |
| | 0.3 lb | **118809** | $180.00 | **118810** | $175.00 | **118811** | $145.00 | $55.00 | $45.00 | **189633** | $33.00 |
| | 0.2 lb | **82569** | $155.00 | **82613** | $155.00 | **82655** | $120.00 | $55.00 | $45.00 | **189569** | $36.00 |
| | 0.1 lb | **82568** | $115.00 | **82612** | $105.00 | **82654** | $105.00 | $55.00 | $45.00 | **189508** | $36.00 |
| | 0.05 lb | **82567** | $105.00 | **82611** | $100.00 | **82653** | $95.00 | $55.00 | $45.00 | **189485** | $36.00 |
| | 0.03 lb | **118805** | $100.00 | **118806** | $90.00 | **118807** | $90.00 | $55.00 | $45.00 | **189478** | $36.00 |
| | 0.02 lb | **82566** | $100.00 | **82610** | $95.00 | **82652** | $93.00 | $55.00 | $45.00 | **189460** | $36.00 |
| | 0.01 lb | **82565** | $100.00 | **82609** | $90.00 | **82651** | $90.00 | $55.00 | $45.00 | **189349** | $36.00 |
| | 0.005 lb | **82564** | $100.00 | **82608** | $90.00 | **82650** | $89.00 | $55.00 | $45.00 | **189239** | $36.00 |
| | 0.003 lb | **118801** | $100.00 | **118802** | $90.00 | **118803** | $89.00 | $55.00 | $45.00 | **189234** | $36.00 |
| | 4 oz | **82577** | $131.00 | **82621** | $131.00 | **82663** | $127.00 | $55.00 | $45.00 | **189571** | $36.00 |
| | 2 oz | **82576** | $115.00 | **82620** | $105.00 | **82662** | $105.00 | $55.00 | $45.00 | **190126** | $33.00 |
| | 1 oz | **82575** | $95.00 | **82619** | $95.00 | **82661** | $89.00 | $55.00 | $45.00 | **189486** | $36.00 |
| | 1/2 oz | **82574** | $90.00 | **82618** | $89.00 | **82660** | $89.00 | $55.00 | $45.00 | **189478** | $36.00 |
| | 1/4 oz | **82573** | $90.00 | **82617** | $89.00 | **82659** | $89.00 | $55.00 | $45.00 | **189350** | $36.00 |
| | 1/8 oz | **82572** | $90.00 | **82616** | $89.00 | **82658** | $89.00 | $55.00 | $45.00 | **194034** | $35.00 |
| | 1/16 oz | **82571** | $90.00 | **82615** | $89.00 | **82657** | $89.00 | $55.00 | $45.00 | **189237** | $36.00 |
| Leaf | 0.001 lb | **80428** | $90.00 | **80443** | $90.00 | **80448** | $89.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 0.002 lb | **80439** | $90.00 | **80445** | $89.00 | **80449** | $89.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 1/32 oz | **80442** | $90.00 | **80446** | $89.00 | **80451** | $89.00 | $55.00 | $45.00 | **Consult** | Consult |

*Individual leaf weights must ship in a vial.*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **11714** | Weight glove, white, cotton | $6.00 |
| **11747** | Lifting bar | $17.00 |
| **11711** | Weight tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **36092** | Statement of Accuracy | $45.00 |
| **50038** | Vial | $4.00 |
| **25836** | Serial number | $16.00 |




*Screw-knob Kit*





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# Avoirdupois Individual Weights

| | | Class 1 | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| Screw Knob | 50 lb | **12056** | $4,615.00 | **12202** | $4,550.00 | **12335** | $4,475.00 | $285.00 | $85.00 | **Consult** | Consult |
| | 30 lb | **12055** | $3,399.00 | **12201** | $3,312.00 | **12334** | $3,175.00 | $130.00 | $85.00 | **80743** | $211.00 |
| | 25 lb | **12054** | $2,850.00 | **12200** | $2,790.00 | **12333** | $2,689.00 | $130.00 | $85.00 | **80742** | $211.00 |
| | 20 lb | **12053** | $2,300.00 | **12199** | $2,235.00 | **12332** | $2,090.00 | $130.00 | $85.00 | **80741** | $211.00 |
| | 10 lb | **12052** | $1,305.00 | **12198** | $1,267.00 | **12331** | $1,205.00 | $130.00 | $85.00 | **80740** | $211.00 |
| | 5 lb | **12050** | $973.00 | **12196** | $932.00 | **12330** | $906.00 | $130.00 | $85.00 | **190272** | $33.00 |
| | 4 lb | **12049** | $820.00 | **12195** | $762.00 | **12329** | $752.00 | $130.00 | $85.00 | **190268** | $33.00 |
| | 3 lb | **12048** | $625.00 | **12194** | $567.00 | **12328** | $545.00 | $130.00 | $85.00 | **190265** | $33.00 |
| | 2 lb | **12047** | $545.00 | **12193** | $515.00 | **12327** | $495.00 | $105.00 | $70.00 | **190261** | $33.00 |
| | 1 lb | **12046** | $258.00 | **12192** | $258.00 | **12326** | $247.00 | $105.00 | $70.00 | **189713** | $33.00 |
| | 8 oz | **12044** | $237.00 | **12190** | $222.00 | **12325** | $211.00 | $55.00 | $45.00 | **189638** | $33.00 |
| | 0.5 lb | **12034** | $232.00 | **12180** | $222.00 | **12316** | $216.00 | $55.00 | $45.00 | **189638** | $33.00 |
| | 0.3 lb | **118518** | $180.00 | **118519** | $175.00 | **118520** | $142.00 | $55.00 | $45.00 | **189633** | $33.00 |
| | 0.2 lb | **12033** | $142.00 | **12179** | $142.00 | **12315** | $110.00 | $55.00 | $45.00 | **189569** | $36.00 |
| | 0.1 lb | **12032** | $105.00 | **12178** | $100.00 | **12314** | $95.00 | $55.00 | $45.00 | **189508** | $36.00 |
| | 0.05 lb | **12027** | $95.00 | **12173** | $95.00 | **12310** | $90.00 | $55.00 | $45.00 | **189485** | $36.00 |
| | 0.03 lb | **118514** | $90.00 | **118515** | $90.00 | **118516** | $90.00 | $55.00 | $45.00 | **189478** | $36.00 |
| | 0.02 lb | **12022** | $90.00 | **12168** | $90.00 | **22185** | $90.00 | $55.00 | $45.00 | **189460** | $36.00 |
| | 0.01 lb | **12020** | $90.00 | **12166** | $90.00 | **22183** | $90.00 | $55.00 | $45.00 | **189349** | $36.00 |
| | 0.005 lb | **12013** | $90.00 | **12159** | $90.00 | **12297** | $90.00 | $55.00 | $45.00 | **189239** | $36.00 |
| | 0.003 lb | **118510** | $90.00 | **118511** | $90.00 | **118512** | $90.00 | $55.00 | $45.00 | **189234** | $36.00 |
| | 4 oz | **12043** | $120.00 | **12189** | $120.00 | **12324** | $120.00 | $55.00 | $45.00 | **189571** | $36.00 |
| | 2 oz | **12042** | $105.00 | **12188** | $100.00 | **12323** | $100.00 | $55.00 | $45.00 | **190126** | $33.00 |
| | 1 oz | **12041** | $85.00 | **12187** | $85.00 | **12322** | $79.00 | $55.00 | $45.00 | **189486** | $36.00 |
| | 1/2 oz | **12040** | $90.00 | **12186** | $90.00 | **12321** | $90.00 | $55.00 | $45.00 | **189478** | $36.00 |
| | 1/4 oz | **12039** | $90.00 | **12185** | $90.00 | **12320** | $90.00 | $55.00 | $45.00 | **189350** | $36.00 |
| | 1/8 oz | **12038** | $90.00 | **12184** | $90.00 | **12319** | $90.00 | $55.00 | $45.00 | **194034** | $35.00 |
| | 1/16 oz | **12037** | $90.00 | **12183** | $90.00 | **12318** | $90.00 | $55.00 | $45.00 | **189237** | $36.00 |
| Leaf | 0.001 lb | **12007** | $90.00 | **12153** | $90.00 | **12291** | $90.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 0.002 lb | **12009** | $90.00 | **12155** | $90.00 | **12293** | $90.00 | $55.00 | $45.00 | **Consult** | Consult |
| | 1/32 oz | **12036** | $90.00 | **12182** | $90.00 | **12317** | $90.00 | $55.00 | $45.00 | **Consult** | Consult |

*Individual leaf weights must ship in a vial.*



*Screw-knob Design Weights*



*Leaf Weights*





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# Avoirdupois Kits

| Class 4 | | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|
| | Weight | Kit Part # | Kit Price | Accredited Certificate | Part # | Price |
| Screw Knob | 50 lb | **Consult** | Consult | Consult | **Consult** | Consult |
| | 30 lb | **82709** | $3,270.00 | $80.00 | **80743** | $211.00 |
| | 25 lb | **82708** | $2,760.00 | $80.00 | **80742** | $211.00 |
| | 20 lb | **82707** | $2,175.00 | $80.00 | **80741** | $211.00 |
| | 10 lb | **82706** | $1,275.00 | $80.00 | **80740** | $211.00 |
| | 5 lb | **82715** | $942.00 | $80.00 | **190272** | $33.00 |
| | 4 lb | **82714** | $725.00 | $80.00 | **190268** | $33.00 |
| | 3 lb | **82713** | $556.00 | $80.00 | **190265** | $33.00 |
| | 2 lb | **82712** | $505.00 | $65.00 | **190261** | $33.00 |
| | 1 lb | **82711** | $237.00 | $65.00 | **189713** | $33.00 |
| | 8 oz | **82710** | $216.00 | $40.00 | **189638** | $33.00 |
| | 0.5 lb | **82698** | $227.00 | $40.00 | **189638** | $33.00 |
| | 0.3 lb | **118812** | $155.00 | $40.00 | **189633** | $33.00 |
| | 0.2 lb | **82697** | $115.00 | $40.00 | **189569** | $36.00 |
| | 0.1 lb | **82696** | $95.00 | $40.00 | **189508** | $36.00 |
| | 0.05 lb | **82695** | $90.00 | $40.00 | **189485** | $36.00 |
| | 0.03 lb | **118808** | $79.00 | $40.00 | **189478** | $36.00 |
| | 0.02 lb | **82694** | $90.00 | $40.00 | **189460** | $36.00 |
| | 0.01 lb | **82693** | $90.00 | $40.00 | **189349** | $36.00 |
| | 0.005 lb | **82692** | $90.00 | $40.00 | **189239** | $36.00 |
| | 0.003 lb | **118804** | $90.00 | $40.00 | **189234** | $36.00 |
| | 4 oz | **82705** | $115.00 | $40.00 | **189571** | $36.00 |
| | 2 oz | **82704** | $105.00 | $40.00 | **190126** | $33.00 |
| | 1 oz | **82703** | $95.00 | $40.00 | **189486** | $36.00 |
| | 1/2 oz | **82702** | $90.00 | $40.00 | **189478** | $36.00 |
| | 1/4 oz | **82701** | $90.00 | $40.00 | **189350** | $36.00 |
| | 1/8 oz | **82700** | $90.00 | $40.00 | **194034** | $35.00 |
| | 1/16 oz | **82699** | $90.00 | $40.00 | **189237** | $36.00 |
| Leaf | 0.001 lb | **80452** | $85.00 | $40.00 | **Consult** | Consult |
| | 0.002 lb | **80453** | $85.00 | $40.00 | **Consult** | Consult |
| | 1/32 oz | **80454** | $85.00 | $40.00 | **Consult** | Consult |

*Individual leaf weights must ship in a vial.*

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **11714** | Weight glove, white, cotton | $6.00 |
| **11747** | Lifting bar | $17.00 |
| **11711** | Weight tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **36092** | Statement of Accuracy | $45.00 |
| **50038** | Vial | $4.00 |
| **80420** | Capsule | $4.00 |
| **25836** | Serial number | $16.00 |




*Screw-knob Kit*





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# Avoirdupois Individual Weights

| | Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Accredited Certificate | Part # | Price |
| Screw Knob | 50 lb | **12438** | $4,425.00 | $80.00 | **Consult** | Consult |
| | 30 lb | **12437** | $3,150.00 | $80.00 | **80743** | $211.00 |
| | 25 lb | **12436** | $2,650.00 | $80.00 | **80742** | $211.00 |
| | 20 lb | **12435** | $2,055.00 | $80.00 | **80741** | $211.00 |
| | 10 lb | **12434** | $1,160.00 | $80.00 | **80740** | $211.00 |
| | 5 lb | **12433** | $895.00 | $80.00 | **190272** | $33.00 |
| | 4 lb | **12432** | $690.00 | $80.00 | **190268** | $33.00 |
| | 3 lb | **12431** | $525.00 | $80.00 | **190265** | $33.00 |
| | 2 lb | **12430** | $485.00 | $65.00 | **190261** | $33.00 |
| | 1 lb | **12429** | $227.00 | $65.00 | **189713** | $33.00 |
| | 8 oz | **12428** | $206.00 | $40.00 | **189638** | $33.00 |
| | 0.5 lb | **12419** | $216.00 | $40.00 | **189638** | $33.00 |
| | 0.3 lb | **118521** | $137.00 | $40.00 | **189633** | $33.00 |
| | 0.2 lb | **12418** | $105.00 | $40.00 | **189569** | $36.00 |
| | 0.1 lb | **12417** | $85.00 | $40.00 | **189508** | $36.00 |
| | 0.05 lb | **12413** | $90.00 | $40.00 | **189485** | $36.00 |
| | 0.03 lb | **118517** | $90.00 | $40.00 | **189478** | $36.00 |
| | 0.02 lb | **12408** | $90.00 | $40.00 | **189460** | $36.00 |
| | 0.01 lb | **12406** | $85.00 | $40.00 | **189349** | $36.00 |
| | 0.005 lb | **12400** | $85.00 | $40.00 | **189239** | $36.00 |
| | 0.003 lb | **118513** | $85.00 | $40.00 | **189234** | $36.00 |
| | 4 oz | **12427** | $100.00 | $40.00 | **189571** | $36.00 |
| | 2 oz | **12426** | $95.00 | $40.00 | **190126** | $33.00 |
| | 1 oz | **12425** | $85.00 | $40.00 | **189486** | $36.00 |
| | 1/2 oz | **12424** | $90.00 | $40.00 | **189478** | $36.00 |
| | 1/4 oz | **12423** | $90.00 | $40.00 | **189350** | $36.00 |
| | 1/8 oz | **12422** | $90.00 | $40.00 | **194034** | $35.00 |
| | 1/16 oz | **12421** | $90.00 | $40.00 | **189237** | $36.00 |
| Leaf | 0.001 lb | **12394** | $79.00 | $40.00 | **Consult** | Consult |
| | 0.002 lb | **12396** | $79.00 | $40.00 | **Consult** | Consult |
| | 1/32 oz | **12420** | $79.00 | $40.00 | **Consult** | Consult |

*For special kits-individual weights must ship in a case.*



*Screw-knob Design Weights*



*Leaf Weights*





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# Essential Weights

## Standard Features

- ASTM Class 1 weights
- Polished stainless steel Type II design
- Sealing cavity
- Density is approximately 7.95 g/cm$^3$
- Special PVC weight case or ABS case
- Precision tweezers included
- Configurations available ideal for calibration, shift tests and sensitivity tests
- Other configurations available by special order
- Meets USP-41 requirements for intermediate checks
- Includes ISO 17025 Accredited Certificate of Calibration




*200 g PVC set shown, other sets will vary*

| Weight | Part # | Kit Price |
|---|---|---|
| **Class 0** | | |
| 2 g, 200 mg, 1 mg | **186177** | $325.00 |
| 5 g, 500 mg, 1 mg | **186178** | $350.00 |
| **Class 1** | | |
| 20 g, 2 g, 20 mg | **186179** | $299.00 |
| 100 g, 10 g, 20 mg | **186180** | $365.00 |
| 100 g, 10 g, 200 mg | **186181** | $365.00 |
| 200 g, 20 g, 20 mg | **186182** | $380.00 |
| 200 g, 20 g, 200 mg | **186183** | $380.00 |
| 200 g, 20 g, 2 g | **186184** | $399.00 |
| 500 g, 50 g, 200 mg | **186185** | $510.00 |
| 500 g, 50 g, 2 g | **186186** | $525.00 |
| 1 kg, 100 g, 2 g | **186187** | $675.00 |
| 1 kg, 100 g, 20 g | **186188** | $695.00 |
| 2 kg, 200 g, 2 g | **186189** | $985.00 |
| 2 kg, 200 g, 20 g | **186190** | $1,005.00 |
| 5 kg, 500 g, 2 g | **186191** | $1,235.00 |
| 5 kg, 500 g, 20 g | **186192** | $1,265.00 |
| 100 g, 10 g, 2 g | **191089** | $390.00 |
| 500 g, 50 g, 20 mg | **191091** | $560.00 |
| 50 g, 5 g, 200 mg | **191092** | $380.00 |
| 50 g, 5 g, 2 g | **191093** | $380.00 |

**Additional Accessories**

| Part # | Description | Price |
|---|---|---|
| **11714** | Weight glove, white cotton | $6.00 |





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# Metric Sets

Range: 500 mg

| Class 0** | | |
|---|---|---|
| Set Size | Part # | Price |
| 500 mg - 1 mg | **45933** | $1,825.00 |
| 500 mg - 1 mg* | **96359** | $1,825.00 |
| 500 mg - 10 mg | **84141** | $1,350.00 |
| 500 mg - 10 mg* | **98191** | $1,350.00 |
| 500 mg - 100 mg | **45934** | $932.00 |
| 500 mg - 100 mg* | **96360** | $932.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **34699** | $105.00 |
| **34699** | $105.00 |
| **34699** | $105.00 |
| **34699** | $105.00 |
| **34699** | $105.00 |
| **34699** | $105.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional |
|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 500 mg - 1 mg | **12445** | $563.00 | **11838** | $485.00 | **11946** | $470.00 | $470.00 | $375.00 |
| 500 mg - 1 mg* | **11910** | $563.00 | **12176** | $485.00 | **12313** | $470.00 | $470.00 | $375.00 |
| 500 mg - 10 mg | **12447** | $417.00 | **11848** | $390.00 | **11956** | $340.00 | $310.00 | $250.00 |
| 500 mg - 10 mg* | **11909** | $417.00 | **12175** | $390.00 | **12312** | $340.00 | $310.00 | $250.00 |
| 500 mg - 100 mg | **45952** | $390.00 | **45953** | $340.00 | **45954** | $273.00 | $155.00 | $125.00 |
| 500 mg - 100 mg* | **45944** | $400.00 | **45945** | $340.00 | **45946** | $273.00 | $155.00 | $125.00 |

| Replacement Cases*** | |
|---|---|
| Part # | Price |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |

*** Includes leaf weight lid and tweezer*

| Class 4 | | | Optional |
|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate |
| 500 mg - 1 mg | **12093** | $295.00 | $280.00 |
| 500 mg - 1 mg* | **12416** | $295.00 | $280.00 |
| 500 mg - 10 mg | **12103** | $222.00 | $190.00 |
| 500 mg -10 mg* | **12415** | $222.00 | $190.00 |
| 500 mg - 100 mg | **45955** | $175.00 | $95.00 |
| 500 mg - 100 mg* | **45947** | $175.00 | $95.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |
| **11763** | $74.00 |

* 5-2-2-1 configuration*



*PN 12093*
*Set includes tweezer and glove*





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# Metric Sets

Range: 500 mg

| Weight Set Contents | | | | | |
|---|---|---|---|---|---|
| **500 mg - 1 mg** | **500 mg - 1 mg*** | **500 mg - 10 mg** | **500 mg - 10 mg*** | **500 mg - 100 mg** | **500 mg - 100 mg*** |
| 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | 1 - 500 mg |
| 1 - 300 mg | 2 - 200 mg | 1 - 300 mg | 2 - 200 mg | 1 - 300 mg | 2 - 200 mg |
| 1 - 200 mg | 1 - 100 mg | 1 - 200 mg | 1 - 100 mg | 1 - 200 mg | 1 - 100 mg |
| 1 - 100 mg | 1 - 50 mg | 1 - 100 mg | 1 - 50 mg | 1 - 100 mg | - |
| 1 - 50 mg | 2 - 20 mg | 1 - 50 mg | 2 - 20 mg | - | - |
| 1 - 30 mg | 1 - 10 mg | 1 - 30 mg | 1 - 10 mg | - | - |
| 1 - 20 mg | 1 - 5 mg | 1 - 20 mg | - | - | - |
| 1 - 10 mg | 2 - 2 mg | 1 - 10 mg | - | - | - |
| 1 - 5 mg | 1 - 1 mg | - | - | - | - |
| 1 - 3 mg | - | - | - | - | - |
| 1 - 2 mg | - | - | - | - | - |
| 1 - 1 mg | - | - | - | - | - |
| **Piece Count** | | | | | |
| 12 | 12 | 8 | 8 | 4 | 4 |
| **Total Weight** | | | | | |
| 1.221 g | 1.11 g | 1.21 g | 1.11 g | 1.1 g | 0.8 g |
| **Part #** | | | | | |
| **45933**-Class 0 | **96359**-Class 0 | **84141**-Class 0 | **98191**-Class 0 | **45934**-Class 0 | **96360**-Class 0 |
| **12445**-Class 1 | **11910**-Class 1 | **12447**-Class 1 | **11909**-Class 1 | **45952**-Class 1 | **45944**-Class 1 |
| **11838**-Class 2 | **12176**-Class 2 | **11848**-Class 2 | **12175**-Class 2 | **45953**-Class 2 | **45945**-Class 2 |
| **11946**-Class 3 | **12313**-Class 3 | **11956**-Class 3 | **12312**-Class 3 | **45954**-Class 3 | **45946**-Class 3 |
| **12093**-Class 4 | **12416**-Class 4 | **12103**-Class 4 | **12415**-Class 4 | **45955**-Class 4 | **45947**-Class 4 |

** 5-2-2-1 configuration*

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |





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# Metric Sets

Range: 20 g

| Class 0** | | |
|---|---|---|
| Set Size | Part # | Price |
| 20 g - 1 mg | **84154** | $2,495.00 |
| 20 g - 5 mg | **84149** | $2,665.00 |
| 20 g - 10 mg | **84148** | $2,485.00 |
| 20 g - 100 mg | **84146** | $1,865.00 |
| 20 g - 1 g | **84155** | $1,345.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 20 g - 1 mg | **12448** | $973.00 | **11853** | $810.00 | **11961** | $735.00 | $705.00 | $560.00 | **11596** | $153.00 |
| 20 g - 1 mg* | **11908** | $973.00 | **12174** | $810.00 | **12311** | $735.00 | $705.00 | $560.00 | **11588** | $153.00 |
| 20 g - 5 mg | **12450** | $835.00 | **11858** | $720.00 | **11966** | $660.00 | $595.00 | $470.00 | **11596** | $153.00 |
| 20 g - 5 mg* | **11907** | $835.00 | **12172** | $720.00 | **12309** | $660.00 | $595.00 | $470.00 | **11588** | $153.00 |
| 20 g - 10 mg | **12451** | $800.00 | **11863** | $655.00 | **11971** | $595.00 | $545.00 | $440.00 | **11596** | $153.00 |
| 20 g - 10 mg* | **11906** | $800.00 | **12171** | $655.00 | **22188** | $595.00 | $545.00 | $440.00 | **11588** | $153.00 |
| 20 g - 100 mg | **84145** | $680.00 | **84144** | $572.00 | **84143** | $535.00 | $390.00 | $310.00 | **11596** | $153.00 |
| 20 g - 100 mg* | **11905** | $680.00 | **12170** | $572.00 | **22187** | $535.00 | $390.00 | $310.00 | **11588** | $153.00 |
| 20 g - 1 g | **12452** | $563.00 | **11868** | $485.00 | **11976** | $423.00 | $235.00 | $190.00 | **11596** | $153.00 |
| 20 g - 1 g* | **11904** | $563.00 | **12169** | $485.00 | **22186** | $423.00 | $235.00 | $190.00 | **11588** | $153.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 20 g - 1 mg | **12108** | $556.00 | $430.00 | **11596** | $153.00 |
| 20 g - 1 mg* | **12414** | $556.00 | $430.00 | **11588** | $153.00 |
| 20 g - 5 mg | **12113** | $515.00 | $355.00 | **11596** | $153.00 |
| 20 g - 5 mg* | **12412** | $515.00 | $355.00 | **11588** | $153.00 |
| 20 g - 10 mg | **12118** | $495.00 | $325.00 | **11596** | $153.00 |
| 20 g - 10 mg* | **12411** | $495.00 | $325.00 | **11588** | $153.00 |
| 20 g - 100 mg | **84142** | $412.00 | $235.00 | **11596** | $153.00 |
| 20 g - 100 mg* | **12410** | $412.00 | $235.00 | **11588** | $153.00 |
| 20 g - 1 g | **12123** | $335.00 | $140.00 | **11596** | $153.00 |
| 20 g - 1 g* | **12409** | $335.00 | $140.00 | **11588** | $153.00 |

** 5-2-2-1 configuration*



*PN 12108*
*Set includes lifting device and gloves*





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# Metric Sets

Range: 20 g

| Weight Set Contents | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **20 g - 1 mg** | **20 g - 1 mg*** | **20 g - 5 mg** | **20 g - 5 mg*** | **20 g - 10 mg** | **20 g - 10 mg*** | **20 g - 100 mg** | **20 g - 100 mg*** | **20 g - 1 g** | **20 g - 1 g*** |
| 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 20 g |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g |
| 1 - 3 g | 2 - 2 g | 1 - 3 g | 2 - 2 g | 1 - 3 g | 2 - 2 g | 1 - 3 g | 2 - 2 g | 1 - 3 g | 2 - 2 g |
| 1 - 2 g | 1 - 1 g | 1 - 2 g | 1 - 1 g | 1 - 2 g | 1 - 1 g | 1 - 2 g | 1 - 1 g | 1 - 2 g | 1 - 1 g |
| 1 - 1 g | 1 - 500 mg | 1 - 1 g | 1 - 500 mg | 1 - 1 g | 1 - 500 mg | 1 - 1 g | 1 - 500 mg | 1 - 1 g | - |
| 1 - 500 mg | 2 - 200 mg | 1 - 500 mg | 2 - 200 mg | 1 - 500 mg | 2 - 200 mg | 1 - 500 mg | 2 - 200 mg | - | - |
| 1 - 300 mg | 1 - 100 mg | 1 - 300 mg | 1 - 100 mg | 1 - 300 mg | 1 - 100 mg | 1 - 300 mg | 1 - 100 mg | - | - |
| 1 - 200 mg | 1 - 50 mg | 1 - 200 mg | 1 - 50 mg | 1 - 200 mg | 1 - 50 mg | 1 - 200 mg | - | - | - |
| 1 - 100 mg | 2 - 20 mg | 1 - 100 mg | 2 - 20 mg | 1 - 100 mg | 2 - 20 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | 1 - 10 mg | 1 - 50 mg | 1 - 10 mg | 1 - 50 mg | 1 - 10 mg | - | - | - | - |
| 1 - 30 mg | 1 - 5 mg | 1 - 30 mg | 1 - 5 mg | 1 - 30 mg | - | - | - | - | - |
| 1 - 20 mg | 2 - 2 mg | 1 - 20 mg | - | 1 - 20 mg | - | - | - | - | - |
| 1 - 10 mg | 1 - 1 mg | 1 - 10 mg | - | 1 - 10 mg | - | - | - | - | - |
| 1 - 5 mg | - | 1 - 5 mg | - | - | - | - | - | - | - |
| 1 - 3 mg | - | - | - | - | - | - | - | - | - |
| 1 - 2 mg | - | - | - | - | - | - | - | - | - |
| 1 - 1 mg | - | - | - | - | - | - | - | - | - |
| **Piece Count** | | | | | | | | | |
| 18 | 18 | 15 | 15 | 14 | 14 | 10 | 10 | 6 | 6 |
| **Total Weight** | | | | | | | | | |
| 42.221 g | 42.221 g | 42.215 g | 42.215 g | 42.421 g | 41.1 g | 41 g | 41 g | 42.105 g | 40 g |
| **Part #** | | | | | | | | | |
| **84154**-Class 0 | - | **84149**-Class 0 | - | **84148**-Class 0 | - | **84146**-Class 0 | - | **84155**-Class 0 | - |
| **12448**-Class 1 | **11908**-Class 1 | **12450**-Class 1 | **11907**-Class 1 | **12451**-Class 1 | **11906**-Class 1 | **84145**-Class 1 | **11905**-Class 1 | **12452**-Class 1 | **11904**-Class 1 |
| **11853**-Class 2 | **12174**-Class 2 | **11858**-Class 2 | **12172**-Class 2 | **11863**-Class 2 | **12171**-Class 2 | **84144**-Class 2 | **12170**-Class 2 | **11868**-Class 2 | **12169**-Class 2 |
| **11961**-Class 3 | **12311**-Class 3 | **11966**-Class 3 | **12309**-Class 3 | **11971**-Class 3 | **22188**-Class 3 | **84143**-Class 3 | **22187**-Class 3 | **11976**-Class 3 | **22186**-Class 3 |
| **12108**-Class 4 | **12414**-Class 4 | **12113**-Class 4 | **12412**-Class 4 | **12118**-Class 4 | **12411**-Class 4 | **84142**-Class 4 | **12410**-Class 4 | **12123**-Class 4 | **12409**-Class 4 |

** 5-2-2-1 configuration*

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |





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# Metric Sets

Range: 50 g

| Class 0** | | |
|---|---|---|
| **Set Size** | **Part #** | **Price** |
| 50 g - 1 mg | **84177** | $3,225.00 |
| 50 g - 5 mg | **84176** | $2,997.00 |
| 50 g - 10 mg | **84164** | $2,714.00 |
| 50 g - 100 mg | **84163** | $2,065.00 |
| 50 g - 1 g | **84178** | $1,615.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Part #** | **Price** | **Part #** | **Price** | **Accredited Certificate** | **Non-accredited Certificate** | **Part #** | **Price** |
| 50 g - 1 mg | **12453** | $958.00 | **11873** | $840.00 | **11982** | $790.00 | $790.00 | $630.00 | **11596** | $153.00 |
| 50 g - 1 mg* | **11903** | $958.00 | **12167** | $840.00 | **22288** | $790.00 | $790.00 | $630.00 | **11588** | $153.00 |
| 50 g - 5 mg | **12454** | $895.00 | **11879** | $767.00 | **11988** | $695.00 | $670.00 | $530.00 | **11596** | $153.00 |
| 50 g - 5 mg* | **11902** | $895.00 | **12165** | $767.00 | **22182** | $695.00 | $670.00 | $530.00 | **11588** | $153.00 |
| 50 g - 10 mg | **12455** | $840.00 | **11880** | $730.00 | **11989** | $670.00 | $630.00 | $500.00 | **11596** | $153.00 |
| 50 g - 10 mg* | **11900** | $840.00 | **12163** | $730.00 | **22181** | $670.00 | $630.00 | $500.00 | **11588** | $153.00 |
| 50 g - 100 mg | **84159** | $730.00 | **84160** | $585.00 | **84161** | $556.00 | $470.00 | $375.00 | **11596** | $153.00 |
| 50 g - 100 mg* | **11899** | $730.00 | **12162** | $585.00 | **12300** | $556.00 | $470.00 | $375.00 | **11588** | $153.00 |
| 50 g - 1 g | **12456** | $603.00 | **11890** | $525.00 | **12004** | $480.00 | $310.00 | $250.00 | **11596** | $153.00 |
| 50 g - 1 g* | **11898** | $613.00 | **12161** | $525.00 | **12299** | $480.00 | $310.00 | $250.00 | **11588** | $153.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** | **Part #** | **Price** |
| 50 g - 1 mg | **12128** | $670.00 | $475.00 | **11596** | $153.00 |
| 50 g - 1 mg* | **12407** | $670.00 | $475.00 | **11588** | $153.00 |
| 50 g - 5 mg | **12134** | $610.00 | $400.00 | **11596** | $153.00 |
| 50 g - 5 mg* | **12405** | $610.00 | $400.00 | **11588** | $153.00 |
| 50 g - 10 mg | **12135** | $587.00 | $380.00 | **11596** | $153.00 |
| 50 g - 10 mg* | **12404** | $587.00 | $380.00 | **11588** | $153.00 |
| 50 g - 100 mg | **84162** | $505.00 | $280.00 | **11596** | $153.00 |
| 50 g - 100 mg* | **12403** | $505.00 | $280.00 | **11588** | $153.00 |
| 50 g - 1 g | **12150** | $423.00 | $190.00 | **11596** | $153.00 |
| 50 g - 1 g* | **12402** | $423.00 | $190.00 | **11588** | $153.00 |

** 5-2-2-1 configuration*



*PN 12453*
*Set includes lifting device and gloves*





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# Metric Sets

Range: 50 g

| Weight Set Contents | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **50 g - 1 mg** | **50 g - 1 mg*** | **50 g - 5 mg** | **50 g - 5 mg*** | **50 g - 10 mg** | **50 g - 10 mg*** | **50 g - 100 mg** | **50 g - 100 mg*** | **50 g - 1 g** | **50 g - 1 g*** |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g |
| 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g |
| 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g |
| 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g |
| 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g |
| 1 - 2 g | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | - |
| 1 - 1 g | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | - |
| 1 - 500 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | - | - |
| 1 - 300 mg | 1 - 50 mg | 1 - 300 mg | 1 - 50 mg | 1 - 300 mg | 1 - 50 mg | 1 - 300 mg | - | - | - |
| 1 - 200 mg | 2 - 20 mg | 1 - 200 mg | 2 - 20 mg | 1 - 200 mg | 2 - 20 mg | 1 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 10 mg | 1 - 100 mg | 1 - 10 mg | 1 - 100 mg | 1 - 10 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | 1 - 5 mg | 1 - 50 mg | 1 - 5 mg | 1 - 50 mg | - | - | - | - | - |
| 1 - 30 mg | 2 - 2 mg | 1 - 30 mg | - | 1 - 30 mg | - | - | - | - | - |
| 1 - 20 mg | 1 - 1 mg | 1 - 20 mg | - | 1 - 20 mg | - | - | - | - | - |
| 1 - 10 mg | - | 1 - 10 mg | - | 1 - 10 mg | - | - | - | - | - |
| 1 - 5 mg | - | 1 - 5 mg | - | - | - | - | - | - | - |
| 1 - 3 mg | - | - | - | - | - | - | - | - | - |
| 1 - 2 mg | - | - | - | - | - | - | - | - | - |
| 1 - 1 mg | - | - | - | - | - | - | - | - | - |
| **Piece Count** | | | | | | | | | |
| 20 | 20 | 17 | 17 | 16 | 16 | 12 | 12 | 8 | 8 |
| **Total Weight** | | | | | | | | | |
| 122.221 g | 111.11 g | 122.215 g | 111.105 g | 122.21 g | 111.1 g | 122.1 g | 111 g | 121 g | 110 g |
| **Part #** | | | | | | | | | |
| **84177**-Class 0 | - | **84176**-Class 0 | - | **84164**-Class 0 | - | **84163**-Class 0 | - | **84178**-Class 0 | - |
| **12453**-Class 1 | **11903**-Class 1 | **12454**-Class 1 | **11902**-Class 1 | **12455**-Class 1 | **11900**-Class 1 | **84159**-Class 1 | **11899**-Class 1 | **12456**-Class 1 | **11898**-Class 1 |
| **11873**-Class 2 | **12167**-Class 2 | **11879**-Class 2 | **12165**-Class 2 | **11880**-Class 2 | **12163**-Class 2 | **84160**-Class 2 | **12162**-Class 2 | **11890**-Class 2 | **12161**-Class 2 |
| **11982**-Class 3 | **22288**-Class 3 | **11988**-Class 3 | **22182**-Class 3 | **11989**-Class 3 | **22181**-Class 3 | **84161**-Class 3 | **12300**-Class 3 | **12004**-Class 3 | **12299**-Class 3 |
| **12128**-Class 4 | **12407**-Class 4 | **12134**-Class 4 | **12405**-Class 4 | **12135**-Class 4 | **12404**-Class 4 | **84162**-Class 4 | **12403**-Class 4 | **12150**-Class 4 | **12402**-Class 4 |

** 5-2-2-1 configuration*

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |



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# Metric Sets

Range: 100 g

| Class 0** | | |
|---|---|---|
| Set Size | Part # | Price |
| 100 g - 1 mg | **45930** | $3,540.00 |
| 100 g - 5 mg | **84211** | $3,085.00 |
| 100 g - 10 mg | **84212** | $2,860.00 |
| 100 g - 100 mg | **45931** | $2,370.00 |
| 100 g - 1 g | **45932** | $1,720.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |
| **49503** | $211.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 100 g - 1 mg | **12457** | $1,035.00 | **11901** | $900.00 | **12018** | $855.00 | $830.00 | $620.00 | **11596** | $153.00 |
| 100 g - 1 mg* | **11897** | $1,035.00 | **12160** | $900.00 | **12298** | $855.00 | $830.00 | $620.00 | **11588** | $153.00 |
| 100 g - 5 mg | **11911** | $922.00 | **12158** | $805.00 | **12031** | $757.00 | $705.00 | $540.00 | **11596** | $153.00 |
| 100 g - 5 mg* | **11896** | $922.00 | **-** | - | **12296** | $757.00 | $705.00 | $540.00 | **11588** | $153.00 |
| 100 g - 10 mg | **12460** | $900.00 | **11912** | $790.00 | **12035** | $752.00 | $670.00 | $530.00 | **11596** | $153.00 |
| 100 g - 10 mg* | **11895** | $900.00 | **12157** | $790.00 | **12295** | $752.00 | $670.00 | $530.00 | **11588** | $153.00 |
| 100 g - 100 mg | **45956** | $735.00 | **45957** | $767.00 | **45958** | $715.00 | $510.00 | $405.00 | **11596** | $153.00 |
| 100 g - 100 mg* | **45948** | $735.00 | **45949** | $767.00 | **45950** | $715.00 | $510.00 | $405.00 | **11588** | $153.00 |
| 100 g - 1 g | **12461** | $660.00 | **11913** | $660.00 | **12045** | $635.00 | $355.00 | $280.00 | **11596** | $153.00 |
| 100 g - 1 g* | **11894** | $660.00 | **12156** | $650.00 | **12294** | $635.00 | $355.00 | $280.00 | **11588** | $153.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 100 g - 1 mg | **12164** | $775.00 | $505.00 | **11596** | $153.00 |
| 100 g - 1 mg* | **12401** | $775.00 | $505.00 | **11588** | $153.00 |
| 100 g - 5 mg | **12177** | $757.00 | $430.00 | **11596** | $153.00 |
| 100 g - 5 mg* | **12399** | $757.00 | $430.00 | **11588** | $153.00 |
| 100 g - 10 mg | **12181** | $752.00 | $395.00 | **11596** | $153.00 |
| 100 g - 10 mg* | **12398** | $752.00 | $395.00 | **11588** | $153.00 |
| 100 g - 100 mg | **45959** | $630.00 | $305.00 | **11596** | $153.00 |
| 100 g - 100 mg* | **45951** | $630.00 | $305.00 | **11588** | $153.00 |
| 100 g - 1 g | **12191** | $550.00 | $215.00 | **11596** | $153.00 |
| 100 g - 1 g* | **12397** | $550.00 | $215.00 | **11588** | $153.00 |

** 5-2-2-1 configuration*



*PN 12457*
*Set includes lifting device and gloves*





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# Metric Sets

Range: 100 g

| Weight Set Contents | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **100 g - 1 mg** | **100 g - 1 mg*** | **100 g - 5 mg** | **100 g - 5 mg*** | **100 g - 10 mg** | **100 g -10 mg*** | **100 g - 100 mg** | **100 g - 100 mg*** | **100 g - 1 g** | **100 g - 1 g*** |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g |
| 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g |
| 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g |
| 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g |
| 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g |
| 1 - 2 g | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | - |
| 1 - 1 g | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | - |
| 1 - 500 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | - | - |
| 1 - 300 mg | 1 - 50 mg | 1 - 300 mg | 1 - 50 mg | 1 - 300 mg | 1 - 50 mg | 1 - 300 mg | - | - | - |
| 1 - 200 mg | 2 - 20 mg | 1 - 200 mg | 2 - 20 mg | 1 - 200 mg | 2 - 20 mg | 1 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 10 mg | 1 - 100 mg | 1 - 10 mg | 1 - 100 mg | 1 - 10 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | 1 - 5 mg | 1 - 50 mg | 1 - 5 mg | 1 - 50 mg | - | - | - | - | - |
| 1 - 30 mg | 2 - 2 mg | 1 - 30 mg | - | 1 - 30 mg | - | - | - | - | - |
| 1 - 20 mg | 1 - 1 mg | 1 - 20 mg | - | 1 - 20 mg | - | - | - | - | - |
| 1 - 10 mg | - | 1 - 10 mg | - | 1 - 10 mg | - | - | - | - | - |
| 1 - 5 mg | - | 1 - 5 mg | - | - | - | - | - | - | - |
| 1 - 3 mg | - | - | - | - | - | - | - | - | - |
| 1 - 2 mg | - | - | - | - | - | - | - | - | - |
| 1 - 1 mg | - | - | - | - | - | - | - | - | - |
| **Piece Count** | | | | | | | | | |
| 21 | 21 | 18 | 18 | 17 | 17 | 13 | 13 | 9 | 9 |
| **Total Weight** | | | | | | | | | |
| 222.221 g | 211.11 g | 222.215 g | 211.085 g | 222.21 g | 211.1 g | 222.1 g | 211 g | 221 g | 210 g |
| **Part #** | | | | | | | | | |
| **45930**-Class 0 | - | **84211**-Class 0 | - | **84212**-Class 0 | - | **45931**-Class 0 | - | **45932**-Class 0 | - |
| **12457**-Class 1 | **11897**-Class 1 | **11911**-Class 1 | **11896**-Class 1 | **12460**-Class 1 | **11895**-Class 1 | **45956**-Class 1 | **45948**-Class 1 | **12461**-Class 1 | **11894**-Class 1 |
| **11901**-Class 2 | **12160**-Class 2 | **12158**-Class 2 | - | **11912**-Class 2 | **12157**-Class 2 | **45957**-Class 2 | **45949**-Class 2 | **11913**-Class 2 | **12156**-Class 2 |
| **12018**-Class 3 | **12298**-Class 3 | **12031**-Class 3 | **12296**-Class 3 | **12035**-Class 3 | **12295**-Class 3 | **45958**-Class 3 | **45950**-Class 3 | **12045**-Class 3 | **12294**-Class 3 |
| **12164**-Class 4 | **12401**-Class 4 | **12177**-Class 4 | **12399**-Class 4 | **12181**-Class 4 | **12398**-Class 4 | **45959**-Class 4 | **45951**-Class 4 | **12191**-Class 4 | **12397**-Class 4 |

** 5-2-2-1 configuration*

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |





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# Metric Sets

Range: 200 g

| Class 0** | | |
|---|---|---|
| **Set Size** | **Part #** | **Price** |
| 200 g - 1 mg | **45927** | $3,910.00 |
| 200 g - 1 mg* | **156298** | $3,910.00 |
| (2) 200 g - 1 mg* | **87039** | $4,355.00 |
| 200 g - 10 mg | **84213** | $3,520.00 |
| (2) 200 g - 10 mg* | **87038** | $3,780.00 |
| 200 g - 100 mg | **45928** | $3,055.00 |
| (2) 200 g - 100 mg* | **87037** | $3,265.00 |
| 200 g - 1 g | **45929** | $2,045.00 |
| (2) 200 g - 1 g* | **87040** | $2,430.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional |
|---|---|---|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Part #** | **Price** | **Part #** | **Price** | **Accredited Certificate** | **Non-accredited Certificate** |
| 200 g - 1 mg | **12462** | $1,100.00 | **11914** | $1,055.00 | **12051** | $1,045.00 | $930.00 | $660.00 |
| 200 g - 1 mg* | **156299** | $1,100.00 | **156300** | $1,055.00 | **156301** | $1,045.00 | $930.00 | $660.00 |
| (2) 200 g - 1 mg* | **87053** | $1,165.00 | **87054** | $1,110.00 | **87055** | $1,100.00 | $1,020.00 | $675.00 |
| 200 g - 10 mg | **12467** | $1,010.00 | **11916** | $865.00 | **12064** | $840.00 | $770.00 | $535.00 |
| (2) 200 g - 10 mg* | **87049** | $1,155.00 | **87050** | $1,075.00 | **87051** | $1,050.00 | $870.00 | $625.00 |
| 200 g - 100 mg | **45960** | $970.00 | **45961** | $830.00 | **45962** | $767.00 | $610.00 | $450.00 |
| (2) 200 g - 100 mg* | **87045** | $1,118.00 | **87046** | $1,050.00 | **87047** | $1,045.00 | $700.00 | $495.00 |
| 200 g - 1 g | **12468** | $820.00 | **11917** | $767.00 | **12065** | $762.00 | $450.00 | $325.00 |
| 200 g - 1 g* | **11893** | $820.00 | **12154** | $767.00 | **12292** | $762.00 | $450.00 | $325.00 |
| (2) 200 g - 1 g* | **87057** | $932.00 | **87058** | $795.00 | **87059** | $790.00 | $540.00 | $370.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

| Class 4 | | | Optional |
|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** |
| 200 g - 1 mg | **12197** | $820.00 | $530.00 |
| 200 g - 1 mg* | **156302** | $820.00 | $530.00 |
| (2) 200 g - 1 mg* | **87056** | $895.00 | $560.00 |
| 200 g - 10 mg | **12210** | $780.00 | $440.00 |
| (2) 200 g - 10 mg* | **87052** | $855.00 | $470.00 |
| 200 g - 100 mg | **45963** | $700.00 | $340.00 |
| (2) 200 g - 100 mg* | **87048** | $820.00 | $375.00 |
| 200 g - 1 g | **12211** | $595.00 | $245.00 |
| 200 g - 1 g* | **12395** | $595.00 | $245.00 |
| (2) 200 g - 1 g* | **87060** | $695.00 | $280.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

** 5-2-2-1 configuration*



*PN 12462*
*Set includes lifting device and gloves*





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# Metric Sets

Range: 200 g

| Weight Set Contents | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 200 g - 1 mg | 200 g - 1 mg* | (2) 200 g - 1 mg* | 200 g - 10 mg | (2) 200 g - 10 mg* | 200 g - 100 mg | (2) 200 g - 100 mg* | 200 g - 1 g | 200 g - 1 g* | (2) 200 g - 1 g* |
| 1 - 200 g | 1 - 200 g | 2 - 200 g | 1 - 200 g | 2 - 200 g | 1 - 200 g | 2 - 200 g | 1 - 200 g | 1 - 200 g | 2 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 1 - 30 g | 2 - 20 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 1 - 30 g | 2 - 20 g | 2 - 20 g |
| 1 - 20 g | 1 - 10 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 20 g | 1 - 10 g | 1 - 10 g |
| 1 - 10 g | 1 - 5 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 10 g | 1 - 5 g | 1 - 5 g |
| 1 - 5 g | 2 - 2 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 1 - 5 g | 2 - 2 g | 2 - 2 g |
| 1 - 3 g | 1 - 1 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 3 g | 1 - 1 g | 1 - 1 g |
| 1 - 2 g | 1 - 500 mg | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | 1 - 500 mg | 1 - 2 g | - | - |
| 1 - 1 g | 2 - 200 mg | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | 2 - 200 mg | 1 - 1 g | - | - |
| 1 - 500 mg | 1 - 100 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | 1 - 500 mg | 1 - 100 mg | - | - | - |
| 1 - 300 mg | 1 - 50 mg | 1 - 50 mg | 1 - 300 mg | 1 - 50 mg | 1 - 300 mg | - | - | - | - |
| 1 - 200 mg | 2 - 20 mg | 2 - 20 mg | 1 - 200 mg | 2 - 20 mg | 1 - 200 mg | - | - | - | - |
| 1 - 100 mg | 1 - 10 mg | 1 - 10 mg | 1 - 100 mg | 1 - 10 mg | 1 - 100 mg | - | - | - | - |
| 1 - 50 mg | 1 - 5 mg | 1 - 5 mg | 1 - 50 mg | - | - | - | - | - | - |
| 1 - 30 mg | 2 - 2 mg | 2 - 2 mg | 1 - 30 mg | - | - | - | - | - | - |
| 1 - 20 mg | 1 - 1 mg | 1 - 1 mg | 1 - 20 mg | - | - | - | - | - | - |
| 1 - 10 mg | - | - | 1 - 10 mg | - | - | - | - | - | - |
| 1 - 5 mg | - | - | - | - | - | - | - | - | - |
| 1 - 3 mg | - | - | - | - | - | - | - | - | - |
| 1 - 2 mg | - | - | - | - | - | - | - | - | - |
| 1 - 1 mg | - | - | - | - | - | - | - | - | - |
| **Piece Count** | | | | | | | | | |
| 22 | 22 | 23 | 18 | 19 | 14 | 15 | 10 | 10 | 11 |
| **Total Weight** | | | | | | | | | |
| 422.221 g | 422.221 g | 622.221 g | 422.210 g | 611.1 g | 422.19 g | 611 g | 421 g | 410 g | 610 g |
| **Part #** | | | | | | | | | |
| **45927**-Class 0 | **156298**-Class 0 | **87039**-Class 0 | **84213**-Class 0 | **87038**-Class 0 | **45928**-Class 0 | **87037**-Class 0 | **45929**-Class 0 | – | **87040**-Class 0 |
| **12462**-Class 1 | **156299**-Class 1 | **87053**-Class 1 | **12467**-Class 1 | **87049**-Class 1 | **45960**-Class 1 | **87045**-Class 1 | **12468**-Class 1 | **11893**-Class 1 | **87057**-Class 1 |
| **11914**-Class 2 | **156300**-Class 2 | **87054**-Class 2 | **11916**-Class 2 | **87050**-Class 2 | **45961**-Class 2 | **87046**-Class 2 | **11917**-Class 2 | **12154**-Class 2 | **87058**-Class 2 |
| **12051**-Class 3 | **156301**-Class 3 | **87055**-Class 3 | **12064**-Class 3 | **87051**-Class 3 | **45962**-Class 3 | **87047**-Class 3 | **12065**-Class 3 | **12292**-Class 3 | **87059**-Class 3 |
| **12197**-Class 4 | **156302**-Class 4 | **87056**-Class 4 | **12210**-Class 4 | **87052**-Class 4 | **45963**-Class 4 | **87048**-Class 4 | **12211**-Class 4 | **12395**-Class 4 | **87060**-Class 4 |

| Case Insert Class 0 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 200 g - 1 mg | **50431** | $105.00 |
| (2) 200 g - 1 mg* | **84473** | $340.00 |
| (2) 200 g - 10 mg* | **84473** | $340.00 |
| (2) 200 g - 100 mg* | **84473** | $340.00 |
| 200 g - 1 g | **50430** | $105.00 |
| (2) 200 - 1 g* | **84472** | $340.00 |

| Case Insert Class 1 - 4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 200 g - 1 mg | **11601** | $168.00 |
| (2) 200 g - 1 g* | **84465** | $168.00 |
| (2) 200 g - 1 mg* | **84464** | $168.00 |
| 200 g - 1 g* | **11587** | $168.00 |

** 5-2-2-1 configuration*

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |





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# Metric Sets

Range: 300 g and 500 g

| Class 0** | | |
|---|---|---|
| **Set Size** | **Part #** | **Price** |
| 500 g - 1 mg | **45923** | $4,899.00 |
| 500 g - 100 mg | **45924** | $3,860.00 |
| 500 g - 1 g | **45925** | $3,195.00 |
| 500 g - 100 g | **45926** | $2,005.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

*** Accredited Certificate included, Statement of Accuracy not available Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Part #** | **Price** | **Part #** | **Price** | **Accredited Certificate** | **Non-accredited Certificate** | **Part #** | **Price** |
| 300 g - 1 g | **11892** | $1,375.00 | **12152** | $1,267.00 | **12290** | $1,210.00 | $540.00 | $370.00 | **34645** | $283.00 |
| 500 g - 1 mg | **12469** | $2,280.00 | **11918** | $1,760.00 | **12066** | $1,720.00 | $1,120.00 | $715.00 | **34645** | $283.00 |
| 500 g - 100 mg | **45964** | $2,220.00 | **45965** | $1,660.00 | **45966** | $1,570.00 | $800.00 | $535.00 | **34645** | $283.00 |
| 500 g - 1 g | **12472** | $1,499.00 | **11921** | $1,375.00 | **12069** | $1,340.00 | $640.00 | $410.00 | **34645** | $283.00 |
| 500 g - 1 g* | **11891** | $1,499.00 | **12151** | $1,375.00 | **12289** | $1,340.00 | $640.00 | $410.00 | **34645** | $283.00 |
| 500 g - 100 g | **45968** | $1,060.00 | **45969** | $970.00 | **45970** | $953.00 | $325.00 | $165.00 | **34645** | $283.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** | **Part #** | **Price** |
| 300 g - 1 g | **12393** | $1,125.00 | $280.00 | **34645** | $283.00 |
| 500 g - 1 mg | **12212** | $1,575.00 | $605.00 | **34645** | $283.00 |
| 500 g - 100 mg | **45967** | $1,405.00 | $375.00 | **34645** | $283.00 |
| 500 g - 1 g | **12215** | $1,235.00 | $310.00 | **34645** | $283.00 |
| 500 g - 1 g* | **12392** | $1,235.00 | $310.00 | **34645** | $283.00 |
| 500 g - 100 g | **45971** | $815.00 | $125.00 | **34645** | $283.00 |

** 5-2-2-1 configuration*



*PN 12151*
*Set includes lifting device and gloves (500 g to 1 g)*





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# Metric Sets

Range: 300 g and 500 g

| Weight Set Contents | | | | | |
|---|---|---|---|---|---|
| **300 g - 1 g** | **500 g - 1 mg** | **500 g - 100 mg** | **500 g - 1 g** | **500 g - 1 g*** | **500 g - 100 g** |
| 1 - 300 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 1 - 200 g | 1 - 300 g | 1 - 300 g | 1 - 300 g | 2 - 200 g | 1 - 300 g |
| 1 - 100 g | 1 - 200 g | 1 - 200 g | 1 - 200 g | 1 - 100 g | 1 - 200 g |
| 1 - 50 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 50 g | 1 - 100 g |
| 1 - 30 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 2 - 20 g | - |
| 1 - 20 g | 1 - 30 g | 1 - 30 g | 1 - 30 g | 1 - 10 g | - |
| 1 - 10 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 5 g | - |
| 1 - 5 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 2 - 2 g | - |
| 1 - 3 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 1 g | - |
| 1 - 2 g | 1 - 3 g | 1 - 3 g | 1 - 3 g | - | - |
| 1 - 1 g | 1 - 2 g | 1 - 2 g | 1 - 2 g | - | - |
| - | 1 - 1 g | 1 - 1 g | 1 - 1 g | - | - |
| - | 1 - 500 mg | 1 - 500 mg | - | - | - |
| - | 1 - 300 mg | 1 - 300 mg | - | - | - |
| - | 1 - 200 mg | 1 - 200 mg | - | - | - |
| - | 1 - 100 mg | 1 - 100 mg | - | - | - |
| - | 1 - 50 mg | - | - | - | - |
| - | 1 - 30 mg | - | - | - | - |
| - | 1 - 20 mg | - | - | - | - |
| - | 1 - 10 mg | - | - | - | - |
| - | 1 - 5 mg | - | - | - | - |
| - | 1 - 3 mg | - | - | - | - |
| - | 1 - 2 mg | - | - | - | - |
| - | 1 - 1 mg | - | - | - | - |
| **Piece Count** | | | | | |
| 11 | 24 | 16 | 12 | 12 | 4 |
| **Total Weight** | | | | | |
| 721 g | 1.222221 kg | 1.2221 kg | 1.221 kg | 1.10 kg | 1.1 kg |
| **Part #** | | | | | |
| - | **45923**-Class 0 | **45924**-Class 0 | **45925**-Class 0 | - | **45926**-Class 0 |
| **11892**-Class 1 | **12469**-Class 1 | **45964**-Class 1 | **12472**-Class 1 | **11891**-Class 1 | **45968**-Class 1 |
| **12152**-Class 2 | **11918**-Class 2 | **45965**-Class 2 | **11921**-Class 2 | **12151**-Class 2 | **45969**-Class 2 |
| **12290**-Class 3 | **12066**-Class 3 | **45966**-Class 3 | **12069**-Class 3 | **12289**-Class 3 | **45970**-Class 3 |
| **12393**-Class 4 | **12212**-Class 4 | **45967**-Class 4 | **12215**-Class 4 | **12392**-Class 4 | **45971**-Class 4 |

** 5-2-2-1 configuration*

| Case Insert Class 0 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 500 g - 1 mg | **49500** | $222.00 |
| 500 g - 100 g | **49501** | $175.00 |

| Case Insert Class 1 - 4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 300 g - 1 g | **11586** | $168.00 |
| 500 g - 1 mg | **11602** | $168.00 |
| 500 g - 1 g* | **11585** | $168.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |





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# Metric Sets

Range: 1 kg

| Class 0** | | |
|---|---|---|
| Set Size | Part # | Price |
| 1 kg - 1 mg | **45919** | $5,660.00 |
| 1 kg - 100 mg | **45920** | $4,670.00 |
| 1 kg - 1 g | **45921** | $3,925.00 |
| 1 kg - 100 g | **45922** | $2,865.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **50437** | $1,555.00 |
| **50437** | $1,555.00 |
| **50437** | $1,555.00 |
| **50437** | $1,555.00 |

*** Accredited Certificate included, Statement of Accuracy not available Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 1 kg - 1 mg | **12473** | $2,705.00 | **11922** | $2,485.00 | **12070** | $2,465.00 | $1,210.00 | $765.00 | **11603** | $1,555.00 |
| 1 kg - 100 mg | **45972** | $2,655.00 | **45973** | $2,465.00 | **45974** | $2,415.00 | $900.00 | $525.00 | **11603** | $1,555.00 |
| 1 kg - 1 g | **12476** | $2,415.00 | **11925** | $2,315.00 | **12073** | $2,210.00 | $730.00 | $455.00 | **11603** | $1,555.00 |
| 1 kg - 1 g* | **11889** | $2,415.00 | **12149** | $2,315.00 | **12288** | $2,210.00 | $730.00 | $455.00 | **11584** | $1,350.00 |
| 1 kg - 100 g | **45976** | $2,180.00 | **45977** | $2,135.00 | **45978** | $2,090.00 | $415.00 | $205.00 | **11603** | $1,555.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 1 kg - 1 mg | **12216** | $2,240.00 | $630.00 | **11603** | $1,555.00 |
| 1 kg - 100 mg | **45975** | $2,205.00 | $445.00 | **11603** | $1,555.00 |
| 1 kg - 1 g | **12219** | $2,158.00 | $350.00 | **11603** | $1,555.00 |
| 1 kg - 1 g* | **12391** | $2,090.00 | $350.00 | **11605** | $1,350.00 |
| 1 kg - 100 g | **45979** | $1,855.00 | $155.00 | **11603** | $1,555.00 |

** 5-2-2-1 configuration*



*PN 12473*
*Set includes lifting device and gloves (1 kg to 1 mg)*





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# Metric Sets

Range: 1 kg

| Weight Set Contents | | | | |
|---|---|---|---|---|
| **1 kg - 1 mg** | **1 kg - 100 mg** | **1 kg - 1 g** | **1 kg - 1 g*** | **1 kg - 100 g** |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 1 - 300 g | 1 - 300 g | 1 - 300 g | 2 - 200 g | 1 - 300 g |
| 1 - 200 g | 1 - 200 g | 1 - 200 g | 1 - 100 g | 1 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 50 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 2 - 20 g | - |
| 1 - 30 g | 1 - 30 g | 1 - 30 g | 1 - 10 g | - |
| 1 - 20 g | 1 - 20 g | 1 - 20 g | 1 - 5 g | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | 2 - 2 g | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 1 g | - |
| 1 - 3 g | 1 - 3 g | 1 - 3 g | - | - |
| 1 - 2 g | 1 - 2 g | 1 - 2 g | - | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | - | - |
| 1 - 500 mg | 1 - 500 mg | - | - | - |
| 1 - 300 mg | 1 - 300 mg | - | - | - |
| 1 - 200 mg | 1 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | - | - | - | - |
| 1 - 30 mg | - | - | - | - |
| 1 - 20 mg | - | - | - | - |
| 1 - 10 mg | - | - | - | - |
| 1 - 5 mg | - | - | - | - |
| 1 - 3 mg | - | - | - | - |
| 1 - 2 mg | - | - | - | - |
| 1 - 1 mg | - | - | - | - |
| **Piece Count** | | | | |
| 25 | 17 | 13 | 13 | 5 |
| **Total Weight** | | | | |
| 2.222221 kg | 2.2221 kg | 2.221 kg | 2.11 kg | 2.1 kg |
| **Part #** | | | | |
| **45919**-Class 0 | **45920**-Class 0 | **45921**-Class 0 | - | **45922**-Class 0 |
| **12473**-Class 1 | **45972**-Class 1 | **12476**-Class 1 | **11889**-Class 1 | **45976**-Class 1 |
| **11922**-Class 2 | **45973**-Class 2 | **11925**-Class 2 | **12149**-Class 2 | **45977**-Class 2 |
| **12070**-Class 3 | **45974**-Class 3 | **12073**-Class 3 | **12288**-Class 3 | **45978**-Class 3 |
| **12216**-Class 4 | **45975**-Class 4 | **12219**-Class 4 | **12391**-Class 4 | **45979**-Class 4 |

** 5-2-2-1 configuration*

| Secondary Case Class 1, 2, 3 and 4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg | **11596** | $153.00 |
| 100 g - 1 mg* | **11588** | $153.00 |

| Secondary Case Class 0 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg | **49503** | $211.00 |

| Case Insert Classes 1-4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g | **46380** | $100.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |
| **50000** | Tong assembly, Class 0 | $64.00 |





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# Metric Sets

Range: 2 kg

| Class 0** | | |
|---|---|---|
| **Set Size** | **Part #** | **Price** |
| 2 kg - 1 mg | **45915** | $7,240.00 |
| (2) 2 kg - 1 mg* | **87043** | $8,680.00 |
| (2) 2 kg - 10 mg* | **87042** | $8,220.00 |
| 2 kg - 100 mg | **45916** | $6,950.00 |
| (2) 2 kg - 100 mg | **87041** | $7,675.00 |
| 2 kg - 1 g | **45917** | $5,210.00 |
| (2) 2 kg - 1 g | **87044** | $6,725.00 |
| 2 kg - 100 g | **45918** | $4,200.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **50439** | $1,580.00 |
| **84474** | $1,680.00 |
| **84474** | $1,680.00 |
| **50439** | $1,580.00 |
| **84474** | $1,680.00 |
| **50439** | $1,580.00 |
| **84474** | $1,680.00 |
| **50438** | $1,580.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Part #** | **Price** | **Part #** | **Price** | **Accredited Certificate** | **Non-accredited Certificate** | **Part #** | **Price** |
| 2 kg - 1 mg | **12477** | $3,475.00 | **11926** | $3,095.00 | **12074** | $3,045.00 | $1,310.00 | $900.00 | **11604** | $1,350.00 |
| (2) 2 kg - 1 mg* | **87069** | $3,875.00 | **87070** | $3,735.00 | **87071** | $3,600.00 | $1,430.00 | $960.00 | **84463** | $1,360.00 |
| (2) 2 kg - 10 mg* | **87065** | $3,810.00 | **87066** | $3,470.00 | **87067** | $3,320.00 | $1,270.00 | $830.00 | **84463** | $1,360.00 |
| 2 kg - 100 mg | **45980** | $3,695.00 | **45981** | $3,245.00 | **45982** | $3,175.00 | $1,000.00 | $640.00 | **11604** | $1,350.00 |
| (2) 2 kg - 100 mg* | **87061** | $3,780.00 | **87062** | $3,350.00 | **87063** | $3,175.00 | $1,120.00 | $700.00 | **84463** | $1,360.00 |
| 2 kg - 1 g | **12480** | $2,935.00 | **11929** | $2,765.00 | **12077** | $2,710.00 | $840.00 | $510.00 | **11604** | $1,350.00 |
| 2 kg - 1 g* | **11888** | $2,935.00 | **12148** | $2,765.00 | **12287** | $2,710.00 | $840.00 | $510.00 | **11583** | $1,555.00 |
| (2) 2 kg - 1 g* | **87073** | $3,610.00 | **87074** | $3,335.00 | **87075** | $3,235.00 | $960.00 | $570.00 | **84463** | $1,360.00 |
| 2 kg - 100 g | **45984** | $2,835.00 | **45985** | $2,710.00 | **45986** | $2,545.00 | $520.00 | $260.00 | **11604** | $1,350.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** | **Part #** | **Price** |
| 2 kg - 1 mg | **12220** | $2,715.00 | $640.00 | **11604** | $1,350.00 |
| (2) 2 kg - 1 mg* | **87072** | $3,320.00 | $730.00 | **84463** | $1,360.00 |
| (2) 2 kg - 10 mg* | **87068** | $3,035.00 | $640.00 | **84463** | $1,360.00 |
| 2 kg - 100 mg | **45983** | $3,150.00 | $490.00 | **11604** | $1,350.00 |
| (2) 2 kg - 100 mg* | **87064** | $3,005.00 | $540.00 | **84463** | $1,360.00 |
| 2 kg - 1 g | **12223** | $2,600.00 | $395.00 | **11604** | $1,350.00 |
| 2 kg - 1 g* | **12390** | $2,600.00 | $395.00 | **11583** | $1,555.00 |
| (2) 2 kg - 1 g* | **87076** | $2,815.00 | $450.00 | **84463** | $1,360.00 |
| 2 kg - 100 g | **45987** | $2,430.00 | $210.00 | **11604** | $1,350.00 |

** 5-2-2-1 configuration*



*PN 12477*
*Set includes lifting device and gloves*



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# Metric Sets

Range: 2 kg

| Weight Set Contents | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **2 kg - 1 mg** | **(2) 2 kg - 1 mg*** | **(2) 2 kg - 10 mg*** | **2 kg - 100 mg** | **(2) 2 kg - 100 mg*** | **2 kg - 1 g** | **2 kg - 1 g*** | **(2) 2 kg - 1 g*** | **2 kg - 100 g** |
| 1 - 2 kg | 2 - 2 kg | 2 - 2 kg | 1 - 2 kg | 2 - 2 kg | 1 - 2 kg | 1 - 2 kg | 2 - 2 kg | 1 - 2 kg |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 -1kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 1 - 300 g | 2 - 200 g | 2 - 200 g | 1 - 300 g | 2 - 200 g | 1 - 300 g | 2 - 200 g | 2 - 200 g | 1 - 300 g |
| 1 - 200 g | 1 - 100 g | 1 - 100 g | 1 - 200 g | 1 - 100 g | 1 - 200 g | 1 - 100 g | 1 - 100 g | 1 - 200 g |
| 1 - 100 g | 1 - 50 g | 1 - 50 g | 1 - 100 g | 1 - 50 g | 1 - 100 g | 1 - 50 g | 1 - 50 g | 1 - 100 g |
| 1 - 50 g | 2 - 20 g | 2 - 20 g | 1 - 50 g | 2 - 20 g | 1 - 50 g | 2 - 20 g | 2 - 20 g | - |
| 1 - 30 g | 1 - 10 g | 1 - 10 g | 1 - 30 g | 1 - 10 g | 1 - 30 g | 1 - 10 g | 1 - 10 g | - |
| 1 - 20 g | 1 - 5 g | 1 - 5 g | 1 - 20 g | 1 - 5 g | 1 - 20 g | 1 - 5 g | 1 - 5 g | - |
| 1 - 10 g | 2 - 2 g | 2 - 2 g | 1 - 10 g | 2 - 2 g | 1 - 10 g | 2 - 2 g | 2 - 2 g | - |
| 1 - 5 g | 1 - 1 g | 1 - 1 g | 1 - 5 g | 1 - 1 g | 1 - 5 g | 1 - 1 g | 1 - 1 g | - |
| 1 - 3 g | 1 - 500 mg | 1 - 500 mg | 1 - 3 g | 1 - 500 mg | 1 - 3 g | - | - | - |
| 1 - 2 g | 2 - 200 mg | 2 - 200 mg | 1 - 2 g | 2 - 200 mg | 1 - 2 g | - | - | - |
| 1 - 1 g | 1 - 100 mg | 1 - 100 mg | 1 - 1 g | 1 - 100 mg | 1 - 1 g | - | - | - |
| 1 - 500 mg | 1 - 50 mg | 1 - 50 mg | 1 - 500 mg | - | - | - | - | - |
| 1 - 300 mg | 2 - 20 mg | 2 - 20 mg | 1 - 300 mg | - | - | - | - | - |
| 1 - 200 mg | 1 - 10 mg | 1 - 10 mg | 1 - 200 mg | - | - | - | - | - |
| 1 - 100 mg | 1 - 5 mg | - | 1 - 100 mg | - | - | - | - | - |
| 1 - 50 mg | 2 - 2 mg | - | - | - | - | - | - | - |
| 1 - 30 mg | 1 - 1 mg | - | - | - | - | - | - | - |
| 1 - 20 mg | - | - | - | - | - | - | - | - |
| 1 - 10 mg | - | - | - | - | - | - | - | - |
| 1 - 5 mg | - | - | - | - | - | - | - | - |
| 1 - 3 mg | - | - | - | - | - | - | - | - |
| 1 - 2 mg | - | - | - | - | - | - | - | - |
| 1 - 1 mg | - | - | - | - | - | - | - | - |
| **Piece Count** | | | | | | | | |
| 26 | 27 | 23 | 18 | 19 | 14 | 14 | 15 | 6 |
| **Total Weight** | | | | | | | | |
| 4.222221 kg | 6.222221 kg | 6.22 kg | 4.2221 kg | 6.2221 kg | 4.11 kg | 4.11 kg | 6.221 kg | 4.1 kg |
| **Part #** | | | | | | | | |
| **45915**-Class 0 | **87043**-Class 0 | **87042**-Class 0 | **45916**-Class 0 | **87041**-Class 0 | **45917**-Class 0 | - | **87044**-Class 0 | **45918**-Class 0 |
| **12477**-Class 1 | **87069**-Class 1 | **87065**-Class 1 | **45980**-Class 1 | **87061**-Class 1 | **12480**-Class 1 | **11888**-Class 1 | **87073**-Class 1 | **45984**-Class 1 |
| **11926**-Class 2 | **87070**-Class 2 | **87066**-Class 2 | **45981**-Class 2 | **87062**-Class 2 | **11929**-Class 2 | **12148**-Class 2 | **87074**-Class 2 | **45985**-Class 2 |
| **12074**-Class 3 | **87071**-Class 3 | **87067**-Class 3 | **45982**-Class 3 | **87063**-Class 3 | **12077**-Class 3 | **12287**-Class 3 | **87075**-Class 3 | **45986**-Class 3 |
| **12220**-Class 4 | **87072**-Class 4 | **87068**-Class 4 | **45983**-Class 4 | **87064**-Class 4 | **12223**-Class 4 | **12390**-Class 4 | **87076**-Class 4 | **45987**-Class 4 |

** 5-2-2-1 configuration*

| Secondary Case Class 0 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg* | **34697** | $190.00 |
| 100 g - 1 mg | **49503** | $211.00 |

| Secondary Case Classes 1 - 4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg* | **11588** | $153.00 |
| 100 g - 1 mg | **11596** | $153.00 |

| Case Insert (Wooden) | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g | **46380** | $100.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |
| **11712** | Lifter bar, large handle | $63.00 |
| **50000** | Tong assembly, Class 0 | $64.00 |
| **50037** | Lifter (Class 0 and OIML 2 and 5 kg) | $47.00 |





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# Metric Sets

Range: 3 kg and 5 kg

| Class 0** | | |
|---|---|---|
| **Set Size** | **Part #** | **Price** |
| 5 kg - 1 mg | **45910** | $9,820.00 |
| 5 kg - 100 mg | **45911** | $9,195.00 |
| 5 kg - 1 g | **45912** | $8,045.00 |
| 5 kg - 100 g | **45913** | $6,760.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **49495** | $1,580.00 |
| **49495** | $1,580.00 |
| **49495** | $1,580.00 |
| **50440** | $1,520.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional |
|---|---|---|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Part #** | **Price** | **Part #** | **Price** | **Accredited Certificate** | **Non-accredited Certificate** |
| 3 kg - 1 g | **11887** | $3,847.00 | **12147** | $3,280.00 | **12286** | $3,270.00 | $960.00 | $570.00 |
| 5 kg - 1 mg | **12481** | $5,130.00 | **11930** | $4,535.00 | **12078** | $4,465.00 | $1,400.00 | $840.00 |
| 5 kg - 1 mg* | **114050** | $5,130.00 | **114051** | $4,535.00 | **114052** | $4,465.00 | $1,400.00 | $840.00 |
| 5 kg - 100 mg | **45988** | $4,850.00 | **45989** | $4,506.00 | **45990** | $4,330.00 | $1,225.00 | $765.00 |
| 5 kg - 1 g | **12484** | $4,555.00 | **11933** | $4,165.00 | **12081** | $4,165.00 | $1,075.00 | $635.00 |
| 5 kg - 1 g * | **11886** | $4,553.00 | **12146** | $4,165.00 | **12285** | $4,135.00 | $1,075.00 | $635.00 |
| 5 kg - 100 g | **45992** | $4,205.00 | **45993** | $3,815.00 | **45994** | $3,790.00 | $755.00 | $380.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **11582** | $1,350.00 |
| **11605** | $1,350.00 |
| **11581** | $1,350.00 |
| **11605** | $1,350.00 |
| **11605** | $1,350.00 |
| **11581** | $1,350.00 |
| **11605** | $1,350.00 |

| Class 4 | | | Optional |
|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** |
| 3 kg - 1 g | **12389** | $2,925.00 | $445.00 |
| 5 kg - 1 mg | **12224** | $4,038.00 | $780.00 |
| 5 kg - 1 mg* | **114053** | $4,038.00 | $780.00 |
| 5 kg - 100 mg | **45991** | $3,925.00 | $590.00 |
| 5 kg - 1 g | **12227** | $3,580.00 | $490.00 |
| 5 kg - 1 g* | **12388** | $3,580.00 | $490.00 |
| 5 kg - 100 g | **45995** | $3,275.00 | $300.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **11582** | $1,350.00 |
| **11605** | $1,350.00 |
| **11581** | $1,350.00 |
| **11605** | $1,350.00 |
| **11605** | $1,350.00 |
| **11581** | $1,350.00 |
| **11605** | $1,350.00 |

** 5-2-2-1 configuration*



*PN 11887*
*Set includes lifting device and gloves*





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# Metric Sets

Range: 3 kg and 5 kg

| Weight Set Contents | | | | | | |
|---|---|---|---|---|---|---|
| **3 kg - 1 g** | **5 kg - 1 mg** | **5 kg - 1 mg*** | **5 kg - 100 mg** | **5 kg - 1 g** | **5 kg - 1 g*** | **5 kg - 100 g** |
| 1 - 3 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg |
| 1 - 2 kg | 1 - 3 kg | 2 - 2 kg | 1 - 3 kg | 1 - 3 kg | 2 - 2 kg | 1 - 3 kg |
| 1 - 1 kg | 1 - 2 kg | 1 - 1 kg | 1 - 2 kg | 1 - 2 kg | 1 - 1 kg | 1 - 2 kg |
| 1 - 500 g | 1 - 1 kg | 1 - 500 g | 1 - 1 kg | 1 - 1 kg | 1 - 500 g | 1 - 1 kg |
| 1 - 300 g | 1 - 500 g | 2 - 200 g | 1 - 500 g | 1 - 500 g | 2 - 200 g | 1 - 500 g |
| 1 - 200 g | 1 - 300 g | 1 - 100 g | 1 - 300 g | 1 - 300 g | 1 - 100 g | 1 - 300 g |
| 1 - 100 g | 1 - 200 g | 1 - 50 g | 1 - 200 g | 1 - 200 g | 1 - 50 g | 1 - 200 g |
| 1 - 50 g | 1 - 100 g | 2 - 20 g | 1 - 100 g | 1 - 100 g | 2 - 20 g | 1 - 100 g |
| 1 - 30 g | 1 - 50 g | 1 - 10 g | 1 - 50 g | 1 - 50 g | 1 - 10 g | - |
| 1 - 20 g | 1 - 30 g | 1 - 5 g | 1 - 30 g | 1 - 30 g | 1 - 5 g | - |
| 1 - 10 g | 1 - 20 g | 2 - 2 g | 1 - 20 g | 1 - 20 g | 2 - 2 g | - |
| 1 - 5 g | 1 - 10 g | 1 - 1 g | 1 - 10 g | 1 - 10 g | 1 - 1 g | - |
| 1 - 3 g | 1 - 5 g | 1 - 500 mg | 1 - 5 g | 1 - 5 g | - | - |
| 1 - 2 g | 1 - 3 g | 2 - 200 mg | 1 - 3 g | 1 - 3 g | - | - |
| 1 - 1 g | 1 - 2 g | 1 - 100 mg | 1 - 2 g | 1 - 2 g | - | - |
| - | 1 - 1 g | 1 - 50 mg | 1 - 1 g | 1 - 1 g | - | - |
| - | 1 - 500 mg | 2 - 20 mg | 1 - 500 mg | - | - | - |
| - | 1 - 300 mg | 1 - 10 mg | 1 - 300 mg | - | - | - |
| - | 1 - 200 mg | 1 - 5 mg | 1 - 200 mg | - | - | - |
| - | 1 - 100 mg | 2 - 2 mg | 1 - 100 mg | - | - | - |
| - | 1 - 50 mg | 1 - 1 mg | - | - | - | - |
| - | 1 - 30 mg | - | - | - | - | - |
| - | 1 - 20 mg | - | - | - | - | - |
| - | 1 - 10 mg | - | - | - | - | - |
| - | 1 - 5 mg | - | - | - | - | - |
| - | 1 - 3 mg | - | - | - | - | - |
| - | 1 - 2 mg | - | - | - | - | - |
| - | 1 - 1 mg | - | - | - | - | - |
| **Piece Count** | | | | | | |
| 15 | 28 | 28 | 20 | 16 | 16 | 8 |
| **Total Weight** | | | | | | |
| 7.221 kg | 12.222221 kg | 12.23 kg | 12.22 kg | 12.221 kg | 11.110 kg | 12.1 kg |
| **Part #** | | | | | | |
| - | **45910**-Class 0 | - | **45911**-Class 0 | **45912**-Class 0 | - | **45913**-Class 0 |
| **11887**-Class 1 | **12481**-Class 1 | **114050**-Class 1 | **45988**-Class 1 | **12484**-Class 1 | **11886**-Class 1 | **45992**-Class 1 |
| **12147**-Class 2 | **11930**-Class 2 | **114051**-Class 2 | **45989**-Class 2 | **11933**-Class 2 | **12146**-Class 2 | **45993**-Class 2 |
| **12286**-Class 3 | **12078**-Class 3 | **114052**-Class 3 | **45990**-Class 3 | **12081**-Class 3 | **12285**-Class 3 | **45994**-Class 3 |
| **12389**-Class 4 | **12224**-Class 4 | **114053**-Class 4 | **45991**-Class 4 | **12227**-Class 4 | **12388**-Class 4 | **45995**-Class 4 |

** 5-2-2-1 configuration*

| Secondary Case Class 0 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg | **49503** | $211.00 |

| Secondary Case Classes 1 - 4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg* | **11588** | $153.00 |
| 100 g - 1 mg | **11596** | $153.00 |

| Case Insert (Wooden) | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g | **46380** | $100.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |
| **11712** | Lifter bar, large handle | $63.00 |
| **50000** | Tong assembly, Class 0 | $64.00 |
| **50037** | Lifter (Class 0 and OIML 2 and 5 kg) | $47.00 |





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# Metric Sets

Range: 10 kg

| Class 0** | | |
|---|---|---|
| Set Size | Part # | Price |
| 10 kg - 1 mg | **45905** | $12,790.00 |
| 10 kg - 100 mg | **45906** | $12,135.00 |
| 10 kg - 1 g | **45907** | $10,355.00 |
| 10 kg - 100 g | **45908** | $10,265.00 |
| 10 kg - 1 kg | **45909** | $8,085.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **50442** | $1,845.00 |
| **50442** | $1,845.00 |
| **50442** | $1,845.00 |
| **50442** | $1,845.00 |
| **50441** | $1,555.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 10 kg - 1 mg | **12485** | $7,272.00 | **11934** | $6,965.00 | **12082** | $6,905.00 | $1,500.00 | $900.00 | **11606** | $1,813.00 |
| 10 kg - 100 mg | **45996** | $7,165.00 | **45997** | $6,840.00 | **45998** | $6,740.00 | $1,325.00 | $820.00 | **11606** | $1,813.00 |
| 10 kg - 1 g | **12488** | $6,798.00 | **11937** | $6,760.00 | **12085** | $6,650.00 | $1,180.00 | $690.00 | **11606** | $1,813.00 |
| 10 kg - 1 g* | **11885** | $6,798.00 | **12144** | $6,730.00 | **12283** | $6,650.00 | $1,180.00 | $690.00 | **11580** | $1,813.00 |
| 10 kg - 100 g | **46000** | $6,725.00 | **46001** | $6,310.00 | **46002** | $6,230.00 | $870.00 | $440.00 | **11606** | $1,813.00 |
| 10 kg - 1 kg | **46004** | $6,260.00 | **46005** | $5,645.00 | **46006** | $5,585.00 | $530.00 | $280.00 | **11606** | $1,813.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 10 kg - 1 mg | **12228** | $6,190.00 | $830.00 | **11606** | $1,813.00 |
| 10 kg - 100 mg | **45999** | $6,085.00 | $640.00 | **11606** | $1,813.00 |
| 10 kg - 1 g | **12231** | $5,995.00 | $535.00 | **11606** | $1,813.00 |
| 10 kg - 1 g* | **12386** | $5,995.00 | $535.00 | **11580** | $1,813.00 |
| 10 kg - 100 g | **46003** | $5,620.00 | $350.00 | **11606** | $1,813.00 |
| 10 kg - 1 kg | **46007** | $5,020.00 | $250.00 | **11606** | $1,813.00 |

** 5-2-2-1 configuration*



*PN 12485*
*Set includes lifting device and gloves (10 kg to 1 mg)*





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# Metric Sets

Range: 10 kg

| Weight Set Contents | | | | | |
|---|---|---|---|---|---|
| **10 kg - 1 mg** | **10 kg - 100 mg** | **10 kg - 1 g** | **10 kg - 1 g*** | **10 kg - 100 g** | **10 kg - 1 kg** |
| 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg |
| 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg |
| 1 - 3 kg | 1 - 3 kg | 1 - 3 kg | 2 - 2 kg | 1 - 3 kg | 1 - 3 kg |
| 1 - 2 kg | 1 - 2 kg | 1 - 2 kg | 1 - 1 kg | 1 - 2 kg | 1 - 2 kg |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 500 g | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 2 - 200 g | 1 - 500 g | - |
| 1 - 300 g | 1 - 300 g | 1 - 300 g | 1 - 100 g | 1 - 300 g | - |
| 1 - 200 g | 1 - 200 g | 1 - 200 g | 1 - 50 g | 1 - 200 g | - |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 2 - 20 g | 1 - 100 g | - |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 10 g | - | - |
| 1 - 30 g | 1 - 30 g | 1 - 30 g | 1 - 5 g | - | - |
| 1 - 20 g | 1 - 20 g | 1 - 20 g | 2 - 2 g | - | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 1 g | - | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | - | - | - |
| 1 - 3 g | 1 - 3 g | 1 - 3 g | - | - | - |
| 1 - 2 g | 1 - 2 g | 1 - 2 g | - | - | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | - | - | - |
| 1 - 500 mg | 1 - 500 mg | - | - | - | - |
| 1 - 300 mg | 1 - 300 mg | - | - | - | - |
| 1 - 200 mg | 1 - 200 mg | - | - | - | - |
| 1 - 100 mg | 1 - 100 mg | - | - | - | - |
| 1 - 50 mg | - | - | - | - | - |
| 1 - 30 mg | - | - | - | - | - |
| 1 - 20 mg | - | - | - | - | - |
| 1 - 10 mg | - | - | - | - | - |
| 1 - 5 mg | - | - | - | - | - |
| 1 - 3 mg | - | - | - | - | - |
| 1 - 2 mg | - | - | - | - | - |
| 1 - 1 mg | - | - | - | - | - |
| **Piece Count** | | | | | |
| 29 | 21 | 17 | 17 | 9 | 5 |
| **Total Weight** | | | | | |
| 22.222221 kg | 22.2221 kg | 22.221 kg | 21.11 kg | 22.1 kg | 21 kg |
| **Part #** | | | | | |
| **45905**-Class 0 | **45906**-Class 0 | **45907**-Class 0 | - | **45908**-Class 0 | **45909**-Class 0 |
| **12485**-Class 1 | **45996**-Class 1 | **12488**-Class 1 | **11885**-Class 1 | **46000**-Class 1 | **46004**-Class 1 |
| **11934**-Class 2 | **45997**-Class 2 | **11937**-Class 2 | **12144**-Class 2 | **46001**-Class 2 | **46005**-Class 2 |
| **12082**-Class 3 | **45998**-Class 3 | **12085**-Class 3 | **12283**-Class 3 | **46002**-Class 3 | **46006**-Class 3 |
| **12278**-Class 4 | **45999**-Class 4 | **12231**-Class 4 | **12386**-Class 4 | **46003**-Class 4 | **46007**-Class 4 |

** 5-2-2-1 configuration*

| Secondary Case Class 0 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg* | **11588** | $153.00 |
| 100 g - 1 mg | **49503** | $211.00 |
| Insert, 100 g | **49489** | $137.00 |

| Secondary Case Classes 1 - 4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg* | **11588** | $153.00 |
| 100 g - 1 mg | **11596** | $153.00 |
| Insert, 100 g | **46380** | $100.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |
| **11712** | Lifter bar, large handle | $63.00 |
| **50000** | Tong assembly, Class 0 | $64.00 |
| **50037** | Lifter (Class 0 and OIML 2 kg and 5 kg) | $47.00 |





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# Metric Sets

Range: 20 kg and 25 kg

| Class 0** | | |
|---|---|---|
| **Set Size** | **Part #** | **Price** |
| 20 kg - 1 mg | **45900** | $16,205.00 |
| 20 kg - 100 mg | **45901** | $15,570.00 |
| 20 kg - 1 g | **45902** | $13,785.00 |
| 20 kg - 100 g | **45903** | $13,685.00 |
| 20 kg - 1 kg | **45904** | $11,900.00 |

| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **50670** | $1,845.00 |
| **50670** | $1,845.00 |
| **50670** | $1,845.00 |
| **50670** | $1,845.00 |
| **50670** | $1,845.00 |

*** Accredited Certificate included, Statement of Accuracy not available for Class 0*

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Part #** | **Price** | **Part #** | **Price** | **Accredited Certificate** | **Non-accredited Certificate** | **Part #** | **Price** |
| 25 kg - 1 g* | **11883** | $13,622.00 | **12140** | $12,278.00 | **12279** | $11,810.00 | $1,395.00 | $815.00 | **11578** | $1,813.00 |
| 20 kg - 1 mg | **12489** | $10,005.00 | **11938** | $9,070.00 | **12086** | $8,985.00 | $1,680.00 | $1,025.00 | **11608** | $1,813.00 |
| 20 kg - 100 mg | **46008** | $9,890.00 | **46009** | $8,940.00 | **46010** | $8,835.00 | $1,445.00 | $885.00 | **11608** | $1,813.00 |
| 20 kg - 1 g | **12492** | $9,280.00 | **11941** | $8,840.00 | **12089** | $8,735.00 | $1,285.00 | $760.00 | **11608** | $1,813.00 |
| 20 kg - 1 g* | **11884** | $9,280.00 | **12142** | $8,840.00 | **12281** | $8,735.00 | $1,285.00 | $760.00 | **11579** | $1,776.00 |
| 20 kg - 100 g | **46012** | $8,755.00 | **46013** | $8,420.00 | **46014** | $8,315.00 | $975.00 | $500.00 | **11608** | $1,813.00 |
| 20 kg - 1 kg | **46016** | $8,595.00 | **46017** | $7,755.00 | **46018** | $7,505.00 | $645.00 | $340.00 | **11608** | $1,813.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| **Set Size** | **Part #** | **Price** | **Accredited Certificate** | **Part #** | **Price** |
| 25 kg - 1 g* | **12382** | $11,045.00 | $590.00 | **11578** | $1,813.00 |
| 20 kg - 1 mg | **12232** | $8,095.00 | $900.00 | **11608** | $1,813.00 |
| 20 kg - 100 mg | **46011** | $7,955.00 | $680.00 | **11608** | $1,813.00 |
| 20 kg - 1 g | **12235** | $7,870.00 | $610.00 | **11579** | $1,776.00 |
| 20 kg - 1 g* | **12384** | $7,870.00 | $610.00 | **11608** | $1,813.00 |
| 20 kg - 100 g | **46015** | $7,500.00 | $395.00 | **11608** | $1,813.00 |
| 20 kg - 1 kg | **46019** | $6,895.00 | $270.00 | **11608** | $1,813.00 |

** 5-2-2-1 configuration*





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# Metric Sets

Range: 20 kg and 25 kg

| Weight Set Contents | | | | | | |
|---|---|---|---|---|---|---|
| **25 kg - 1 g*** | **20 kg - 1 mg** | **20 kg - 100 mg** | **20 kg - 1 g** | **20 kg - 1 g*** | **20 kg - 100 g** | **20 - 1 kg** |
| 1 - 25 kg | 1 - 20 kg | 1 - 20 kg | 1 - 20 kg | 1 - 20 kg | 1 - 20 kg | 1 - 20 kg |
| 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg |
| 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg |
| 2 - 2 kg | 1 - 3 kg | 1 - 3 kg | 1 - 3 kg | 2 - 2 kg | 1 - 3 kg | 1 - 3 kg |
| 1 - 1 kg | 1 - 2 kg | 1 - 2 kg | 1 - 2 kg | 1 - 1 kg | 1 - 2 kg | 1 - 2 kg |
| 1 - 500 g | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 500 g | 1 - 1 kg | 1 - 1 kg |
| 2 - 200 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 2 - 200 g | 1 - 500 g | - |
| 1 - 100 g | 1 - 300 g | 1 - 300 g | 1 - 300 g | 1 - 100 g | 1 - 300 g | - |
| 1 - 50 g | 1 - 200 g | 1 - 200 g | 1 - 200 g | 1 - 50 g | 1 - 200 g | - |
| 2 - 20 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 2 - 20 g | 1 - 100 g | - |
| 1 - 10 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 10 g | - | - |
| 1 - 5 g | 1 - 30 g | 1 - 30 g | 1 - 30 g | 1 - 5 g | - | - |
| 2 - 2 g | 1 - 20 g | 1 - 20 g | 1 - 20 g | 2 - 2 g | - | - |
| 1 - 1 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 1 g | - | - |
| - | 1 - 5 g | 1 - 5 g | 1 - 5 g | - | - | - |
| - | 1 - 3 g | 1 - 3 g | 1 - 3 g | - | - | - |
| - | 1 - 2 g | 1 - 2 g | 1 - 2 g | - | - | - |
| - | 1 - 1 g | 1 - 1 g | 1 - 1 g | - | - | - |
| - | 1 - 500 mg | 1 - 500 mg | - | - | - | - |
| - | 1 - 300 mg | 1 - 300 mg | - | - | - | - |
| - | 1 - 200 mg | 1 - 200 mg | - | - | - | - |
| - | 1 - 100 mg | 1 - 100 mg | - | - | - | - |
| - | 1 - 50 mg | - | - | - | - | - |
| - | 1 - 30 mg | - | - | - | - | - |
| - | 1 - 20 mg | - | - | - | - | - |
| - | 1 - 10 mg | - | - | - | - | - |
| - | 1 - 5 mg | - | - | - | - | - |
| - | 1 - 3 mg | - | - | - | - | - |
| - | 1 - 2 mg | - | - | - | - | - |
| - | 1 - 1 mg | - | - | - | - | - |
| **Piece Count** | | | | | | |
| 18 | 30 | 22 | 18 | 18 | 10 | 6 |
| **Total Weight** | | | | | | |
| 46.11 kg | 42.222221 kg | 42.22 kg | 42.22 kg | 41.11 kg | 42.1 kg | 41 kg |
| **Part #** | | | | | | |
| - | **45900**-Class 0 | **45901**-Class 0 | **45902**-Class 0 | - | **45903**-Class 0 | **45904**-Class 0 |
| **11883**-Class 1 | **12489**-Class 1 | **46008**-Class 1 | **12492**-Class 1 | **11884**-Class 1 | **46012**-Class 1 | **46016**-Class 1 |
| **12140**-Class 2 | **11938**-Class 2 | **46009**-Class 2 | **11941**-Class 2 | **12142**-Class 2 | **46013**-Class 2 | **46017**-Class 2 |
| **12279**-Class 3 | **12086**-Class 3 | **46010**-Class 3 | **12089**-Class 3 | **12281**-Class 3 | **46014**-Class 3 | **46018**-Class 3 |
| **12382**-Class 4 | **12232**-Class 4 | **46011**-Class 4 | **12235**-Class 4 | **12384**-Class 4 | **46015**-Class 4 | **46019**-Class 4 |

** 5-2-2-1 configuration*

| Secondary Case Class 0 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg* | **11588** | $153.00 |
| 100 g - 1 mg | **49503** | $211.00 |
| Insert, 100 g | **49489** | $137.00 |

| Secondary Case Classes 1 - 4 | | |
|---|---|---|
| **Size** | **Part #** | **Price** |
| 100 g - 1 mg* | **11588** | $153.00 |
| 100 g - 1 mg | **11596** | $153.00 |
| Insert, 100 g | **46380** | $100.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |
| **11712** | Lifter bar, large handle | $63.00 |
| **50000** | Tong assembly, Class 0 | $64.00 |
| **50037** | Lifter (Class 0 and OIML 2 and 5 kg) | $47.00 |





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# Avoirdupois Sets

Range: 50 lb through 2 lb

| Class 1 | | | Class 2 | | Class 3 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 50 lb - 1/32 oz | **11999** | $17,805.00 | **12145** | $17,615.00 | **12284** | $17,380.00 | $1,260.00 | $800.00 | **11589** | $1,813.00 |
| 50 lb - 0.001 lb | **119043** | $17,805.00 | **119044** | $17,615.00 | **119045** | $17,380.00 | $1,260.00 | $800.00 | **11589** | $1,813.00 |
| 20 lb - 1/32 oz | **11997** | $8,518.00 | **12143** | $8,515.00 | **12282** | $8,335.00 | $950.00 | $670.00 | **11590** | $1,947.00 |
| 20 lb - 0.001 lb | **119047** | $8,518.00 | **119048** | $8,513.00 | **119049** | $8,502.00 | $950.00 | $670.00 | **11590** | $1,947.00 |
| 10 lb - 1/32 oz | **11995** | $5,995.00 | **12141** | $5,785.00 | **12280** | $5,605.00 | $830.00 | $600.00 | **11591** | $1,555.00 |
| 10 lb - 0.001 lb | **119051** | $5,995.00 | **119052** | $5,785.00 | **119053** | $5,605.00 | $830.00 | $600.00 | **11591** | $1,555.00 |
| 5 lb - 1/32 oz | **11993** | $4,535.00 | **12139** | $4,377.00 | **12278** | $4,320.00 | $725.00 | $530.00 | **11592** | $1,205.00 |
| 5 lb - 0.001 lb | **119055** | $4,535.00 | **119056** | $4,377.00 | **119057** | $4,320.00 | $725.00 | $530.00 | **11592** | $1,205.00 |
| 2 lb - 1/32 oz | **11991** | $3,035.00 | **12137** | $2,899.00 | **12276** | $2,745.00 | $545.00 | $415.00 | **11593** | $1,570.00 |
| 2 lb - 0.001 lb | **119059** | $3,035.00 | **119060** | $2,899.00 | **119061** | $2,745.00 | $545.00 | $415.00 | **11593** | $1,570.00 |

| Class 4 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 50 lb - 1/32 oz | **12387** | $16,950.00 | $605.00 | **11589** | $1,813.00 |
| 50 lb - 0.001 lb | **119046** | $16,950.00 | $605.00 | **11589** | $1,813.00 |
| 20 lb - 1/32 oz | **12385** | $7,820.00 | $500.00 | **11590** | $1,947.00 |
| 20 lb - 0.001 lb | **119050** | $7,820.00 | $500.00 | **11590** | $1,947.00 |
| 10 lb - 1/32 oz | **12383** | $5,540.00 | $465.00 | **11591** | $1,555.00 |
| 10 lb - 0.001 lb | **119054** | $5,605.00 | $465.00 | **11591** | $1,555.00 |
| 5 lb - 1/32 oz | **12381** | $3,910.00 | $410.00 | **11592** | $1,205.00 |
| 5 lb - 0.001 lb | **119058** | $3,910.00 | $410.00 | **11592** | $1,205.00 |
| 2 lb - 1/32 oz | **12379** | $2,540.00 | $325.00 | **11593** | $1,570.00 |
| 2 lb - 0.001 lb | **119062** | $2,540.00 | $325.00 | **11593** | $1,570.00 |

| Secondary Case | | |
|---|---|---|
| Size | Part # | Price |
| 4 oz - 1/32 oz | **11610** | $263.00 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic | $37.00 |
| **11747** | Lifter bar | $17.00 |
| **11712** | Lifter bar, large handle | $63.00 |
| **50000** | Tong assembly, Class 0 | $64.00 |
| **50037** | Lifter (Class 0 and OIML 2 kg and 5 kg) | $47.00 |



*PN 11995*
*Set includes lifting device and gloves*





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# Avoirdupois Sets

Range: 50 lb through 2 lb

| Weight Set Contents | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **50 lb - 1/32 oz** | **50 lb - 0.001 lb** | **20 lb - 1/32 oz** | **20 lb - 0.001 lb** | **10 lb - 1/32 oz** | **10 lb - 0.001 lb** | **5 lb - 1/32 oz** | **5 lb - 0.001 lb** | **2 lb - 1/32 oz** | **2 lb - 0.001 lb** |
| 1 - 50 lb | 1 - 50 lb | 1 - 20 lb | 1- 20 lb | 1 - 10 lb | 1 - 10 lb | 1 - 5 lb | 1 - 5 lb | 1 - 2 lb | 1 - 2 lb |
| 1 - 30 lb | 1 - 30 lb | 1 - 10 lb | 1 - 10 lb | 1 - 5 lb | 1 - 5 lb | 1 - 3 lb | 1 - 3 lb | 1 - 1 lb | 1 - 1 lb |
| 1 - 20 lb | 1- 20 lb | 1 - 5 lb | 1 - 5 lb | 1 - 3 lb | 1 - 3 lb | 1 - 2 lb | 1 - 2 lb | 1 - 8 oz | 1 - .5 lb |
| 1 - 10 lb | 1 - 10 lb | 1 - 3 lb | 1 - 3 lb | 1 - 2 lb | 1 - 2 lb | 1 - 1 lb | 1 - 1 lb | 1 - 4 oz | 1 - 0.3 lb |
| 1 - 5 lb | 1 - 5 lb | 1 - 2 lb | 1 - 2 lb | 1 - 1 lb | 1 - 1 lb | 1 - 8 oz | 1 - .5 lb | 1 -2 oz | 1 - 0.2 lb |
| 1 - 3 lb | 1 - 3 lb | 1 - 1 lb | 1 - 1 lb | 1 - 8 oz | 1 - .5 lb | 1 - 4 oz | 1 - 0.3 lb | 1 - 1 oz | 1 - 0.1 lb |
| 1 - 2 lb | 1 - 2 lb | 1 - 8 oz | 1 - .5 lb | 1 - 4 oz | 1 - 0.3 lb | 1 -2 oz | 1 - 0.2 lb | 1 - 1/2 oz | 1 - 0.05 lb |
| 1 - 1 lb | 1 - 1 lb | 1 - 4 oz | 1 - 0.3 lb | 1 - 2 oz | 1 - 0.2 lb | 1 - 1 oz | 1 - 0.1 lb | 1 - 1/4 oz | 1 - 0.03 lb |
| 1 - 8 oz | 1 - .5 lb | 1 -2 oz | 1 - 0.2 lb | 1 - 1 oz | 1 - 0.1 lb | 1 - 1/2 oz | 1 - 0.05 lb | 1 - 1/8 oz | 1 - 0.02 lb |
| 1 - 4 oz | 1 - 0.3 lb | 1 - 1 oz | 1 - 0.1 lb | 1 - 1/2 oz | 1 - 0.05 lb | 1 - 1/4 oz | 1 - 0.03 lb | 1 - 1/16 oz | 1 - 0.01 lb |
| 1 - 2 oz | 1 - 0.2 lb | 1 - 1/2 oz | 1 - 0.05 lb | 1 - 1/4 oz | 1 - 0.03 lb | 1 - 1/8 oz | 1 - 0.02 lb | 2 - 1/32 oz | 1 - 0.005 lb |
| 1 - 1 oz | 1 - 0.1 lb | 1 - 1/4 oz | 1 - 0.03 lb | 1 - 1/8 oz | 1 - 0.02 lb | 1 - 1/16 oz | 1 - 0.01 lb | - | 1 - 0.003 lb |
| 1 - 1/2 oz | 1 - 0.05 lb | 1 - 1/8 oz | 1 - 0.02 lb | 1 - 1/16 oz | 1 - 0.01 lb | 2 - 1/32 oz | 1 - 0.005 lb | - | 1 - 0.002 lb |
| 1 - 1/4 oz | 1 - 0.03 lb | 1 - 1/16 oz | 1 - 0.01 lb | 2 - 1/32 oz | 1 - 0.005 lb | - | 1 - 0.003 lb | - | 1 - 0.001 lb |
| 1 - 1/8 oz | 1 - 0.02 lb | 2 - 1/32 oz | 1 - 0.005 lb | - | 1 - 0.003 lb | - | 1 - 0.002 lb | - | - |
| 1 - 1/16 oz | 1 - 0.01 lb | - | 1 - 0.003 lb | - | 1 - 0.002 lb | - | 1 - 0.001 lb | - | - |
| 2 - 1/32 oz | 1 - 0.005 lb | - | 1 - 0.002 lb | - | 1 - 0.001 lb | - | - | - | - |
| - | 1 - 0.003 lb | - | 1 - 0.001 lb | - | - | - | - | - | - |
| - | 1 - 0.002 lb | - | - | - | - | - | - | - | - |
| - | 1 - 0.001 lb | - | - | - | - | - | - | - | - |
| **Piece Count** | | | | | | | | | |
| 18 | 20 | 16 | 18 | 15 | 17 | 14 | 16 | 12 | 14 |
| **Total Weight** | | | | | | | | | |
| 122 lb | 122 lb | 42 lb | 42 lb | 22 lb | 22 lb | 12 lb | 12 lb | 4 lb | 4 lb |
| **Part #** | | | | | | | | | |
| **11999** Class 1 | **119043** Class 1 | **11997** Class 1 | **119047** Class 1 | **11995** Class 1 | **119051** Class 1 | **11993** Class 1 | **119055** Class 1 | **11991** Class 1 | **119059** Class 1 |
| **12145** Class 2 | **119044** Class 2 | **12143** Class 2 | **119048** Class 2 | **12141** Class 2 | **119052** Class 2 | **12139** Class 2 | **119056** Class 2 | **12137** Class 2 | **119060** Class 2 |
| **12284** Class 3 | **119045** Class 3 | **12282** Class 3 | **119049** Class 3 | **12280** Class 3 | **119053** Class 3 | **12278** Class 3 | **110957** Class 3 | **12276** Class 3 | **119061** Class 3 |
| **12387** Class 4 | **119046** Class 4 | **12385** Class 4 | **119050** Class 4 | **12383** Class 4 | **119054** Class 4 | **12381** Class 4 | **119058** Class 4 | **12379** Class 4 | **119062** Class 4 |



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# PRECISION LABORATORY

**OIML**




*Actual method of marking may vary while we transition to laser etched markings*

## Applications:

- Density measurement
- Tolerance checking
- Mass standards
- OIML guidelines for balance and scale verification

## Designs Available:

- Type I (one piece design) for Class E1, E2
- Type II (with sealing cavity) for Class F1, F2, M1, M2

## Product Configuration:

- Individual weight
- Individual weight kit: weight, case or vial, and glove
- Weight set: weights, case (additional small case or vial if required) and handling equipment
- Weight set configuration: 5-2-2-1 Example: (1) 50g, (2) 20g and (1) 10g
- OIML weight sets larger than 500g include a hardwood case with velvet-lined pockets
- Weight sets with the largest weight of 500g include a precision-machined, polyvinyl, crush-resistant case

## Features:

- Serial numbers applied to case (weights may be marked with symbol)
- Density for E1/E2 are 7.95 g/cm3 Density for F1/F2/M1/M2 are 7.84 g/cm3 (unless otherwise noted)
- OIML E1, E2, F1 and F2 polish finish
- OIML M1 and M2 satin finish
- E1, E2, F1, F2 and M1 weights include protective case
- Weights manufactured to international recommendation, OIML R111 specifications
- E1 and E2 supplied with Accredited Certificate per OIML R111





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# Metric Kits

| | Class E1* | | | Class E2* | | |
|---|---|---|---|---|---|---|
| | Weight | Part # | Price | Weight | Part # | Price |
| Screw Knob | - | - | - | 20 kg | **53850** | $2,775.00 |
| | 10 kg | **36872** | $3,100.00 | 10 kg | **36871** | $2,271.00 |
| | 5 kg | **29785** | $2,050.00 | 5 kg | **29775** | $1,275.00 |
| | 2 kg | **29784** | $1,468.00 | 2 kg | **29774** | $805.00 |
| | 1 kg | **29783** | $990.00 | 1 kg | **29773** | $599.00 |
| | 500 g | **29782** | $735.00 | 500 g | **29772** | $417.00 |
| | 200 g | **29781** | $630.00 | 200 g | **29771** | $330.00 |
| | 100 g | **29780** | $587.00 | 100 g | **29770** | $163.00 |
| | 50 g | **29779** | $525.00 | 50 g | **29769** | $158.00 |
| | 20 g | **29778** | $520.00 | 20 g | **29768** | $155.00 |
| | 10 g | **29777** | $515.00 | 10 g | **29767** | $147.00 |
| | 5 g | **29776** | $465.00 | 5 g | **29766** | $129.00 |
| | 2 g | **29745** | $465.00 | 2 g | **29743** | $129.00 |
| | 1 g | **29744** | $443.00 | 1 g | **29742** | $129.00 |
| Leaf | 500 mg | **29737** | $252.00 | 500 mg | **29731** | $125.00 |
| | 200 mg | **29736** | $252.00 | 200 mg | **29730** | $125.00 |
| | 100 mg | **29735** | $252.00 | 100 mg | **29729** | $125.00 |
| | 50 mg | **29734** | $252.00 | 50 mg | **29728** | $125.00 |
| | 20 mg | **29733** | $252.00 | 20 mg | **29727** | $125.00 |
| | 10 mg | **29732** | $252.00 | 10 mg | **29726** | $125.00 |
| | 5 mg | **29713** | $252.00 | 5 mg | **29710** | $125.00 |
| | 2 mg | **29712** | $252.00 | 2 mg | **29709** | $125.00 |
| | 1 mg | **29711** | $252.00 | 1 mg | **29708** | $125.00 |

**Accredited Certificate included, Statement of Accuracy not available Class E1 and E2*

| | Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|---|
| | Weight | Kit Part # | Kit Price | Kit Part # | Kit Price | Accredited Certificate | Non-accredited Certificate |
| Screw Knob | 20 kg | **53654** | $2,050.00 | **53655** | $1,957.00 | $145.00 | $80.00 |
| | 10 kg | **36870** | $1,664.00 | **36869** | $1,275.00 | $145.00 | $80.00 |
| | 5 kg | **29765** | $995.00 | **29755** | $695.00 | $145.00 | $80.00 |
| | 2 kg | **29764** | $585.00 | **29754** | $550.00 | $145.00 | $80.00 |
| | 1 kg | **29763** | $412.00 | **29753** | $355.00 | $125.00 | $60.00 |
| | 500 g | **29762** | $237.00 | **29752** | $237.00 | $125.00 | $60.00 |
| | 200 g | **29761** | $185.00 | **29751** | $180.00 | $125.00 | $60.00 |
| | 100 g | **29760** | $131.00 | **29750** | $110.00 | $55.00 | $45.00 |
| | 50 g | **29759** | $115.00 | **29749** | $110.00 | $55.00 | $45.00 |
| | 20 g | **29758** | $115.00 | **29748** | $110.00 | $55.00 | $45.00 |
| | 10 g | **29757** | $115.00 | **29747** | $79.00 | $55.00 | $45.00 |
| | 5 g | **29756** | $115.00 | **29746** | $110.00 | $55.00 | $45.00 |
| | 2 g | **29741** | $115.00 | **29739** | $110.00 | $55.00 | $45.00 |
| | 1 g | **29740** | $115.00 | **29738** | $110.00 | $55.00 | $45.00 |
| Leaf | 500 mg | **29725** | $47.00 | **29719** | $42.00 | $55.00 | $45.00 |
| | 200 mg | **29724** | $47.00 | **29718** | $42.00 | $55.00 | $45.00 |
| | 100 mg | **29723** | $47.00 | **29717** | $42.00 | $55.00 | $45.00 |
| | 50 mg | **29722** | $47.00 | **29716** | $42.00 | $55.00 | $45.00 |
| | 20 mg | **29721** | $47.00 | **29715** | $42.00 | $55.00 | $45.00 |
| | 10 mg | **29720** | $47.00 | **29714** | $42.00 | $55.00 | $45.00 |
| | 5 mg | **29707** | $47.00 | **29704** | $42.00 | $55.00 | $45.00 |
| | 2 mg | **29706** | $47.00 | **29703** | $42.00 | $55.00 | $45.00 |
| | 1 mg | **29705** | $47.00 | **29702** | $42.00 | $55.00 | $45.00 |



*One-piece and Milligram Kits*





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# Metric Kits and Weights

| M1 | | | Optional |
|---|---|---|---|
| **Weight** | **Kit Part #** | **Kit Price** | **Accredited Certificate** |
| 20 kg | **156292** | $1,235.00 | $75.00 |
| 10 kg | **156291** | $1,060.00 | $75.00 |
| 5 kg | **116207** | $480.00 | $75.00 |
| 2 kg | **116206** | $273.00 | $75.00 |
| 1 kg | **116205** | $190.00 | $55.00 |
| 500 g | **116204** | $110.00 | $55.00 |
| 200 g | **116203** | $94.00 | $55.00 |
| 100 g | **111927** | $75.00 | $40.00 |
| 50 g | **111928** | $71.00 | $40.00 |
| 20 g | **111929** | $68.00 | $40.00 |
| 10 g | **111930** | $68.00 | $40.00 |
| 5 g | **111931** | $63.00 | $40.00 |
| 2 g | **111932** | $63.00 | $40.00 |
| 1 g | **111933** | $63.00 | $40.00 |
| 500 mg | **202833** | $20.00 | $40.00 |
| 200 mg | **202835** | $20.00 | $40.00 |
| 100 mg | **202836** | $20.00 | $40.00 |
| 50 mg | **202837** | $20.00 | $40.00 |
| 20 mg | **202838** | $20.00 | $40.00 |
| 10 mg | **202839** | $20.00 | $40.00 |
| 5 mg | **202840** | $20.00 | $40.00 |
| 2 mg | **202841** | $20.00 | $40.00 |
| 1 mg | **202842** | $20.00 | $40.00 |

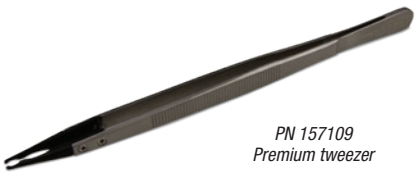
| Replacement Cases | |
|---|---|
| **Part #** | **Price** |
| **156290** | $475.00 |
| **156289** | $475.00 |
| **Consult** | Consult |
| **190266** | $33.00 |
| **190262** | $33.00 |
| **189711** | $33.00 |
| **196466** | $33.00 |
| **189566** | $36.00 |
| **189487** | $36.00 |
| **189477** | $36.00 |
| **189351** | $36.00 |
| **189240** | $36.00 |
| **189236** | $36.00 |
| **188285** | $36.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |
| **50038** | $4.00 |

| M2* | | | Optional |
|---|---|---|---|
| **Weight** | **Part #** | **Price** | **Accredited Certificate** |
| 5 kg | **115926** | $205.00 | $75.00 |
| 2 kg | **115925** | $125.00 | $75.00 |
| 1 kg | **115924** | $70.00 | $55.00 |
| 500 g | **115923** | $65.00 | $55.00 |
| 200 g | **115922** | $50.00 | $55.00 |
| 100 g | **111934** | $44.00 | $40.00 |
| 50 g | **111935** | $40.00 | $40.00 |
| 20 g | **111936** | $35.00 | $40.00 |
| 10 g | **111937** | $35.00 | $40.00 |
| 5 g | **111938** | $32.00 | $40.00 |
| 2 g | **111939** | $32.00 | $40.00 |
| 1 g | **111940** | $32.00 | $40.00 |

| Optional Cases | |
|---|---|
| **Part #** | **Price** |
| **Consult** | Consult |
| **190266** | $33.00 |
| **190262** | $33.00 |
| **189711** | $33.00 |
| **196466** | $33.00 |
| **189566** | $36.00 |
| **189487** | $36.00 |
| **189477** | $36.00 |
| **189351** | $36.00 |
| **189240** | $36.00 |
| **189236** | $36.00 |
| **188285** | $36.00 |

**M2 is sold as individual weight, accessory cases are available.*

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **152414** | Premium tweezer | $37.00 |



*PN 157109*
*Premium tweezer*




*PN 116203*
*200 g M1 OIML weight*





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# Metric Sets

Range: 500 mg-50 g

| Class E1* | | | Class E2* | | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Set Size | Part # | Price |
| 500 mg - 1 mg | **30850** | $1,850.00 | 500 mg - 1 mg | **30851** | $1,260.00 |
| 500 mg - 100 mg | **30854** | $932.00 | 500 mg - 100 mg | **30855** | $800.00 |
| **Accredited Certificate included, Statement of Accuracy not available, Class E1 or E2* | | | 50 g - 1 mg | **96477** | $1,890.00 |
| | | | 50 g - 1 g | **96478** | $1,030.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **34699** | $105.00 |
| **34699** | $105.00 |
| **34697** | $190.00 |
| **34697** | $190.00 |

| Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 500 mg - 1 mg | **30852** | $525.00 | **30853** | $520.00 | $470.00 | $375.00 |
| 500 mg - 100 mg | **30856** | $385.00 | **30857** | $299.00 | $155.00 | $125.00 |
| 50 g - 1 mg | **96479** | $1,020.00 | **96481** | $835.00 | $790.00 | $630.00 |
| 50 g - 1 g | **96480** | $620.00 | **96482** | $610.00 | $310.00 | $250.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **34699** | $105.00 |
| **34699** | $105.00 |
| **34697** | $190.00 |
| **34697** | $190.00 |

| Class M1 | | | Accredited Certificate |
|---|---|---|---|
| Set Size | Part # | Price | Price |
| 500 mg - 1 mg | **161537** | $385.00 | $280.00 |

| Weight Set Contents | | | |
|---|---|---|---|
| **500 mg - 1 mg** | **500 mg - 100 mg** | **50 g - 1 mg** | **50 g - 1 g** |
| 1 - 500 mg | 1 - 500 mg | 1 - 50 g | 1 - 50 g |
| 2 - 200 mg | 2 - 200 mg | 2 - 20 g | 2 - 20 g |
| 1 - 100 mg | 1 - 100 mg | 1 - 10 g | 1 - 10 g |
| 1 - 50 mg | - | 1 - 5 g | 1 - 5 g |
| 2 - 20 mg | - | 2 - 2 g | 2 - 2 g |
| 1 - 10 mg | - | 1 - 1 g | 1 - 1 g |
| 1 - 5 mg | - | 1 - 500 mg | - |
| 2 - 2 mg | - | 2 - 200 mg | - |
| 1 - 1 mg | - | 1 - 100 mg | - |
| - | - | 1 - 50 mg | - |
| - | - | 2 - 20 mg | - |
| - | - | 1 - 10 mg | - |
| - | - | 1 - 5 mg | - |
| - | - | 2 - 2 mg | - |
| - | - | 1 - 1 mg | - |
| **Piece Count** | | | |
| 12 | 4 | 20 | 8 |
| **Total Weight** | | | |
| 1.11 g | 1 g | 111.11 g | 108 g |
| **Part #** | | | |
| **30850**-Class E1 | **30854**-Class E1 | - | - |
| **30851**-Class E2 | **30855**-Class E2 | **96477**-Class E2 | **96478**-Class E2 |
| **30852**-Class F1 | **30856**-Class F1 | **96479**-Class F1 | **96480**-Class F1 |
| **30853**-Class F2 | **30857**-Class F2 | **96481**-Class F2 | **96482**-Class F2 |
| **161537**-Class M1 | - | - | - |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **50000** | Tong assembly, Class 0 | $64.00 |
| **50037** | Lifter (Class 0 and OIML 2 kg and 5 kg) | $47.00 |





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# Metric Sets

Range: 100 g

| Class E1* | | | Class E2* | | | Replacement Cases | |
|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Set Size | Part # | Price | Part # | Price |
| 100 g - 1 mg | **30838** | $4,542.00 | 100 g - 1 mg | **30839** | $2,088.00 | **34697** | $190.00 |
| 100 g - 100 mg | **30842** | $3,553.00 | 100 g - 100 mg | **30843** | $1,495.00 | **34697** | $190.00 |
| 100 g - 1 g | **30846** | $2,950.00 | 100 g - 1 g | **30847** | $1,118.00 | **34697** | $190.00 |

**Accredited Certificate included, Statement of Accuracy not available Class E1 or E2*

| Class F1 | | | Class F2 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 100 g - 1 mg | **30840** | $1,085.00 | **30841** | $855.00 | $830.00 | $590.00 | **34697** | $190.00 |
| 100 g - 100 mg | **30844** | $912.00 | **30845** | $840.00 | $510.00 | $405.00 | **34697** | $190.00 |
| 100 g - 1 g | **30848** | $715.00 | **30849** | $685.00 | $355.00 | $280.00 | **34697** | $190.00 |

| M1 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 100 g - 1 mg | **119561** | $810.00 | $505.00 | **34697** | $190.00 |
| 100 g - 1 g | **119560** | $567.00 | $215.00 | **34697** | $190.00 |

| Weight Set Contents | | |
|---|---|---|
| **100 g - 1 mg** | **100 g - 100 mg** | **100 g - 1 g** |
| 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g |
| 2 - 20 g | 2 - 20 g | 2 - 20 g |
| 1 - 10 g | 1 - 10 g | 1 - 10 g |
| 1 - 5 g | 1 - 5 g | 1 - 5 g |
| 2 - 2 g | 2 - 2 g | 2 - 2 g |
| 1 - 1 g | 1 - 1 g | 1 - 1 g |
| 1 - 500 mg | 1 - 500 mg | - |
| 2 - 200 mg | 2 - 200 mg | - |
| 1 - 100 mg | 1 - 100 mg | - |
| 1 - 50 mg | - | - |
| 2 - 20 mg | - | - |
| 1 - 10 mg | - | - |
| 1 - 5 mg | - | - |
| 2 - 2 mg | - | - |
| 1 - 1 mg | - | - |
| **Piece Count** | | |
| 21 | 13 | 9 |
| **Total Weight** | | |
| 211.11 g | 211 g | 210 g |
| **Part #** | | |
| **30838**-Class E1 | **30842**-Class E1 | **30846**-Class E1 |
| **30839**-Class E2 | **30843**-Class E2 | **30847**-Class E2 |
| **30840**-Class F1 | **30844**-Class F1 | **30848**-Class F1 |
| **30841**-Class F2 | **30845**-Class F2 | **30849**-Class F2 |
| **119561**-Class M1 | - | **119560**-Class M1 |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |

**Not available for Class E1 or E2*



*PN 30838*
*Set includes lifting device and gloves (100 g to 1 mg)*





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# Metric Sets

Range: 200 g

| Class E1* | | | Class E2* | | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Set Size | Part # | Price |
| (2) 200 g - 1 mg | **40546** | $4,865.00 | 200 g - 1 mg | **40550** | $2,370.00 |
| 200 g - 100 mg | **40547** | $4,140.00 | (2) 200 g - 1 mg | **96468** | $2,640.00 |
| 200 g - 1 g | **40548** | $3,545.00 | 200 g - 100 mg | **40551** | $1,865.00 |
| 200 g - 100 g | **40549** | $2,100.00 | 200 g - 1 g | **40552** | $1,468.00 |
| **Accredited Certificate included, Statement of Accuracy not available, Class E1 or E2* | | | (2) 200 g - 1 g | **96469** | $1,770.00 |
| | | | (2) 200 g - 100 g | **40553** | $1,175.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

| Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 200 g - 1 mg | **40554** | $1,525.00 | **40558** | $1,499.00 | $930.00 | $660.00 |
| (2) 200 g - 1 mg | **96470** | $1,565.00 | **96472** | $1,525.00 | $1,020.00 | $675.00 |
| 200 g - 100 mg | **40555** | $1,170.00 | **40559** | $1,050.00 | $610.00 | $450.00 |
| (2) 200 g - 1 g | **96471** | $1,050.00 | **96473** | $999.00 | $450.00 | $325.00 |
| 200 g - 1 g | **40556** | $970.00 | **40560** | $950.00 | $540.00 | $370.00 |
| (2) 200 g - 100 g | **40557** | $665.00 | **40561** | $660.00 | $300.00 | $155.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

| Class M1 | | | Optional | Optional |
|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 200 g - 1 mg | **195668** | Consult | Consult | Consult |
| 200 g - 1 g | **195669** | Consult | Consult | Consult |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **Consult** | Consult |
| **Consult** | Consult |





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# Metric Sets

Range: 200 g

| Weight Set Contents | | | | | |
|---|---|---|---|---|---|
| **200 g - 1 mg** | **(2) 200 g - 1 mg** | **200 g - 100 mg** | **200 g - 1 g** | **(2) 200 g - 1 g** | **(2) 200 g - 100 g** |
| 1 - 200 g | 2 - 200 g | 1 - 200 g | 1 - 200 g | 2 - 200 g | 2 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | - |
| 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | - | - | - |
| 2 - 200 mg | 2 - 200 mg | 2 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 100 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | 1 - 50 mg | - | - | - | - |
| 2 - 20 mg | 2 - 20 mg | - | - | - | - |
| 1 - 10 mg | 1 - 10 mg | - | - | - | - |
| 1 - 5 mg | 1 - 5 mg | - | - | - | - |
| 2 - 2 mg | 2 - 2 mg | - | - | - | - |
| 1 - 1 mg | 1 - 1 mg | - | - | - | - |
| **Piece Count** | | | | | |
| 22 | 23 | 14 | 10 | 11 | 3 |
| **Total Weight** | | | | | |
| 411.11 g | 611.11 g | 611 g | 410 g | 610 g | 500 g |
| **Part #** | | | | | |
| – | **40546**-Class E1 | **40547**-Class E1 | **40548**-Class E1 | – | **40549**-Class E1 |
| **40550**-Class E2 | **96468**-Class E2 | **40551**-Class E2 | **40552**-Class E2 | **96469**-Class E2 | **40553**-Class E2 |
| **40554**-Class F1 | **96470**-Class F1 | **40555**-Class F1 | **40556**-Class F1 | **96471**-Class F1 | **40557**-Class F1 |
| **40558**-Class F2 | **96472**-Class F2 | **40559**-Class F2 | **40560**-Class F2 | **96473**-Class F2 | **40561**-Class F2 |
| **195668**-Class M1 | – | – | **195669**-Class M1 | – | – |

| Case Inserts | | |
|---|---|---|
| **Part #** | **Size** | **Price** |
| **30607** | 200 g - 1 mg | $175.00 |
| **84473** | (2) 200 g - 1 mg | $340.00 |
| **84472** | (2) 200 g - 1 g | $340.00 |
| **30608** | (2) 200 g - 100 g | $335.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |

**Not available for Class E1 or E2*





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# Metric Sets

Range: 500 g

| Class E1* | | | Class E2* | | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Set Size | Part # | Price |
| 500 g - 1 mg | **30822** | $5,845.00 | 500 g - 1 mg | **30823** | $3,110.00 |
| 500 g - 100 mg | **30826** | $5,170.00 | 500 g - 100 mg | **30827** | $2,690.00 |
| 500 g - 1 g | **30830** | $4,676.00 | 500 g - 1 g | **30831** | $2,158.00 |
| 500 g - 100 g | **30834** | $3,915.00 | 500 g - 100 g | **30835** | $1,575.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

**Accredited Certificate is included with Class E1 and Class E2 kits, Statement of Accuracy not available*

| Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 500 g - 1 mg | **30824** | $1,850.00 | **30825** | $1,575.00 | $1,120.00 | $715.00 |
| 500 g - 100 mg | **30828** | $1,650.00 | **30829** | $1,457.00 | $800.00 | $535.00 |
| 500 g - 1 g | **30832** | $1,375.00 | **30833** | $1,220.00 | $640.00 | $410.00 |
| 500 g - 100 g | **30836** | $1,200.00 | **30837** | $895.00 | $325.00 | $165.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |
| **34645** | $283.00 |

| Class M1 | | | Optional | Optional |
|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 500 g - 1 mg | **195670** | Consult | Consult | Consult |
| 500 g - 1 g | **195671** | Consult | Consult | Consult |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **Consult** | Consult |
| **Consult** | Consult |





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# Metric Sets

Range: 500 g

| Weight Set Contents | | | |
|---|---|---|---|
| **500 g - 1 mg** | **500 g - 100 mg** | **500 g - 1 g** | **500 g - 100 g** |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | - |
| 1 - 500 mg | 1 - 500 mg | - | - |
| 2 - 200 mg | 2 - 200 mg | - | - |
| 1 - 100 mg | 1 - 100 mg | - | - |
| 1 - 50 mg | - | - | - |
| 2 - 20 mg | - | - | - |
| 1 - 10 mg | - | - | - |
| 1 - 5 mg | - | - | - |
| 2 - 2 mg | - | - | - |
| 1 - 1 mg | - | - | - |
| **Piece Count** | | | |
| 24 | 16 | 12 | 4 |
| **Total Weight** | | | |
| 1.11111 kg | 1.111 kg | 1.11 kg | 1 kg |
| **Part #** | | | |
| **30822**-Class E1 | **30826**-Class E1 | **30830**-Class E1 | **30834**-Class E1 |
| **30823**-Class E2 | **30827**-Class E2 | **30831**-Class E2 | **30835**-Class E2 |
| **30824**-Class F1 | **30828**-Class F1 | **30832**-Class F1 | **30836**-Class F1 |
| **30825**-Class F2 | **30829**-Class F2 | **30833**-Class F2 | **30837**-Class F2 |
| **195670**-Class M1 | – | **195671**-Class M1 | – |

| Case Inserts | | |
|---|---|---|
| **Part #** | **Size** | **Price** |
| **30607** | 500 g - 1 mg | $175.00 |
| **30608** | 500 g - 100 g | $335.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50000** | Tong assembly 1 kg - 200 g | $64.00 |

**Not available for Class E1 or E2*





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# Metric Sets

Range: 1 kg

| Class E1* | | | Class E2* | | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Set Size | Part # | Price |
| 1 kg - 1 mg | **30806** | $6,680.00 | 1 kg - 1 mg | **30807** | $3,640.00 |
| 1 kg - 100 mg | **30810** | $5,645.00 | 1 kg - 100 mg | **30811** | $3,640.00 |
| 1 kg - 1 g | **30814** | $5,090.00 | 1 kg - 1 g | **30815** | $3,155.00 |
| 1 kg - 100 g | **30818** | $3,445.00 | 1 kg - 100 g | **30819** | $2,525.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **30605** | $1,675.00 |
| **30605** | $1,675.00 |
| **30605** | $1,675.00 |
| **30606** | $1,510.00 |

**Accredited Certificate included, Statement of Accuracy not available Class E1 or E2*

| Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 1 kg - 1 mg | **30808** | $2,626.00 | **30809** | $2,535.00 | $1,210.00 | $765.00 |
| 1 kg - 100 mg | **30812** | $2,525.00 | **30813** | $2,475.00 | $900.00 | $525.00 |
| 1 kg - 1 g | **30816** | $2,435.00 | **30817** | $2,415.00 | $730.00 | $455.00 |
| 1 kg - 100 g | **30820** | $2,135.00 | **30821** | $1,865.00 | $415.00 | $205.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **30605** | $1,675.00 |
| **30605** | $1,675.00 |
| **30605** | $1,675.00 |
| **30606** | $1,510.00 |

| Class M1 | | | Optional | Optional |
|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 1 kg - 1 mg | **159154** | $1,855.00 | Consult | Consult |
| 1 kg - 1 g | **159155** | $1,510.00 | Consult | Consult |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **Consult** | Consult |
| **Consult** | Consult |



*PN 30806*
*Set includes lifting device and gloves (1 kg to 1 mg)*





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# Metric Sets

Range: 1 kg

| Weight Set Contents | | | |
|---|---|---|---|
| **1 kg - 1 mg** | **1 kg - 100 mg** | **1 kg - 1 g** | **1 kg - 100 g** |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | - |
| 1 - 500 mg | 1 - 500 mg | - | - |
| 2 - 200 mg | 2 - 200 mg | - | - |
| 1 - 100 mg | 1 - 100 mg | - | - |
| 1 - 50 mg | - | - | - |
| 2 - 20 mg | - | - | - |
| 1 - 10 mg | - | - | - |
| 1 - 5 mg | - | - | - |
| 2 - 2 mg | - | - | - |
| 1 - 1 mg | - | - | - |
| **Piece Count** | | | |
| 25 | 17 | 13 | 5 |
| **Total Weight** | | | |
| 2.11111 kg | 2.111 kg | 2.11 kg | 2 kg |
| **Part #** | | | |
| **30806**-Class E1 | **30810**-Class E1 | **30814**-Class E1 | **30818**-Class E1 |
| **30807**-Class E2 | **30811**-Class E2 | **30815**-Class E2 | **30819**-Class E2 |
| **30808**-Class F1 | **30812**-Class F1 | **30816**-Class F1 | **30820**-Class F1 |
| **30809**-Class F2 | **30813**-Class F2 | **30817**-Class F2 | **30821**-Class F2 |
| **159154**-Class M1 | – | **159155**-Class M1 | – |

| Secondary Case | | |
|---|---|---|
| **Part #** | **Size** | **Price** |
| **34697** | 100 g - 1 mg | $190.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50000** | Tong assembly 1 kg - 200 g | $64.00 |

**Not available for Class E1 or E2*





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# Metric Sets

Range: 2 kg

| Class E1* | | | Class E2* | | |
|---|---|---|---|---|---|
| Set Size | Part 3 | Price | Set Size | Part # | Price |
| 2 kg - 1 mg | **40518** | $8,800.00 | 2 kg - 1 mg | **40523** | $4,550.00 |
| 2 kg - 100 mg | **40519** | $7,660.00 | (2) 2 kg -1 mg | **96455** | $5,005.00 |
| 2 kg - 1 g | **40520** | $6,417.00 | 2 kg - 1 g | **40525** | $3,590.00 |
| 2 kg - 100 g | **40521** | $4,700.00 | (2) 2 kg - 1 g | **96457** | $4,520.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **84474** | $1,680.00 |
| **96308** | $1,680.00 |
| **84474** | $1,680.00 |
| **96308** | $1,680.00 |

**Accredited Certificate included Statement of Accuracy not available, Class E1 or E2*

| Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 2 kg - 1 mg | **40528** | $3,575.00 | **40533** | $3,100.00 | $1,310.00 | $900.00 |
| (2) 2 kg -1 mg | **96459** | $3,740.00 | **96463** | $3,100.00 | $1,430.00 | $960.00 |
| 2 kg - 1 g | **40530** | $2,765.00 | **40535** | $2,735.00 | $840.00 | $510.00 |
| (2) 2 kg - 1 g | **96461** | $3,270.00 | **96465** | $3,150.00 | $960.00 | $570.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **96308** | $1,680.00 |
| **84474** | $1,680.00 |
| **96308** | $1,680.00 |
| **84474** | $1,680.00 |

| Class M1 | | | Optional | Optional |
|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 2 kg - 1 mg | **195672** | Consult | Consult | Consult |
| 2 kg - 1 g | **195673** | $624.00 | Consult | Consult |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **Consult** | Consult |
| **Consult** | Consult |





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# Metric Sets

Range: 2 kg

| Weight Set Contents | | | | | |
|---|---|---|---|---|---|
| **2 kg - 1 mg** | **2 kg - 100 mg** | **(2) 2 kg -1 mg** | **2 kg - 1 g** | **(2) 2 kg -1 g** | **2 kg - 100 g** |
| 1 - 2 kg | 1 - 2 kg | 2 - 2 kg | 1 - 2 kg | 2 - 2 kg | 1 - 2 kg |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | 1 - 50 g | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | 2 - 20 g | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | 1 - 10 g | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | 1 - 5 g | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | 2 - 2 g | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | 1 - 1 g | - |
| 1 - 500 mg | 1 - 500 mg | 1 - 500 mg | - | - | - |
| 2 - 200 mg | 2 - 200 mg | 2 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 100 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | - | 1 - 50 mg | - | - | - |
| 2 - 20 mg | - | 2 - 20 mg | - | - | - |
| 1 - 10 mg | - | 1 - 10 mg | - | - | - |
| 1 - 5 mg | - | 1 - 5 mg | - | - | - |
| 2 - 2 mg | - | 2 - 2 mg | - | - | - |
| 1 - 1 mg | - | 1 - 1 mg | - | - | - |
| **Piece Count** | | | | | |
| 26 | 18 | 27 | 14 | 15 | 6 |
| **Total Weight** | | | | | |
| 4.11111 kg | 4.111 kg | 6.11111 kg | 4.11 kg | 6.11 kg | 4.0 kg |
| **Part #** | | | | | |
| **40518**-Class E1 | **40519**-Class E1 | – | **40520**-Class E1 | – | **40521**- Class E1 |
| **40523**-Class E2 | – | **96455**-Class E2 | **40525**-Class E2 | **96457**-Class E2 | – |
| **40528**-Class F1 | – | **96459**-Class F1 | **40530**-Class F1 | **96461**-Class F1 | – |
| **40533**-Class F2 | – | **96463**-Class F2 | **40535**-Class F2 | **96465**-Class F2 | – |
| **195672**-Class M1 | – | – | **195673**-Class M1 | – | – |

| Secondary Case | | |
|---|---|---|
| **Part #** | **Size** | **Price** |
| **34697** | 100 g - 1 mg | $190.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50000** | Tong assembly 1 kg - 200 g | $64.00 |
| **50037** | Lifter, 5 kg and 2 kg | $47.00 |

**Not available for Class E1 or E2*





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# Metric Sets

Range: 5 kg

| Class E1* | | | Class E2* | | | Replacement Cases | |
|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Set Size | Part # | Price | Part # | Price |
| 5 kg - 1 mg | **30785** | $10,388.00 | 5 kg - 1 mg | **30786** | $5,917.00 | **30602** | $1,643.00 |
| 5 kg - 100 mg | **30789** | $9,990.00 | 5 kg - 100 mg | **30790** | $5,685.00 | **30602** | $1,643.00 |
| 5 kg - 1 g | **30793** | $9,600.00 | 5 kg - 1 g | **30794** | $5,125.00 | **30602** | $1,643.00 |
| 5 kg - 100 g | **30797** | $6,767.00 | 5 kg - 100 g | **30798** | $4,490.00 | **30603** | $1,643.00 |
| 5 kg - 1 kg | **30802** | $5,721.00 | 5 kg - 1 kg | **30803** | $3,816.00 | **30604** | $1,510.00 |

**Accredited Certificate included, Statement of Accuracy not available, Class E1 or E2*

| Class F1 | | | Class F2 | | Optional | Optional | Replacement Cases | |
|---|---|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate | Part # | Price |
| 5 kg - 1 mg | **30787** | $4,425.00 | **30788** | $4,050.00 | $1,400.00 | $840.00 | **30602** | $1,643.00 |
| 5 kg - 100 mg | **30791** | $4,506.00 | **30792** | $3,930.00 | $1,225.00 | $765.00 | **30602** | $1,643.00 |
| 5 kg - 1 g | **30795** | $4,165.00 | **30796** | $3,575.00 | $1,075.00 | $635.00 | **30602** | $1,643.00 |
| 5 kg - 100 g | **30800** | $3,821.00 | **30801** | $3,280.00 | $755.00 | $380.00 | **30603** | $1,643.00 |
| 5 kg - 1 kg | **30804** | $3,595.00 | **30805** | $3,025.00 | $385.00 | $220.00 | **30604** | $1,510.00 |

| Class M1 | | | Optional | Replacement Cases | |
|---|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Part # | Price |
| 5 kg - 1 mg | **126169** | $2,333.00 | $780.00 | **126164** | $211.00 |
| 5 kg - 1 g | **126168** | $2,019.00 | $490.00 | **126164** | $211.00 |





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# Metric Sets

Range: 5 kg

| Weight Set Contents | | | | |
|---|---|---|---|---|
| **5 kg - 1 mg** | **5 kg - 100 mg** | **5 kg - 1 g** | **5 kg - 100 g** | **5 kg - 1 kg** |
| 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg |
| 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | - |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | - |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | - |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | - | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | - | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | - | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | - | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | - | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | - | - |
| 1 - 500 mg | 1 - 500 mg | - | - | - |
| 2 - 200 mg | 2 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | - | - | - | - |
| 2 - 20 mg | - | - | - | - |
| 1 - 10 mg | - | - | - | - |
| 1 - 5 mg | - | - | - | - |
| 2 - 2 mg | - | - | - | - |
| 1 - 1 mg | - | - | - | - |
| **Piece Count** | | | | |
| 28 | 20 | 16 | 8 | 4 |
| **Total Weight** | | | | |
| 11.11111 kg | 11.111 kg | 11.11 kg | 11 kg | 10 kg |
| **Part #** | | | | |
| **30785**-Class E1 | **30789**-Class E1 | **30793**-Class E1 | **30797**-Class E1 | **30802**-Class E1 |
| **30786**-Class E2 | **30790**-Class E2 | **30794**-Class E2 | **30798**-Class E2 | **30803**-Class E2 |
| **30787**-Class F1 | **30791**-Class F1 | **30795**-Class F1 | **30800**-Class F1 | **30804**-Class F1 |
| **30788**-Class F2 | **30792**-Class F2 | **30796**-Class F2 | **30801**-Class F2 | **30805**-Class F2 |
| **126169**-Class M1 | – | **126168**-Class M1 | – | – |

| Secondary Case | | |
|---|---|---|
| **Part #** | **Size** | **Price** |
| **34697** | 100 g - 1 mg | $190.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50000** | Tong assembly 1 kg - 200 g | $64.00 |
| **50037** | Lifter, 5 kg and 2 kg | $47.00 |

**Not available for Class E1 or E2*





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# Metric Sets

Range: 10kg

| Class E2* | | |
|---|---|---|
| Set Size | Part # | Price |
| 10kg - 1mg | **65213** | $8,410.00 |
| 10kg - 100mg | **96419** | $8,135.00 |
| 10kg - 1g | **96415** | $7,900.00 |
| 10kg - 100g | **96420** | $6,910.00 |
| 10kg - 1kg | **96421** | $6,170.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |

**Accredited Certificate included, Statement of Accuracy not available Class E2*

| Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 10kg - 1mg | **65214** | $6,965.00 | **65215** | $6,190.00 | $1,500.00 | $900.00 |
| 10kg - 100mg | **96429** | $6,845.00 | **96445** | $6,085.00 | $1,325.00 | $820.00 |
| 10kg - 1g | **96430** | $6,730.00 | **96446** | $5,995.00 | $1,180.00 | $690.00 |
| 10kg - 100g | **96467** | $6,310.00 | **96444** | $5,510.00 | $870.00 | $440.00 |
| 10kg - 1kg | **96432** | $5,645.00 | **96448** | $5,030.00 | $530.00 | $280.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |
| **65218** | $2,095.00 |

| Class M1 | | | Optional | Optional |
|---|---|---|---|---|
| Set Size | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 10kg - 1mg | **195676** | Consult | Consult | Consult |
| 10kg - 1g | **195677** | Consult | Consult | Consult |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **Consult** | Consult |
| **200297** | Consult |

| Additional Accessories | | |
|---|---|---|
| Part # | Description | Price |
| **11714** | Weight glove, white cotton | $6.00 |
| **152414** | Premium tweezer | $37.00 |





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# Metric Sets

Range: 10 kg

| Weight Set Contents | | | | |
|---|---|---|---|---|
| **10 kg - 1 mg** | **10 kg - 100 mg** | **10 kg - 1 g** | **10 kg - 100 g** | **10 kg - 1 kg** |
| 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg |
| 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg |
| 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | - |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | - |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | - |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | - | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | - | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | - | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | - | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | - | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | - | - |
| 1 - 500 mg | 1 - 500 mg | - | - | - |
| 2 - 200 mg | 2 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | - | - | - | - |
| 2 - 20 mg | - | - | - | - |
| 1 - 10 mg | - | - | - | - |
| 1 - 5 mg | - | - | - | - |
| 2 - 2 mg | - | - | - | - |
| 1 - 1 mg | - | - | - | - |
| **Piece Count** | | | | |
| 29 | 21 | 17 | 9 | 5 |
| **Total Weight** | | | | |
| 21.11111 kg | 21.11105 kg | 21.111 kg | 21 kg | 20 kg |
| **Part #** | | | | |
| **65213**-Class E2 | **96419**-Class E2 | **96415**-Class E2 | **96420**-Class E2 | **96421**-Class E2 |
| **65214**-Class F1 | **96429**-Class F1 | **96430**-Class F1 | **96467**-Class F1 | **96432**-Class F1 |
| **65215**-Class F2 | **96445**-Class F2 | **96446**-Class F2 | **96444**-Class F2 | **96448**-Class F2 |
| **195676**-Class M1 | – | **195677**-Class M1 | – | – |

| Secondary Case | | |
|---|---|---|
| **Part #** | **Size** | **Price** |
| **34697** | 100 g - 1 mg | $190.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 g - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50000** | Tong assembly 1 kg - 200 g | $64.00 |
| **50037** | Lifter, 5 kg and 2 kg | $47.00 |

**Not available for Class E2*



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# Metric

Range: 20 kg

| Class E2* | | |
|---|---|---|
| Set Size | Part # | Price |
| 20 kg - 1 mg | **65210** | $11,665.00 |
| 20 kg - 100 mg | **96416** | $11,350.00 |
| 20 kg - 1 g | **96414** | $11,005.00 |
| 20 kg - 100 g | **96417** | $10,075.00 |
| 20 kg - 1 kg | **96418** | $8,965.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |

**Accredited Certificate included, Statement of Accuracy not available, Class E2*

| Class F1 | | | Class F2 | | Optional | Optional |
|---|---|---|---|---|---|---|
| Set Size | Part # | Price | Part # | Price | Accredited Certificate | Non-accredited Certificate |
| 20 kg - 1 mg | **65211** | $9,100.00 | **65212** | $8,095.00 | $1,680.00 | $1,025.00 |
| 20 kg - 100 mg | **96428** | $8,940.00 | **96447** | $7,960.00 | $1,445.00 | $885.00 |
| 20 kg - 1 g | **96425** | $8,840.00 | **96441** | $7,875.00 | $1,285.00 | $760.00 |
| 20 kg - 100 g | **96426** | $8,420.00 | **96442** | $7,500.00 | $975.00 | $500.00 |
| 20 kg - 1 kg | **96427** | $7,755.00 | **96443** | $6,905.00 | $645.00 | $340.00 |

| Replacement Cases | |
|---|---|
| Part # | Price |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |
| **65219** | $1,988.00 |





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# Metric

Range: 20 kg

| Weight Set Contents | | | | |
|---|---|---|---|---|
| **20 kg - 1 mg** | **20 kg - 100 mg** | **20 kg - 1 g** | **20 kg - 100 g** | **20 kg - 1 kg** |
| 1 - 20 kg | 1 - 20 kg | 1 - 20 kg | 1 - 20 kg | 1 - 20 kg |
| 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg | 1 - 10 kg |
| 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg | 1 - 5 kg |
| 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg | 2 - 2 kg |
| 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg | 1 - 1 kg |
| 1 - 500 g | 1 - 500 g | 1 - 500 g | 1 - 500 g | - |
| 2 - 200 g | 2 - 200 g | 2 - 200 g | 2 - 200 g | - |
| 1 - 100 g | 1 - 100 g | 1 - 100 g | 1 - 100 g | - |
| 1 - 50 g | 1 - 50 g | 1 - 50 g | - | - |
| 2 - 20 g | 2 - 20 g | 2 - 20 g | - | - |
| 1 - 10 g | 1 - 10 g | 1 - 10 g | - | - |
| 1 - 5 g | 1 - 5 g | 1 - 5 g | - | - |
| 2 - 2 g | 2 - 2 g | 2 - 2 g | - | - |
| 1 - 1 g | 1 - 1 g | 1 - 1 g | - | - |
| 1 - 500 mg | 1 - 500 mg | - | - | - |
| 2 - 200 mg | 2 - 200 mg | - | - | - |
| 1 - 100 mg | 1 - 100 mg | - | - | - |
| 1 - 50 mg | - | - | - | - |
| 2 - 20 mg | - | - | - | - |
| 1 - 10 mg | - | - | - | - |
| 1 - 5 mg | - | - | - | - |
| 2 - 2 mg | - | - | - | - |
| 1 - 1 mg | - | - | - | - |
| **Piece Count** | | | | |
| 30 | 22 | 18 | 10 | 6 |
| **Total Weight** | | | | |
| 41.11111 kg | 41.11105 kg | 41.111 kg | 41 kg | 40 kg |
| **Part #** | | | | |
| **65210**-Class E2 | **96416**-Class E2 | **96414**-Class E2 | **96417**-Class E2 | **96418**-Class E2 |
| **65211**-Class F1 | **96428**-Class F1 | **96425**-Class F1 | **96426**-Class F1 | **96427**-Class F1 |
| **65212**-Class F2 | **96447**-Class F2 | **96441**-Class F2 | **96442**-Class F2 | **96443**-Class F2 |

| Secondary Case | | |
|---|---|---|
| **Part #** | **Size** | **Price** |
| **34697** | 100 g - 1 mg | $190.00 |

| Additional Accessories | | |
|---|---|---|
| **Part #** | **Description** | **Price** |
| **36092** | Statement of Accuracy* | $45.00 |
| **11714** | Weight glove, white cotton | $6.00 |
| **11711** | Tweezer | $4.00 |
| **152414** | Premium tweezer | $37.00 |
| **25836** | Serial number | $16.00 |
| **50035** | Weight forceps, plastic, 200 - 500 g | $37.00 |
| **11755** | Leaf weight cover | $37.00 |
| **50000** | Tong assembly 1 kg - 200 g | $64.00 |
| **50037** | Lifter, 5 and 2 kg | $47.00 |

**Not available for Class E2*



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# Sealing Plugs



## Sealing Plugs

| Part # | Diameter | Price |
|---|---|---|
| **Lead Plugs** | | |
| **11749** | 2 3/4 in (69.8 mm) | $4.50 |
| **11750** | 1 7/8 in (47.6 mm) | $4.00 |
| **11751** | 1 in (25.4 mm) | $3.50 |
| **11752** | 1/2 in (12.7 mm) | $3.50 |
| **11753** | 1 1/4 in (31.7 mm) | $3.50 |
| **11760** | 9/16 in (14.3 mm) | $3.50 |
| **11761** | 5/8 in (15.9 mm) | $3.50 |
| **11765** | 3/4 in (19.1 mm) | $3.50 |
| **11785** | 7/8 in (22.2 mm) | $3.50 |
| **Aluminum Plugs** | | |
| **11744** | 3/8 in (9.5 mm) | $2.00 |
| **11745** | 1/2 in (12.7 mm) | $2.00 |
| **11746** | 5/8 in (15.9 mm) | $2.00 |
| **11762** | 1 in (25.4 mm) | $2.00 |
| **11767** | 9/16 in (14.3 mm) | $3.50 |
| **11775** | 7/8 in (22.2 mm) | $3.00 |
| **11776** | 3/4 in (19.1 mm) | $2.00 |
| **Backup Plugs** | | |
| **11748** | 2 3/4 in (69.8 mm) | $5.00 |
| **11766** | 3/4 in (19.1 mm) | $4.00 |
| **11710** | 1 in (25.4 mm) | $2.00 |
| **11699** | 1 7/8 in (47.6 mm) | $2.00 |
| **Backup Plugs Stainless Steel** | | |
| **44992** | 1 in (25.4 mm) | $2.00 |
| **44993** | 5/8 in (15.9 mm) | $4.00 |
| **44994** | 3/8 in (9.5 mm) | $4.50 |
| **Stainless Steel Plugs** | | |
| **11709** | 15/16 in (23.0 mm) | $3.50 |





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# Gloves/Transfer Equipment

## Cotton 11714

- Essential tool for proper weight-handling
- Proper protection for preventing hand residue
- Residue can throw off a weight's calibration and certification for accuracy
- Rice Lake recommends using cotton gloves to handle all precision weights

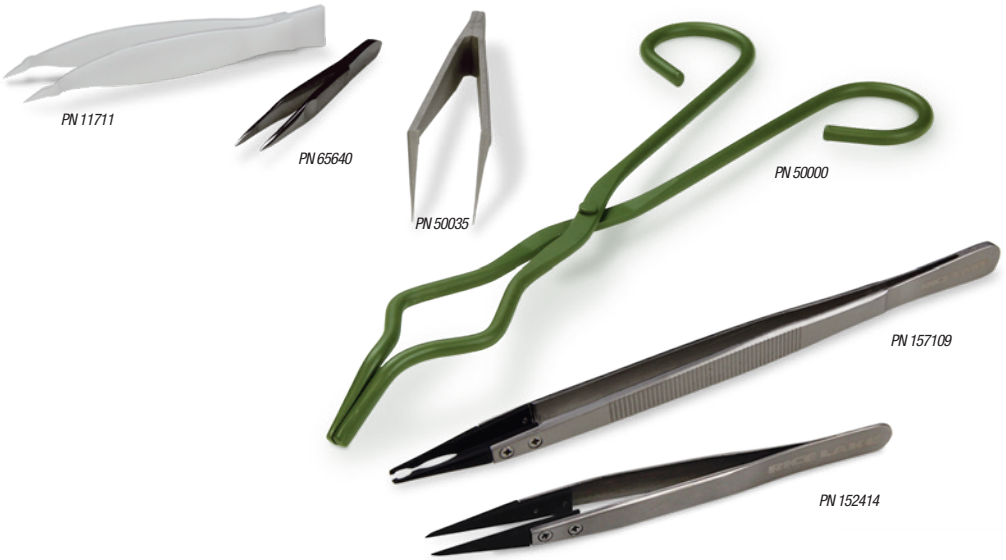
## Plastic 11773

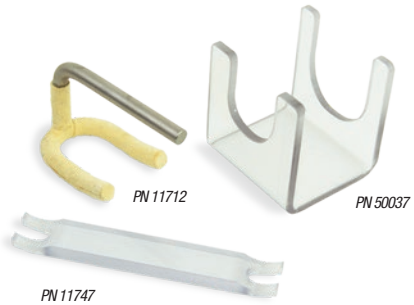
- Plastic gloves are an acceptable handling tool to keep dirt and residue off your weights
- Better than handling precision weights bare-handed
- Plastic gloves are economical, disposable, convenient, and help maintain the integrity of your weights




## Gloves

| Part # | Description | Price |
|---|---|---|
| **11714** | White cloth glove | $6.00 |
| **11773** | Vinyl glove | $2.50 |




## Transfer Equipment

| Part # | Description | Price |
|---|---|---|
| **11711** | Forceps, 3 5/8 in 100 g - 1 mg | $4.00 |
| **50035** | Forceps, 4 3/4 in | $37.00 |
| **11747** | Plastic bar 200 g - 3 kg, screw knob weights | $17.00 |
| **11712** | Metal handle 5 kg +, screw knob weights | $63.00 |
| **65640*** | Metal forceps | $17.00 |
| **50037** | Weight lifter, OIML 2 kg and 5 kg | $47.00 |
| **50000** | Tong assembly, 24 cm x 7.5 cm | $64.00 |
| **152414** | Tweezers, premium, 140 mm | $37.00 |
| **157109** | Tweezers, premium, 220 mm | $42.00 |

**Not recommended for use with polished weights.*





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# Cases



### Guidelines for Selecting a Case

- Find the diameter, height and total mass of the weights that will need a case
- Review case dimensions to determine best fit
- Note weight limits of the case and choose accordingly

### Things to keep in mind:

- Foam needs 0.5 inches between weights and edge of case
- Always select the smallest case that best fits your need
- Weights should always be stored and transported in the upright position
- The shoulder edge of the weight should be level with the foam insert
- Some cases are recommended for storage only and should not be used for shipping

## Medium-Duty Cases

Medium-duty cases are primarily used for manually transporting test weights as they effectively absorb shock and resist changes in environment.

### ABS Plastic Part Numbers 11531, 11534 and 11572

- ABS plastic is considered superior for its strength, gloss, and electrical insulation properties—an excellent choice for encasing weights
- All metal hardware establishes the security of your weights
- Top-mounted handle makes transporting the weights effortless
- Custom-cut foam inserts are used for insulating between the weights
- Three sizes available

### Wooden Case Part Number 34645

- Walnut-constructed and felt-lined
- Built-to-order and designed specifically for our weight sets
- Available in 5 kg - 20 kg capacities
- Secured by hinged latches
- Case keeps weights free of dust and contaminants
- Protects your weights in storage and during transportation
- Cases should be packed in an external box during shipping to protect them

### PVC Case Part Number 11596

- Available in capacities from 100 g - 1 mg for precision laboratory SST weight sets
- Also available for ASTM Class 0 weights in 100 g - 1 mg capacities

## Light-Duty/Single Weight Cases

Light-duty/single weight cases can be used for storage and shipping smaller capacity weights within additional materials.

### Plastic Case Part Number 87982

- Light-duty plastic cases are used for shipping lighter capacity weights—typically single weights not exceeding 5 lb
- Plastic hinges, latches, and side mounted handle keep this case extremely lightweight and portable
- Uncut foam is included while custom-cut is available for an extra charge
- Custom-cut foam insert protects each weight from impact during transport

### Leatherette Case Part Numbers 69229 and 69429

- Secure storage of single weights with snap lid
- Considered light duty and used for storage and shipping
- Leatherette in a non-porous material—ideal weight protection
- Two sizes of leatherette cases available

### Acrylic, Clean Room Case Part Numbers 89179 and 89180

- Ideal for all clean room environments
- Tough, clear acrylic protects your valuable investment
- Provide compliance for stringent clean room requirements
- Not recommended for shipping, developed exclusively for storage
- Available as an accessory only
- Rice Lake recommends shipping weights using wooden or plastic weight cases

## Industrial-Quality Cases

These heavy-duty cases are designed to be used in place of large wooden cases when portability is desired. The recessed latches provide protection insurance for your weights.

### Black Thermo-formed Cases 156989, 156285 and 156284

- Excellent for transporting weights
- Recessed, heavy-duty latches confidently secure contents
- Ergonomic handles retain preferred treatment of weights
- Metal hardware resists natural wear and tear
- Special case cuttings are required for heavy duty cases at an additional charge

### Black Injection-Molded Watertight Case 158121

- Designed for custom weight sets
- Ergonomic top-mounted handle provides ideal weight positioning
- Interior is custom-molded to the weights to be stored



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*Shown with optional insert*

## Pelican Cases

| Part # | Width | Length | Closed Height | Max Load | Price |
|---|---|---|---|---|---|
| **21230** | 22 in | 17 in | 8 in | 45 lb | $360.00 |
| **21229** | 17 in | 11 3/4 in | 6 in | 50 lb | $242.00 |

## Replacement Cases

| Part # | Width | Length | Closed Height | Max Load | Price |
|---|---|---|---|---|---|
| **Acrylic Clean Room Cases** | | | | | |
| **89180** | 8.7 in | 4.7 in | 2.8 in | | $196.00 |
| **89179** | 6.04 in | 3.04 in | 1.8 in | | $105.00 |
| **89181** | 12 in | 5 1/4 in | 4 in | | $310.00 |
| **89182** | 13 1/4 in | 8 1/2 in | 5 3/4 in | | $490.00 |
| **Leatherette** | | | | | |
| **69429** | 3 3/4 in | 1 7/8 in | 1 1/16 in | 3 lb | $32.00 |
| **69229** | 3 7/16 in | 2 1/2 in | 7/8 in | 1 lb | $32.00 |
| **Polycarbonate Cases** | | | | | |
| **Consult** | 4.25 in | 4.25 in | 4.875 in | | $32.00 |
| **Consult** | 3.12 in | 3.12 in | 3.61 in | | $32.00 |
| **Consult** | 2.25 in | 2.25 in | 2.45 in | | $35.00 |
| **Plastic** | | | | | |
| **87982** | 12 in | 8 in | 3 1/2 in | 5 lb | $70.00 |
| **ABS Plastic** | | | | | |
| **11531** | 13 1/2 in | 7 5/8 in | 6 in | 40 lb | $211.00 |
| **11534** | 14 3/8 in | 9 3/8 in | 7 5/8 in | 55 lb | $222.00 |
| **11572** | 8 3/8 in | 6 1/2 in | 7 1/8 in | 25 lb | $160.00 |
| **Sealers Cube Wt - with precut foam insert** | | | | | |
| **40783** | 14 3/8 in | 9 3/8 in | 7 5/8 in | | $305.00 |
| **Heavy Duty Industrial Cases** | | | | | |
| **156989** | 16.3 in | 22.4 in | 10.5 in | 95 lb | $725.00 |
| **156285** | 11.4 in | 16.4 in | 9.0 in | 55 lb | $485.00 |
| **158121** | 9.5 in | 12.63 in | 4.75 in | 20 lb | $278.00 |
| **156284** | 9.9 in | 9.9 in | 11.0 in | 60 lb | $390.00 |
| **Protection Containers** | | | | | |
| **80420** | Capsule | | | | $4.00 |
| **50038** | Vial | | | | $4.00 |



*PN 87982*




*PN 11534*



*PN 158121*



*PN 156989*



*PN 156285*



*PN 156284*



*Polycarbonate Cases*



*PN 21230*



*PN 11531*



*PN 11572*



*PN 69429*



*PN 69229*



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# Transfer Cart/Touch-Up Paint/Canvas Dust Covers



PN 11702

*Transfer Carts*



PN 11700



## Transfer Cart

| Part # | Width | Length | Height | Price |
|---|---|---|---|---|
| **11700** | 36 1/2 in(927.1 mm) | 74 1/2 in (1892.3 mm) | 29 in (736.6 mm) | $1,468.00 |
| *For use on smooth, level surfaces— especially for moving 500 or 1,000 lb heavy-capacity weights.* | | | | |
| **11702** | 25 in (635 mm) | 37.5 in (952.5 mm) | 14.5 in (368.3 mm) | $1,680.00 |
| *For use on smooth, level surfaces—for holding up to fifteen 50 lb grip-handle weights.* | | | | |
| **Hook Replacement Parts** | | | | |
| **22643** | Short hook for 1,000 lb weight | | | $42.00 |
| **22644** | Long hook for 500 lb weight | | | $42.00 |




## Touch-Up/Repair Paint

| Part # | Color | Price |
|---|---|---|
| **88561** | Aerosol spray (gold) | $27.00 |
| **88562** | Aerosol spray (silver) | $27.00 |
| **88563** | Aerosol spray (primer) | $27.00 |

*Spray paint ships UPS ground only*



## Canvas Dust Covers

| Weight Part # | Capacity | Cover Part # | Price |
|---|---|---|---|
| **12890** | 200 lb | **11720** | $185.00 |
| **12844** | 500 lb | **11722** | $185.00 |
| **12880** | 750 lb | **11723** | $185.00 |
| **12850** | 1,000 lb | **11724** | $185.00 |
| **12858** | 1,250 lb | **11727** | $185.00 |
| **12866** | 2,000 lb | **11729** | $185.00 |
| **12817** | 100 kg | **11738** | $185.00 |
| **12782** | 250 kg | **11740** | $185.00 |
| **12797** | 500 kg | **11741** | $185.00 |
| **12801** | 1,000 kg | **11742** | $185.00 |
| **12821** | 2,000 kg | **11743** | $185.00 |





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# Checkweighers

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# IQ Plus® 2100

Digital Bench Scale



*IQ plus 2100 with attachment bracket*



*IQ plus 2100 with column*



*IQ plus 2100 with tilt stand*

## Standard Features

- NEMA Type 4X/IP66
- 304 stainless steel construction
- Large, bold 0.8 in light emitting diode (LED) display
- Status annunciators: lb, kg, oz, g, negative, motion, center of zero
- One full-duplex RS-232 port
- Two digital inputs for remote zero, print and units
- 12 in column, attachment bracket or tilt stand for table, wall or under counter mounting
- Aluminum, single-point load cell
- Overload and upload stops on scale base
- Stainless steel, non-tactile feel, piezo zero and units buttons
- Unit of measure: kg, gm, lb, oz, lb/oz (lb/oz is not Legal for Trade)
- PreVent™ breather vent
- Factory Calibrated

## Approvals

## Specifications

**Power-AC:**
Line Voltages:
115 or 230 VAC

**Frequency:**
50 or 60 Hz

**Power Consumption:**
70 mA at 115 VAC (8 W)
35 mA at 230 VAC (8 W)

**Display Resolution:**
10,000 graduations maximum

**Digital Inputs:**
Two inputs, TTL or switch closure, active-low

**Serial Communications:**
Full-duplex RS-232; 9600, 4800, 2400, 1200 bps; seven or eight data bits; even, odd or no parity

**Display:**
Six-digit light-emitting diode (LED) display
Seven-segment, 0.8 in (20 mm) digits

**LED Annunciators:**
Negative value, center of zero, motion, kg, g, lb, oz

**Keypad:**
Two stainless steel piezo switches

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Rating/Material:**
NEMA Type 4X/IP66, stainless steel

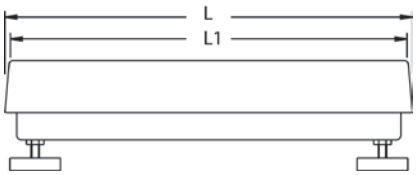
**Load Cell:**
Aluminum, environmentally sealed

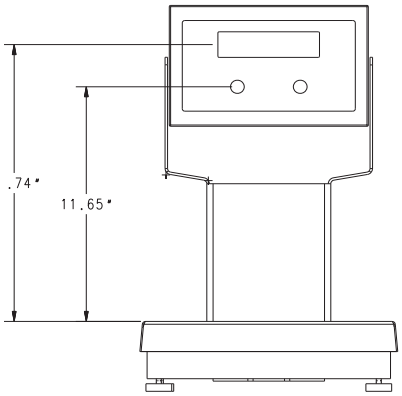
**Warranty:**
Two-year limited warranty

**Approvals:**
**Indicator:**
NTEP CC 00-045 Class III/IIIL 10,000 d
Measurement Canada AM-5374;
UL and C-UL listed
**Base:**
NTEP CC 95-072, Class III 5,000 d

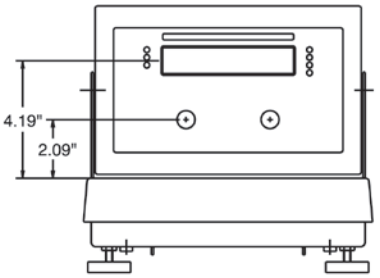
## Dimensions

| Platform Dimensions | L | L1 |
|---|---|---|
| 10 x 10 in (254 x 254 mm) | 10.25 in (260.4 mm) | 10 in (254 mm) |
| 12 x 12 in (304.8 x 304.8 mm) | 12.25 in (311.2 mm) | 12 in (304.8 mm) |




*With 12 in column*




*With attachment bracket*



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## Part Number/Price

| Part # | Capacity | Platform Size* | Est. Weight | Price |
|---|---|---|---|---|
| **IQ plus 2100 with tilt stand - 115 VAC** | | | | |
| **63053**† | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) (2,500 g x 0.5 g) (80 oz x 0.02 oz) | 10 x 10 in | 23 lb | $1,235.00 |
| **63052**† | 10 lb x 0.002 lb (5 kg x 0.001 kg) (5,000 g x 1 g) (160 oz x 0.05 oz) | 10 x 10 in | 23 lb | $1,235.00 |
| **63051**† | 25 lb x 0.005 lb (10 kg x 0.002 kg) (10,000 g x 2 g) (400 oz x 0.10 oz) | 10 x 10 in | 23 lb | $1,235.00 |
| **63050**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.20 oz) | 12 x 12 in | 26 lb | $1,315.00 |
| **63049**† | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 12 in | 26 lb | $1,315.00 |
| **IQ plus 2100 with attachment bracket - 115 VAC** | | | | |
| **63043**† | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) (2,500 g x 0.5 g) (80 oz x 0.02 oz) | 10 x 10 in | 23 lb | $1,235.00 |
| **63042**† | 10 lb x 0.002 lb (5 kg x 0.001 kg) (5,000 g x 1 g) (160 oz x 0.05 oz) | 10 x 10 in | 23 lb | $1,235.00 |
| **63041**† | 25 lb x 0.005 lb (10 kg x 0.002 kg) (10,000 g x 2 g) (400 oz x 0.10 oz) | 10 x 10 in | 23 lb | $1,235.00 |
| **63040**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.20 oz) | 12 x 12 in | 26 lb | $1,315.00 |
| **63039**† | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 12 in | 26 lb | $1,315.00 |
| **IQ plus 2100 with 12 in column - 115 VAC** | | | | |
| **63048**† | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) (2,500 g x 0.5 g) (80 oz x 0.02 oz) | 10 x 10 in | 25 lb | $1,235.00 |
| **63047**† | 10 lb x 0.002 lb (5 kg x 0.001 kg) (5,000 g x 1 g) (160 oz x 0.05 oz) | 10 x 10 in | 25 lb | $1,235.00 |
| **63046**† | 25 lb x 0.005 lb (10 kg x 0.002 kg) (10,000 g x 2 g) (400 oz x 0.10 oz) | 10 x 10 in | 25 lb | $1,235.00 |
| **63045**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.20 oz) | 12 x 12 in | 28 lb | $1,315.00 |
| **63044**† | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 12 in | 28 lb | $1,315.00 |
| **IQ plus 2100 with 12 in column - 230 VAC** | | | | |
| **63063**†† | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) (2,500 g x 0.5 g) (80 oz x 0.02 oz) | 10 x 10 in | 25 lb | $1,235.00 |
| **63062**†† | 10 lb x 0.002 lb (5 kg x 0.001 kg) (5,000 g x 1 g) (160 oz x 0.05 oz) | 10 x 10 in | 25 lb | $1,235.00 |
| **63061**†† | 25 lb x 0.005 lb (10 kg x 0.002 kg) (10,000 g x 2 g) (400 oz x 0.10 oz) | 10 x 10 in | 25 lb | $1,235.00 |
| **63060**†† | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.20 oz) | 12 x 12 in | 28 lb | $1,315.00 |
| **63059**†† | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 12 in | 28 lb | $1,315.00 |
| **IQ plus 2100 with 18 in column - 115 VAC** | | | | |
| **72476**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.02 oz) | 12 x 18 in | 37 lb | $1,545.00 |
| **72477**† | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 18 in | 37 lb | $1,545.00 |
| **72478**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.02 oz) | 18 x 18 in | 68 lb | $1,890.00 |
| **72479**† | 150 lb x 0.05 lb (75 kg x 0.02 kg) (75,000 g x 20 g) (2,400 oz x 0.50 oz) | 18 x 18 in | 68 lb | $1,890.00 |
| **72480**† | 300 lb x 0.1 lb (150 kg x 0.05 kg) (150,000 g x 50 g) (4,800 oz x 1 oz) | 18 x 18 in | 68 lb | $1,890.00 |
| **72481**† | 500 lb x 0.1 lb (250 kg x 0.05 kg) (250,000 g x 50 g) (8,000 oz x 2 oz) | 18 x 18 in | 68 lb | $1,890.00 |
| **72482**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.02 oz) | 18 x 24 in | 78 lb | $2,125.00 |
| **72483**† | 150 lb x 0.05 lb (75 kg x 0.02 kg) (75,000 g x 20 g) (2,400 oz x 0.50 oz) | 18 x 24 in | 78 lb | $2,125.00 |
| **72484**† | 300 lb x 0.1 lb (150 kg x 0.05 kg) (150,000 g x 50 g) (4,800 oz x 1 oz) | 18 x 24 in | 78 lb | $2,125.00 |
| **72485**† | 500 lb x 0.1 lb (250 kg x 0.05 kg) (250,000 g x 50 g) (8,000 oz x 2 oz) | 18 x 24 in | 78 lb | $2,125.00 |
| **72486**† | 1,000 lb x 0.2 lb (500 kg x 0.1 kg) (500,000 g x 100 g) (16,000 oz x 5 oz) | 18 x 24 in | 78 lb | $2,125.00 |
| **72487**† | 150 lb x 0.05 lb (75 kg x 0.02 kg) (75,000 g x 20 g) (2,400 oz x 0.50 oz) | 24 x 24 in | 84 lb | $2,470.00 |
| **72488**† | 300 lb x 0.1 lb (150 kg x 0.05 kg) (150,000 g x 50 g) (4,800 oz x 1 oz) | 24 x 24 in | 84 lb | $2,470.00 |
| **72489**† | 500 lb x 0.1 lb (250 kg x 0.05 kg) (250,000 g x 50 g) (8,000 oz x 2 oz) | 24 x 24 in | 84 lb | $2,470.00 |
| **72490**† | 1,000 lb x 0.2 lb (500 kg x 0.1 kg) (500,000 g x 100 g) (16,000 oz x 5 oz) | 24 x 24 in | 84 lb | $2,470.00 |

† *NEMA 5-15 plug*

†† *CEE 7/7 plug*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult*** ** | 18 in column replacing standard 12 in column | +$50.00 list price add on |

** To convert inches to millimeters: Multiply inch measurement by 25.4*

**** Not recommended for use with scale bases smaller than 12 x 12 in*





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# IQ Plus® 2100SL

Digital Bench Scale



*IQ plus 2100SL with attachment bracket*



*IQ plus 2100 with column*



*IQ plus 2100 with tilt stand*

## Standard Features

- NEMA Type 4X/IP66
- 304 stainless steel construction
- Large, bold 0.8 in light emitting diode (LED) display
- Status annunciators: lb, kg, oz, g, negative, motion, center of zero
- One full-duplex RS-232 port
- Two digital inputs for remote zero, print and units
- 12 in column, attachment bracket or tilt stand for table, wall or under counter mounting
- Aluminum, single-point load cell
- Overload and upload stops on scale base
- Stainless steel, non-tactile feel, piezo zero and units buttons
- Unit of measure: kg, gm, lb, oz, lb/oz (lb/oz is not Legal for Trade)
- PreVent™ breather vent
- Spring-loaded platform
- Factory Calibrated

## Approvals

## Specifications

**Power-AC:**
Line Voltages:
115 or 230 VAC

**Frequency:**
50 or 60 Hz

**Power Consumption:**
70 mA at 115 VAC (8 W)
35 mA at 230 VAC (8 W)

**Display Resolution:**
10,000 graduations maximum

**Digital Inputs:**
Two inputs, TTL or switch closure, active-low

**Serial Communications:**
Full-duplex RS-232; 9600, 4800, 2400, 1200 bps; seven or eight data bits; even, odd or no parity

**Display:**
Six-digit light emitting diode (LED) display
Seven-segment, 0.8 in (20 mm) digits

**LED Annunciators:**
Negative value, center of zero, motion, kg, g, lb, oz

**Keypad:**
Two stainless steel piezo switches

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Rating/Material:**
NEMA Type 4X/IP66, stainless steel

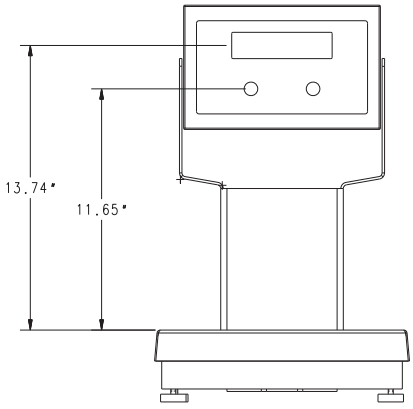
**Load Cell:**
Aluminum, environmentally sealed

**Warranty:**
Two-year limited warranty

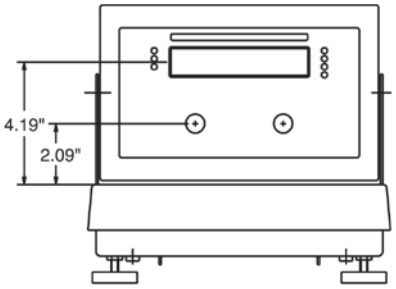
**Approvals:**
**Indicator:**
NTEP CC 00-045 Class III/IIIL 10,000 d
Measurement Canada, AM-5374;
UL and C-UL listed
**Base:**
NTEP CC 95-072, Class III 5,000 d

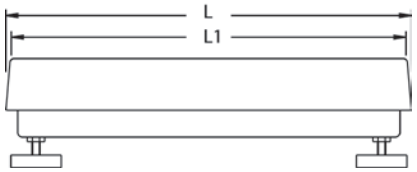
## Dimensions

| Platform Dimensions | L | L1 |
|---|---|---|
| 10 x 10 in (254 x 254 mm) | 10.25 in (260.4 mm) | 10 in (254 mm) |
| 12 x 12 in (304.8 x 304.8 mm) | 12.25 in (311.2 mm) | 12 in (304.8 mm) |




*With 12 in column*






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## Part Number/Price

| Part # | Capacity | Platform Size* | Est. Weight | Price |
|---|---|---|---|---|
| **IQ plus 2100SL with tilt stand - 115 VAC** | | | | |
| **65168** | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) (2,500 g x 0.5 g) (80 oz x 0.02 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65169** | 10 lb x 0.002 lb (5 kg x 0.001 kg) (5,000 g x 1 g) (160 oz x 0.05 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65170** | 20 lb x 0.005 lb (10 kg x 0.002 kg) (10,000 g x 2 g) (320 oz x 0.1 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65171** | 30 lb x 0.01 lb (15 kg x 0.005 kg) (15,000 g x 5 g) (480 oz x 0.1 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65172** | 30 lb x 0.01 lb (15 kg x 0.005 kg) (15,000 g x 5 g) (480 oz x 0.1 oz) | 12 x 12 in | 24 lb | $1,365.00 |
| **65173** | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.20 oz) | 12 x 12 in | 24 lb | $1,365.00 |
| **65174** | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 12 in | 24 lb | $1,365.00 |
| **IQ plus 2100SL with attachment bracket - 115 VAC** | | | | |
| **65175** | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) (2,500 g x 0.5 g) (80 oz x 0.02 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65176** | 10 lb x 0.002 lb (5 kg x 0.001 kg) (5,000 g x 1 g) (160 oz x 0.05 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65177** | 20 lb x 0.005 lb (10 kg x 0.002 kg) (10,000 g x 2 g) (320 oz x 0.1 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65178** | 30 lb x 0.01 lb (15 kg x 0.005 kg) (15,000 g x 5 g) (480 oz x 0.1 oz) | 10 x 10 in | 21 lb | $1,285.00 |
| **65179** | 30 lb x 0.01 lb (15 kg x 0.005 kg) (15,000 g x 5 g) (480 oz x 0.1 oz) | 12 x 12 in | 24 lb | $1,365.00 |
| **65180** | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.20 oz) | 12 x 12 in | 24 lb | $1,365.00 |
| **65181** | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 12 in | 24 lb | $1,365.00 |
| **IQ plus 2100SL with 12 in column - 115 VAC** | | | | |
| **65182** | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) (2,500 g x 0.5 g) (80 oz x 0.02 oz) | 10 x 10 in | 23 lb | $1,285.00 |
| **65183** | 10 lb x 0.002 lb (5 kg x 0.001 kg) (5,000 g x 1 g) (160 oz x 0.05 oz) | 10 x 10 in | 23 lb | $1,285.00 |
| **65184** | 20 lb x 0.005 lb (10 kg x 0.002 kg) (10,000 g x 2 g) (320 oz x 0.1 oz) | 10 x 10 in | 23 lb | $1,285.00 |
| **65185** | 30 lb x 0.01 lb (15 kg x 0.005 kg) (15,000 g x 5 g) (480 oz x 0.1 oz) | 10 x 10 in | 23 lb | $1,285.00 |
| **65186** | 30 lb x 0.01 lb (15 kg x 0.005 kg) (15,000 g x 5 g) 480 oz x 0.1 oz) | 12 x 12 in | 26 lb | $1,365.00 |
| **65187** | 50 lb x 0.01 lb (25 kg x 0.005 kg) (25,000 g x 5 g) (800 oz x 0.20 oz) | 12 x 12 in | 26 lb | $1,365.00 |
| **65188** | 100 lb x 0.02 lb (50 kg x 0.01 kg) (50,000 g x 10 g) (1,600 oz x 0.50 oz) | 12 x 12 in | 26 lb | $1,365.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult*** ** | 18 in column replacing standard 12 in column | +$50.00 list price add on |

** To convert inches to millimeters: Multiply inch measurement by 25.4*

**** Not recommended for use with scale bases smaller than 12 x 12 in*





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# CW-90

Over/Under Checkweigher



## Standard Features

- Membrane keypad consisting of ZERO, UNITS, PRINT, TARE, OVER, UNDER, ID, TARGET, 0-9, CLEAR, DECIMAL, ENTER, MENU, POWER
- 304 stainless steel, IP66 rated indicator
- PreVent™ breather vent
- Storage for up to 50 IDs
- Unit of Measure: kg, gm, lb, oz, lb/oz (lb/oz is not Legal for Trade)
- High-intensity LED display
- Battery backed time and date
- Two full duplex RS-232 serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or Fiber Optic
- Four configurable Digital I/O
- Reflash memory to upgrade firmware
- Auto print capability
- Accumulator
- Factory Calibrated

**Scale:**

- Aluminum, environmentally sealed load cell
- 304 stainless steel
- Meets HACCP requirements
- Five point overload protection

WeighVault

REVOLUTION SCALE SOFTWARE

## Approvals

## Specifications

**Power - AC:**
**Line voltages:**
115/230 VAC
**Frequency:**
50/60 Hz

**Power Consumption:**
1.5 A at 115 VAC (8 W)
0.75 A at 230 VAC (8 W)

**Measurement Rate:**
960,480, 240, 120, 60, 30, 15, 7.5 per second

**System Linearity:**
±0.01% full scale

**Digital I/O:**
Four channels on CPU board

**Circuit Protection:**
RFI, EMI, ESD protection

**Display:**
Large 0.8 in, 14 segment, six digit high-intensity red LED display

**Status Annunciators:**
Designators for %, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

**Operating Temperature:**
Legal: 14º F to 104º F (-10º C to 40º C)

**Rating/Material:**
IP66, stainless steel

**Display Resolution:**
100,000 graduations maximum

**Load Cell:**
Aluminum, environmentally sealed

**Warranty:**
Two-year limited warranty

**Approvals:**
**Indicator:**
NTEP CC 08-092, Class III/IIIL 10,000 d
Measurement Canada AM-5710, Class III 10,000 d
OIML R76/2006-GBI-10.02
TC11569
T10807
UL and CUL listed
CE marked
**Scale:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
NSF



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## Part Number/Price

| Part # | Capacity | Platform Dimensions | Column Height | Est. Weight | Price |
|---|---|---|---|---|---|
| **115 VAC** | | | | | |
| **105957**† | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) or (80 oz x 0.02 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,415.00 |
| **105958**† | 10 lb x 0.002 lb (5 kg x 0.001 kg) or (160 oz x 0.05 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,415.00 |
| **105959**† | 25 lb x 0.005 lb (10 kg x 0.002 kg) or (400 oz x 0.1 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,415.00 |
| **105960**† | 25 lb x 0.005 lb (10 kg x 0.002 kg) or (400 oz x 0.1 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,495.00 |
| **105961**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) or (800 oz x 0.2 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,495.00 |
| **105962**† | 100 lb x 0.02 lb (50 kg x 0.01 kg) or (1,600 oz x 0.5 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,495.00 |
| **230 VAC CE marked/OIML approved** | | | | | |
| **106123**†† | 3 kg x 0.001 kg | 254 x 254 x 108 mm | 305 mm | 13.2 kg | $1,415.00 |
| **106124**†† | 6 kg x 0.002 kg | 254 x 254 x 108 mm | 305 mm | 13.2 kg | $1,415.00 |
| **106125**†† | 15 kg x 0.005 kg | 254 x 254 x 108 mm | 305 mm | 13.2 kg | $1,415.00 |
| **106126**†† | 15 kg x 0.005 kg | 305 x 305 x 108 mm | 305 mm | 15 kg | $1,495.00 |
| **106127**†† | 30 kg x 0.01 kg | 305 x 305 x 108 mm | 305 mm | 15 kg | $1,495.00 |
| **106128**†† | 60 kg x 0.02 kg | 305 x 305 x 108 mm | 305 mm | 15 kg | $1,495.00 |
| **230 VAC** | | | | | |
| **118891**† | 2.5 kg x 0.0005 kg (5 lb x 0.001 lb) or (80 oz x 0.02 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,415.00 |
| **118892**† | 5 kg x 0.001 kg (10 lb x 0.002 lb) or (160 oz x 0.05 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,415.00 |
| **118893**† | 10 kg x 0.002 kg (25 lb x 0.005 lb) or (400 oz x 0.1 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,415.00 |
| **118895**† | 10 kg x 0.002 kg (25 lb x 0.005 lb) or (400 oz x 0.1 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,495.00 |
| **118896**† | 25 kg x 0.005 kg (50 lb x 0.01 lb) or (800 oz x 0.2 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,495.00 |
| **118897**† | 50 kg x 0.01 kg (100 lb x 0.02 lb) or (1,600 oz x 0.5 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,495.00 |

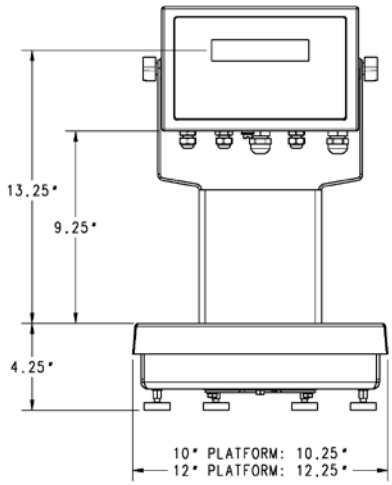
† *NEMA 5-15 plug*

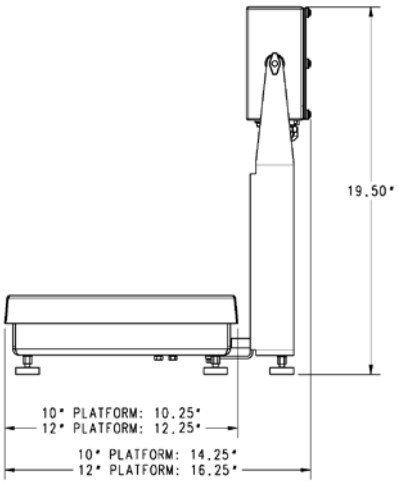
†† *CEE 7/7 plug*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **200578** | Ethernet TCP/IP | $400.00 |
| **108671** | Wireless LAN card Wi-Fi 802.11 A/B | $570.00 |
| **200577** | USB Port (PC connection only) cable included | $175.00 |
| **95357** | USB cable, Type A to mini-B, 1 m | $10.00 |
| **171968** | Firmware download cable | $35.00 |
| **96736** | Fiber optic board | $250.00 |
| **78026** | Fiber optic, duplex cable 100 ft | $140.00 |
| **80892** | Fiber optic cutter | $9.00 |
| **117358** | WeighVault™ (requires part number 77142 or 108671) | $250.00 |

** To convert inches to millimeters: Multiply inch measurement by 25.4*








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# CW-90X

Over/Under Washdown Checkweigher




WeighVault

REVOLUTION SCALE SOFTWARE

## Standard Features

- Piezo keypad consisting of ZERO, UNITS, PRINT, TARE, OVER, UNDER, ID, TARGET, ENTER, MENU, POWER
- 304 stainless steel, IP69K rated indicator
- PreVent™ breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz (lb/oz is not Legal for Trade)
- High-intensity LED display
- Battery backed time and date
- Two full-duplex RS-232 serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber-optic
- Four configurable Digital I/O
- Reflash memory to upgrade firmware
- Auto print capability
- Accumulator
- Factory Calibrated

**Scale Base:**

- IP69K, stainless steel, hermetically sealed load cell
- 304 stainless steel
- Meets HACCP requirements
- Five point overload protection

## Approvals

NTEP

c UL us LISTED

OIML

EU LEGAL FOR TRADE CERTIFIED

CE

NSF

## Specifications

**Power-AC:**
**Line voltages:**
115/230 VAC
**Frequency:**
50/60 Hz
Fused at 2.5A

**Power Consumption:**
1.5 A at 115 VAC (8 W),
0.75 A at 230 VAC (8 W)

**Excitation Voltage:**
+5VDC 8 x 350 Ω or 16 x 700 Ω load cells

**Analog Signal Input Range:**
-0.5 mV/V + 4.5 mV/V

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum, 1.5 µV/graduation recommended

**Measurement Rate:**
960, 480, 240, 120, 60, 30, 15, 7.5 per second

**System Linearity:**
±0.01% full scale

**Digital I/O:**
Four channels on CPU board

**Circuit Protection:**
RFI, EMI, EFT, ESD and surge protection

**Display:**
Large 0.8 in, 14-segment, six-digit high-intensity red LED display

**Status Annunciators:**
Designators for %, kg, gm, lb, oz, center of zero, Gross/Brutto, N, T, PT, neg, motion

**Operating Temperature:**
Legal: 14º F to 104º F (-10º C to 40º C)

**Rating/Material:**
IP69K, stainless steel

**Display Resolution:**
100,000 graduations maximum

**Load Cell:**
IP69K, stainless steel, hermetically sealed

**Warranty:**
Three-year limited warranty

**Approvals:**
**Indicator:**
NTEP CC 08-092, Class III/IIIL 10,000 d
Measurement Canada AM-5710, Class III 10,000 d
OIML R76/2006-GBI-10.02
TC11569
T10807
UL and CUL listed
CE marked
**Scale:**
NTEP CC 95-072, Class III 5,000 d
Measurement Canada AM-5082, Class III 5,000 d
NSF



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## Part Number/Price

| Part # | Capacity | Platform Dimensions | Column Height | Est. Weight | Price |
|---|---|---|---|---|---|
| **115 VAC** | | | | | |
| **105963**† | 5 lb x 0.001 lb (2.5 kg x 0.0005 kg) or (80 oz x 0.02 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,915.00 |
| **105965**† | 10 lb x 0.002 lb (5 kg x 0.001 kg) or (160 oz x 0.05 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,915.00 |
| **105966**† | 25 lb x 0.005 lb (10 kg x 0.002 kg) or (400 oz x 0.1 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,915.00 |
| **105967**† | 25 lb x 0.005 lb (10 kg x 0.002 kg) or (400 oz x 0.1 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,995.00 |
| **105968**† | 50 lb x 0.01 lb (25 kg x 0.005 kg) or (800 oz x 0.2 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,995.00 |
| **105969**† | 100 lb x 0.02 lb (50 kg x 0.01 kg) or (1,600 oz x 0.5 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,995.00 |
| **230 VAC CE marked/OIML approved** | | | | | |
| **106129**†† | 3 kg x 0.001 kg | 254 x 254 x 108 mm | 305 mm | 13.2 kg | $1,915.00 |
| **106130**†† | 6 kg x 0.002 kg | 254 x 254 x 108 mm | 305 mm | 13.2 kg | $1,915.00 |
| **106131**†† | 15 kg x 0.005 kg | 254 x 254 x 108 mm | 305 mm | 13.2 kg | $1,915.00 |
| **106132**†† | 15 kg x 0.005 kg | 305 x 305 x 108 mm | 305 mm | 15 kg | $1,995.00 |
| **106133**†† | 30 kg x 0.01 kg | 305 x 305 x 108 mm | 305 mm | 15 kg | $1,995.00 |
| **106134**†† | 60 kg x 0.02 kg | 305 x 305 x 108 mm | 305 mm | 15 kg | $1,995.00 |
| **230 VAC** | | | | | |
| **118899**† | 2.5 kg x 0.0005 kg (5 lb x 0.001 lb) or (80 oz x 0.02 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,915.00 |
| **118900**† | 5 kg x 0.001 kg (10 lb x 0.002 lb) or (160 oz x 0.05 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,915.00 |
| **118901**† | 10 kg x 0.002 kg (25 lb x 0.005 lb) or (400 oz x 0.1 oz) | 10 x 10 x 4.25 in | 12 in | 29 lb | $1,915.00 |
| **118902**† | 10 kg x 0.002 kg (25 lb x 0.005 lb) or (400 oz x 0.1 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,995.00 |
| **118903**† | 25 kg x 0.005 kg (50 lb x 0.01 lb) or (800 oz x 0.2 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,995.00 |
| **118904**† | 50 kg x 0.01 kg (100 lb x 0.02 lb) or (1,600 oz x 0.5 oz) | 12 x 12 x 4.25 in | 12 in | 33 lb | $1,995.00 |

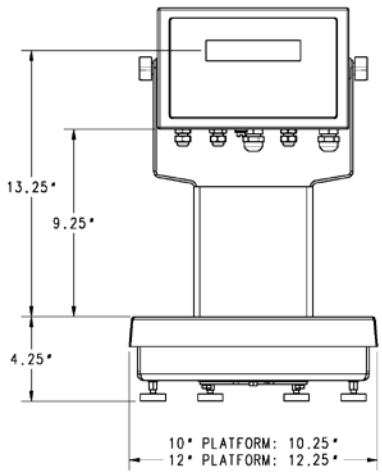
† *NEMA 5-15 plug*

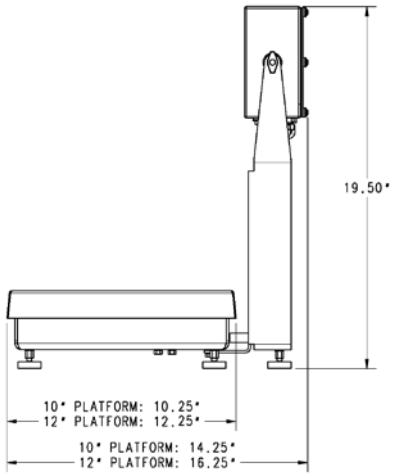
†† *CEE 7/7 plug*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **200578** | Ethernet TCP/IP | $400.00 |
| **108671** | Wireless LAN card Wi-Fi 802.11 A/B | $570.00 |
| **200577** | USB Port (PC connection only) cable included | $175.00 |
| **95357** | USB cable, Type A to mini-B, 1 m | $10.00 |
| **171968** | Firmware download cable | $35.00 |
| **96736** | Fiber optic board | $250.00 |
| **78026** | Fiber optic, duplex cable 100 ft | $140.00 |
| **80892** | Fiber optic cutter | $9.00 |
| **117358** | WeighVault™ (requires part number 77142 or 108671) | $250.00 |

** To convert inches to millimeters: Multiply inch measurement by 25.4*






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# DIGI DSX-1000

High Precision Checkweigher




## Specifications

**Power-AC:**
100 V~240 V

**Power Consumption:**
22 W

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Operating Humidity:**
15%~85% relative humidity

**Internal Resolution:**
300,000 counts

**Warranty:**
Two-year limited warranty

**Approvals:**
UL

## Standard Features

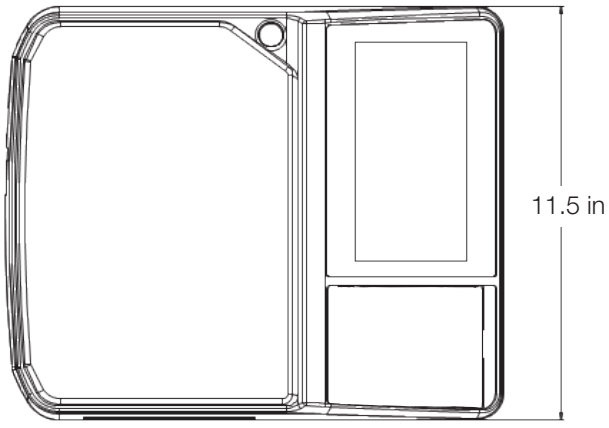
- Full color touchscreen display
- Six-digit display
- Splash-proof housing
- RS-232C interface

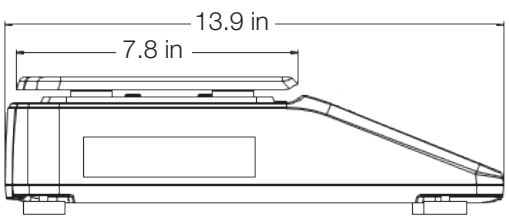
Approvals

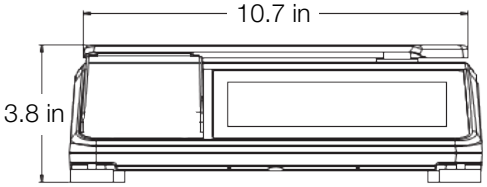
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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **178183** | 600 g x 0.05 g | $650.00 |
| **178185** | 6 kg x 0.5 g | $650.00 |
| **178187** | 15 kg x 2 g | $650.00 |






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# Concrete Batch Controllers

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**CB-3 CONCRETE BATCH CONTROLLER**..**344**
*Multi-Scale Automated Batching System*



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# CB-3 Concrete Batch Controller

Multi-Scale Automated Batching System



*(Note: Factory field installation required, minimum of three days on-site)*

## Standard Features

- One aggregate and one cement scale, water scale is standard for P/N 177747
- Manual override controls
- Customized batch ticket printing
- Web server
- 128 GB data storage
- Material usage by day/week/month/year and inventory on-hand with reporting
- Automatic aeration control for cement silos and weigh hoppers
- Multiple freefall values per material
- Split batching for loads larger than plant capacity with pre-weighing next batch
- Automatic dust collection outputs
- Order based batching
- Units: US standard or metric (SI) operation
- Aggregate conveyor
- Loss-in-weight aggregate dispensing
- Three dual or six single speed aggregates
- Two dual or four single speed cements
- Weighed water with water reservoir (P/N 177747)
- Up to eight auxiliary manual controls
- Mixer controls for central mix block or precast plants
- Ethernet TCP/IP
- Up to six admixtures
- Multi-user interface
- Dual moisture probe interface supports 4-20 mA

## Options:

- Monitor
- Keyboard
- USB hub four ports
- USB WiFi dongle
- Mouse
- Additional four admixture control system
- Portable batch plant system
- Control panel for remote batching

## Specifications Industrial PC

**Model:**
B&R APC2100

**Processor Type:**
Intel Atom E3845
Quad Core

**Data Storage Type:**
Industrial CFast Card

**Data Storage Capacity:**
128 GB

**Interfaces:**
Two USB
Two Ethernet

**Monitor Output:**
One SDL/DVI

**Operating System:**
Linux Ubuntu 16.04

**Voltage:**
24 VDC

## Specifications 920i

**Line Voltages:**
115 or 230 VAC

**Frequency**
50 or 60 Hz

**Power Consumption:**
500 mA, maximum at 115 VAC (26 W) / 240 mA at 230 VAC (26 W)

**Full Scale Input Signal:**
Up to 40 mV

**Excitation Voltage:**
10 ±0.5 VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

**Sense Amplifier:**
Differential amplifier with 4 and 6 wire sensing

**Analog Signal Input Range:**
-10 mV to +40 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation typical at 120 Hz
4.0 µV/graduation typical at 960 Hz

**A/D Sample Rate:**
60 Hz

**Calibration Method:**
Software, contents stored in flash memory

**Display:**
(W x H) 4.6 in x 3.4 in (116 mm x 86 mm), 320 x 240 pixel VGA liquid crystal display (LCD) module with adjustable contrast, 75 Hz scan rate 26,000 cd/m2 brightness

**Keyboard:**
27-key membrane panel

**Input Overload:**
Load cell signal lines ±10 V continuous, ESD protected

**RFI/EMI Protection:**
Signal, excitation and sense lines protected

**Microcomputer:**
Motorola ColdFire® MCF5307 main processor at 90 MHz

**Digital Filter:**
Software selectable: 1–256, enhanced RATTLETRAP® hybrid digital filtering

**Warranty:**
Two-year limited warranty



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# CB-3 Concrete Batch Controller

Multi-Scale Automated Batching System with PC Program

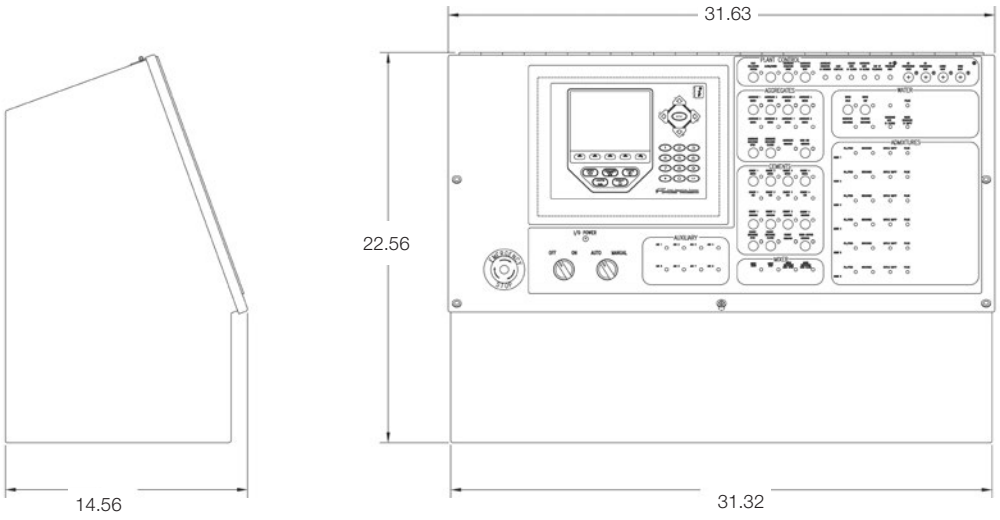
## Part Number/Price

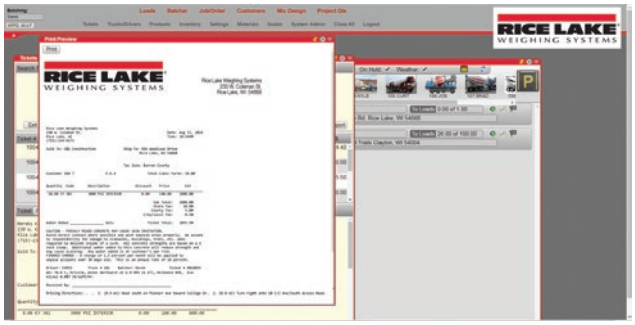
| Part# | Description | Est. Weight | Price |
|---|---|---|---|
| **177746 *** | CB-3 concrete batching controller, metered water, PC included | 180 lb | $22,500.00 |
| **177747 *** | CB-3 concrete batching controller, weighed water, PC included | 180 lb | $22,995.00 |
| **FLD-INSTALL** | Factory field installation required (minimum 3 days on site) | | $1,395.00 per day |
| **FLD-INSTALLSA** | Factory field installation, Saturday | | $2,095.00 |
| **FLD-INSTALLSU** | Factory field installation, Sunday | | $2,790.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **175877** | Upgrade kit CB-2 to CB-3, PC included | $9,445.00 |
| **179209** | Accessory kit (includes monitor, keyboard, USB hub and mouse) | $302.00 |
| **179210** | Monitor, Acer | $240.00 |
| **179211** | Keyboard, Microsoft | $45.00 |
| **179212** | Mouse, Microsoft | $42.00 |
| **185667** | USB Hub | $13.95 |
| **186277** | Wireless USB adapter WI-FI | $60.00 |
| **196700** | 4 Additional Admix controller | Consult |

** Completed questionnaire required prior to ordering this system. Questionnaire available at www.ricelake.com/resources/product-questionnaires*

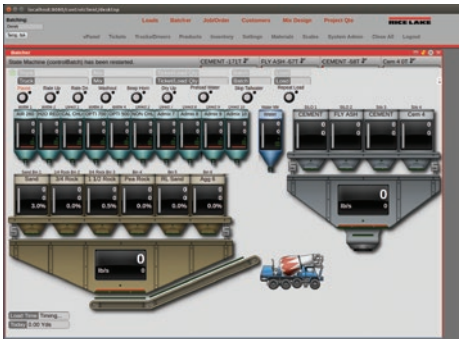



*CB-3 Ticket Output*



*CB-3 Truck Monitoring Screen*



*CB-3 Batcher Screen*

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# Counting Scales

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*Configurable Counting Indicator*

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# Counterpart®

Configurable Counting Indicator



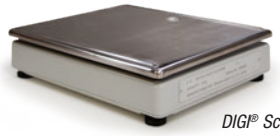

## Standard Features

- AC operated (battery operation is optional)
- LCD graphic transmissive display for indoor viewing
- Lb/kg/oz/g weight display conversion
- Single- or dual-channel models with serial scale input
- Mix and match platforms with console
- Four setpoint outputs for counting
- Two RS-232 ports for connecting peripherals
- Ethernet TCP/IP
- Scanner input (RS-232)
- PC software utility (Revolution®) for setup
- 150 item memory

## Approvals

## Options:

- Battery
- USB for USB keyboard
- WeighVault™ for Counterpart

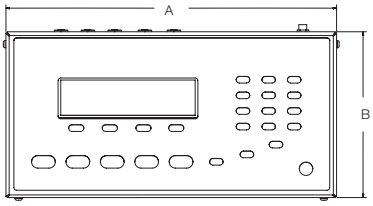


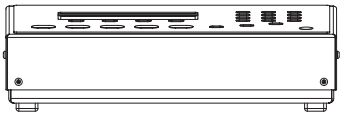
*DIGI® Scale Base*

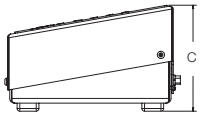


*Shown with BenchMark® Scale Base and Bracket*

| Dimensions | | | |
|---|---|---|---|
| A | 12.3 in (312.4 mm) | C | 3.94 in (100 mm) |
| B | 6.17 in (156.7 mm) | | |






## Specifications

**Power Source:**
Input: 100-240 VAC, 47-63 Hz, 5 watts, U.S. power cord
Output: 9-12 V, 1.5 A max

**Excitation Voltage:**
5 VDC

**Analog Signal Input Range:**
0-4.5 mV/V

**Analog Specifications:**
Grad minimum: .3 µV/grad
Input sensitivity: 1.5 µV/grad recommended
Zero adjustment range: 0-100% or per region settings
A/D conversion rate: 7.5, 15, 30 samples per second
Load cells per scale: 8 x 350 Ω; 16 x 700 Ω
Scale channels: 1 or 2
Linearity: ±0.017 full scale

**Circuit Protection:**
RFI, EMI, ESD protection

**Digital I/O:**
Four

**Display:**
Viewing area: 240 x 64 pixels, transmissive VGA liquid crystal display (LCD) with adjustable contrast

**Keypad:**
24 buttons, full keypad (alpha numeric)

**Resolution:**
Weight display resolution: up to 100,000 graduations
Counting resolution: 1/1,000,000

**Communications and Setpoint:**
Two RS-232 ports support up to 115,200 bps
20 mA
Ethernet port
Setpoint output

**Status Annunciators:**
PCS, motion, low battery, insuff, recomp, scale number, gross, net, zero

**Units of Measure:**
Pounds, kilograms, grams, ounces

**Prints:**
Standard EPL label format; format is changeable to work with virtually any printer

**Optional Battery:**
Type: Lithium-ion
Charge time: 6 to 8 hours
Charge cycles: 400-1,200
Estimated runtime: 24-32 hours with one 350 Ω load cell base

**Operating Temperature:**
32° F to 104° F (0° C to 40° C)

**Operating Humidity:**
85%

**Physical Dimensions:**
Indicator only (L x W x H): 12.25 x 6.25 x 4.0 in (311.15 x 158.75 x 101.6 mm)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 12-110
CE
UL listed
Measurement Canada



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## Part Number/Price

| Part # | Model # | Capacity | Platter Dimensions | Est. Weight | Price |
|---|---|---|---|---|---|
| **118788** | CP single-channel indicator | Console only | n/a | 10 lb (4.5 kg) | $995.00 |
| **120770** | CP dual-channel indicator | Console only | n/a | 10 lb (4.5 kg) | $1,025.00 |
| **132429** | CP single-channel, EU power cord | Console only | n/a | 10 lb (4.5 kg) | $995.00 |
| **132431** | CP dual-channel, EU power cord | Console only | n/a | 10 lb (4.5 kg) | $1,025.00 |
| **Single Channel with DIGI® S-YC base system and bracket** | | | | | |
| **155089** | CP-1 | 1 lb x 0.0001 lb (500 g x 0.05 g) | 7.9 x 5.6 in (200 x 142 mm) | 35 lb (15.9 kg) | $1,375.00 |
| **155090** | CP-2 | 2 lb x 0.0002 lb (1 kg x 0.0001 kg) | 9.6 x 6.9 in (244 x 175 mm) | 35 lb (15.9 kg) | $1,375.00 |
| **155092** | CP-5 | 5 lb x 0.0005 lb (2.5 kg x 0.0002 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,325.00 |
| **155094** | CP-10 | 10 lb x 0.001 lb (5 kg x 0.0005 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,325.00 |
| **155097** | CP-25 | 25 lb x 0.002 lb (10 kg x 0.001 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,325.00 |
| **155101** | CP-50 | 50 lb x 0.005 lb (25 kg x 0.002 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,325.00 |
| **Dual Channel with DIGI S-YC base system and bracket (second channel available for use with other bases)** | | | | | |
| **155115** | CP-1 | 1 lb x 0.0001 lb (500 g x 0.05 g) | 7.9 x 5.6 in (200 x 142 mm) | 35 lb (15.9 kg) | $1,425.00 |
| **155116** | CP-2 | 2 lb x 0.0002 lb (1 kg x 0.0001 kg) | 9.6 x 6.9 in (244 x 175 mm) | 35 lb (15.9 kg) | $1,425.00 |
| **155117** | CP-5 | 5 lb x 0.0005 lb (2.5 kg x 0.0002 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,395.00 |
| **155118** | CP-10 | 10 lb x 0.001 lb (5 kg x 0.0005 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,395.00 |
| **155119** | CP-25 | 25 lb x 0.002 lb (10 kg x 0.001 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,395.00 |
| **155120** | CP-50 | 50 lb x 0.005 lb (25 kg x 0.002 kg) | 13.4 x 11 in (341 x 284 mm) | 35 lb (15.9 kg) | $1,395.00 |
| **Dual Channel with BenchMark™ base system and bracket (second channel available for use with other bases)** | | | | | |
| **125113** | CP-50BM | 50 lb x 0.01 lb (20 kg x 0.002 kg) | 12 x 18 in (304.8 x 457.2 mm) | 45 lb (20.4 kg) | $1,450.00 |
| **125116** | CP-100BM | 100 lb x 0.02 lb (50 kg x 0.005 kg) | 12 x 18 in (304.8 x 457.2 mm) | 45 lb (20.4 kg) | $1,450.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **124692** | Rechargeable lithium-ion battery option | $295.00 |
| **53828** | 14-Pin Y-cable, connects 2 remote DIGI bases | $85.00 |
| **32375** | Connector, 14-Pin Amphenol load cell (can be soldered to home run cable) | $20.00 |
| **125062** | Ethernet quick access coverplate for Counterpart | $20.00 |
| **130537** | USB for Counterpart, keyboard only | $150.00 |
| **179211** | QWERTY keyboard, USB interface (requires 130537 USB interface option) | $45.00 |
| **125079** | Quick access 9-Pin cover plate | $10.00 |
| **120767** | Quick access 14-Pin Amphenol cover plate | $15.00 |
| **125495** | Wireless LAN card Wi-Fi 802.11 A/B, optional kit | $570.00 |
| **125546** | WeighVault™ for Counterpart | $250.00 |
| **77925** | Revolution® PC software utility for setup | $35.00 |
| **118677** | Operators manual (Part #129606 Spanish operator's manual) | $25.00 |
| **121459** | Front mount bracket for Benchmark™ scales, S-XL bases | $50.00 |
| **154700** | Front mount bracket for S-YC scales | $50.00 |
| **121474** | Firmware download cable | $35.00 |
| **121501** | Stand, angled free standing for table top | $80.00 |
| **128063** | Power supply, 12 V (power cord sold separately) | $55.00 |
| **15438** | Power cord | $17.75 |
| **Printers/Cables:** | | |
| **167515** | DT2x printer, 2 in direct thermal, 203 dpi, real time clock 110/240 VAC | $345.00 |
| **65617** | Direct thermal label, (W x L): 2.25 x 4.5 in, 1 in core, 5 in OD perfed | $14.60 |
| **41276** | Cable DB9M to blunt end RS-232 cable for DT2 | $65.00 |
| **78860** | Ethernet cross cable for direct connection to WeighVault™ | $35.00 |
| **Scanner:** | | |
| **121495** | Kit, QD2131 RS-232 scanner, cable stand and DB9 quick connect cable (supplies power to scanner, reduces battery life) | $335.00 |





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# NEW
# DIGI® DC-400 Series
Dual-load Cell Counting Scales




## Standard Features

- Liquid crystal display (LCD) with white backlight
- Dual-load cell scale, functions like dual-platform scale
- 10 preset keys for product ID
- Internal resolution of 1/1,000,000
- Buzzer - low, ok, high
- Multi-internal

## Part Number/Price

| Part # | Description | Capacity | Interval | Est. Weight | Price |
|---|---|---|---|---|---|
| **193811** | DC-400 | 500 g/5 kg | 0.1 g (0-200 g)<br>0.2 g (200-500 g)<br>0.5 g (500-2,000 g)<br>1 g (2,000 g-5,000 g) | 29.1 lb (13.2 kg) | $1,850.00 |
| **193812** | DC-400 | 2.5 kg/25 kg | 0.5 g (0-1 kg)<br>1 g (1 kg-2.5 kg)<br>2 g (2.5 kg-10 kg)<br>5g (10 kg-25 kg) | 29.1 lb (13.2 kg) | $1,850.00 |

## Specifications

**Internal Resolution:**
1/1,000,000

**Display:**
Liquid crystal display (LCD) with backlight
Weight: five-digit
Tare weight: five-digit
Quantity: eight-digit
Second Line: 25 characters

**Power Source:**
120 VAC power supply (U.S. power cord)

**Number of Scale Channels:**
Two local scale

**Memory Items:**
25

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Dimensions:**
Overall (W x L x H): 361 x 461 x 167 mm (13 x 13 x 5 in)

**Estimated Shipping Weight:**
TBD

**Platter Size:**
215 (W) x 162 (D) mm
290 (W) x 215 (D) mm

**Warranty:**
Two-year limited warranty



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## Specifications

**Internal Resolution:**
1/500,000

**Weight Display Resolution:**
1/7,500 (1/6,000)

**Display:**
Liquid crystal display (LCD) with backlight
Weight: five-digit
Unit weight: five-digit
Quantity: six-digit

**Power Source:**
120 VAC power supply (U.S. power cord)

**Number of Scale Channels:**
One local scale

**Memory Items:**
25

**Optional Battery:**
Charge time: 12-14 hours
Estimated runtime: 300 hours (no backlight)

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Dimensions:**
Overall (W x L x H): 335.7 x 349.7 x 123.5 mm (13 x 13 x 5 in)

**Estimated Shipping Weight:**
11 lb (5 kg)

**Platter Size:**
300 x 225 mm (12 x 8.9 in)

**Warranty:**
Two-year limited warranty



## Standard Features

- Liquid crystal display (LCD) with yellow backlight
- 10 preset keys for product ID
- 25 item memory
- Internal resolution of 1/500,000
- Buzzer - low, ok, high

## Part Number/Price

| Part # | Description | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **108248** | DC-782 | 6 lb x 0.001 lb | 11 lb (5 kg) | $540.00 |
| **108249** | DC-782 | 15 lb x 0.002 lb | 11 lb (5 kg) | $540.00 |
| **108250** | DC-782 | 30 lb x 0.005 lb | 11 lb (5 kg) | $540.00 |
| **108251** | DC-782 | 60 lb x 0.01 lb | 11 lb (5 kg) | $540.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **108516** | Rechargeable battery | $45.00 |
| **73382** | AC adapter 110 VAC | $60.00 |
| **108518** | AC adapter 110 - 230 VAC (prior to May 2011 production units) | $45.00 |
| **109429** | Manual | $25.00 |
| **73296** | Carrying case | $200.00 |





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# DIGI® DC-788 Series

Industrial Counting Scales



## Standard Features

- Internal resolution of 1/1,000,000
- Auto-recomputing function
- Negative sampling and counting (count out of a full container)
- Bright green LED
- Simultaneous weight display, unit weight, tare and quantity
- Net/gross weight display
- Lb/kg weight display conversion
- Full-duplex RS-232 output to PC or printer
- AC or rechargeable battery operation (battery optional)
- Choice of unit weight per thousand or average piece weight
- Remote scale capability
- 100 product look up registers
- NTEP for non-counting applications
- Remote scale interface

## Approvals

## Specifications

**Internal Resolution:**
1/1,000,000

**Weight Display Resolution:**
1/5,000 NTEP, other selections capacity dependent

**Display:**
LED
Weight: five-digit
Unit weight: five-digit
Quantity: seven-digit
Tare: five-digit

**Power Source Consumption:**
AC: 115, 60 Hz
Optional battery: 6 V, 5.0 Ah

**Printer Compatibility:**
Zebra® GK-420D
Zebra GK-420T
Epson® TM-U220 tape
STAR® SP512 tape
Epson TM-U295 ticket

**Zero Adjust Range:**
±127% full scale

**Input Sensitivity:**
0.4 to 4 mV/V

**Load Cell Excitation:**
5 VDC

**Number of Scale Channels:**
One remote scale, one 350 Ω load cell

**Memory Items:**
100 items

**Load Cell Input Connector:**
Amphenol 14-Pin

**Computer Interface:**
RS-232 DB-9M connection

**Battery Operation:**
24 hours of continuous usage

**Charge Time:**
8-10 hours

**Operating Temperature:**
14º F to 104º F (-10º C to 40º C)

**Dimensions:**
Overall (W x D x H): 14 x 13.75 x 4.5 in (354 x 349 x 115 mm)

**Estimated Shipping Weight:**
15 lb (7 kg)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 07-015 (10 lb - 100 lb) Class III for weigh mode only 10 lb to 100 lb-scales only



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## Part Number/Price

| Part # | Description | Weighing Resolution | Platter | Est. Weight | Price |
|---|---|---|---|---|---|
| **88928 *** | DC-788, 2 lb (1 kg) | 0.0002 lb (0.0001 kg) | 7 x 10 in (178 x 254 mm) | 15 lb (7 kg) | $850.00 |
| **88929** | DC-788, 10 lb (5 kg) | 0.002 lb (0.001 kg) | 10 x 13 in (254 x 330 mm) | 15 lb (7 kg) | $850.00 |
| **88930** | DC-788, 25 lb (10 kg) | 0.005 lb (0.002 kg) | 10 x 13 in (254 x 330 mm) | 15 lb (7 kg) | $850.00 |
| **88931** | DC-788, 50 lb (25 kg) | 0.01 lb (0.005 kg) | 10 x 13 in (254 x 330 mm) | 15 lb (7 kg) | $850.00 |
| **88932** | DC-788, 100 lb (50 kg) | 0.02 lb (0.01 kg) | 10 x 13 in (254 x 330 mm) | 15 lb (7 kg) | $1,060.00 |
| **Part #** | **Description** | **Platter Dimensions** | **Overall Dimensions** | **Est. Weight** | **Price** |
| **Optional Digi S-YC Remote Scale Bases** | | | | | |
| **154835** | 500 g (1 lb) | 7.9 x 5.6 in (201 x 143 mm) | 13.4 x 11.1 x 3.5 in (341 x 284 x 90 mm) | 7.7 lb (3.5 kg) | $750.00 |
| **154836** | 1 kg (2 lb) | 9.6 x 6.9 in (244 x 177 mm) | 13.4 x 11.1 x 3.5 in (341 x 284 x 90 mm) | 7.7 lb (3.5 kg) | $750.00 |
| **154838** | 2.5 kg (5 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |
| **154839** | 5 kg (10 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |
| **154840** | 10 kg (20 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |
| **154841** | 25 kg (50 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |

**Non NTEP*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **88933** | Rechargeable battery–lead acid type | $78.00 |
| **73386** | Anti-static sample tray | $25.00 |
| **32375** | 14-Pin load cell connector, Amphenol (remote base, non-DIGI) | $20.00 |
| **35319** | 14-Pin load cell connector with 20 ft cable | $70.00 |
| **91685** | Additional operating and service manual | $25.00 |
| **70056** | Nine-pin printer cable to DT4, G500 | $35.00 |
| **72440** | Nine-pin printer cable to Epson TM-U220/TM-U295 SP512 | $65.00 |
| **66535** | Nine-pin cable to PC, null modem cable, to be used with Zebra printers | $45.00 |
| **91214** | AC adapter 110-230 VAC, U.S. plug | $45.00 |
| **Printers** | | |
| **192720** | Zebra GK-420D, direct thermal printer | $595.00 |
| **192722** | Zebra GK-420T, thermal transfer printer | $695.00 |
| **65617** | Label, 2.25 in x 4.5 in, direct thermal | $14.60 |

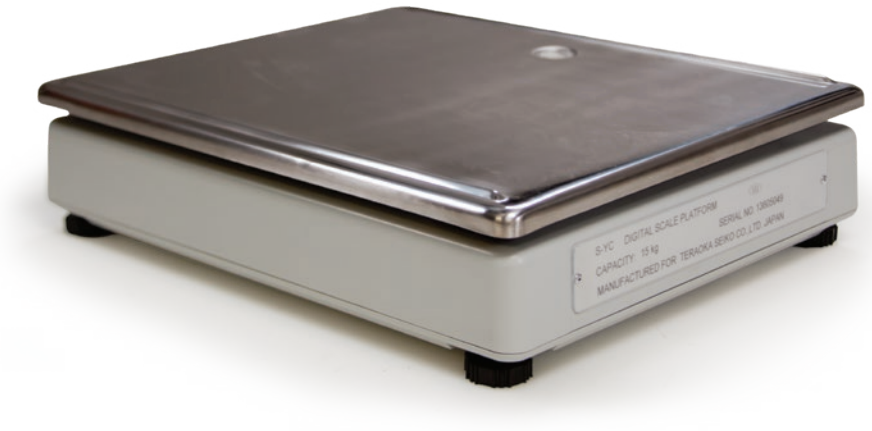




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# DIGI® S-YC Series

Remote Scale Base Platforms



## Specifications

**Output Impedance:**
350 ±5 ohms

**Insulation Resistance:**
>500 Megohms

**Rated Output:**
1.0016 mV/V

**Color Code:**
Green.....+ Output
Yellow..... – Output
Black..... Shield
White..... – Input
Red.....+ Input

**Load Cell Type:**
K-Type DIGI cell

**Load Cell Cable Length:**
118 in (3 m)

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty

## Standard Features

- Stainless steel platter
- ABS injection-molded plastic base
- Single-point strain gauge load cell
- Adjustable legs
- Leveling bubble
- 14-Pin connector on three meter cable

## Part Number/Price

| Part # | Description | Platter Dimensions | Overall Dimensions | Est. Weight | Price |
|---|---|---|---|---|---|
| **154835** | 500 g (1 lb) | 7.9 x 5.6 in (201 x 143 mm) | 13.4 x 11.1 x 3.5 in (341 x 284 x 90 mm) | 7.7 lb (3.5 kg) | $750.00 |
| **154836** | 1 kg (2 lb) | 9.6 x 6.9 in (244 x 177 mm) | 13.4 x 11.1 x 3.5 in (341 x 284 x 90 mm) | 7.7 lb (3.5 kg) | $750.00 |
| **154838** | 2.5 kg (5 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |
| **154839** | 5 kg (10 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |
| **154840** | 10 kg (20 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |
| **154841** | 25 kg (50 lb) | 13.4 x 11.1 in (341 x 284 mm) | 13.4 x 11.1 x 4.75 in (341 x 284 x 120 mm) | 11 lb (5 kg) | $680.00 |



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## Specifications

**Internal Resolution:**
Si Series: 1/5,000,000
FC-i Series: 1/1,000,000

**Display:**
Vacuum fluorescent display (VFD)
Seven segment

**Power Source (included):**
110 VAC 50/60 Hz AC adapter
230 VAC 50/60 Hz AC adapter

**Minimum Sample Unit Weight:**
500 si - 0.0001 g, 5000 si - 0.001 g
500 si - 0.0005 g, 1000 i - 0.001 g
2000 i - 0.002 g, 5000 i - 0.005 g
10 Ki - 0.01 g, 20 Ki - 0.02 g
50 Ki - 0.05 g

**Memory Items:**
500 ID - six-digit ID, unit weight, tare weight, comparator limits, accumulator and 12-digit ID name

**Weight Sensor:**
Si - Super hybrid sensor (SHS)
FC-i - Strain gauge load cell

**Operating Temperature:**
Si: 41° F to 104° F (5° C to 40° C)
FC-i: 14° F to 104° F (-10° C to +40° C)

**Dimensions:**
Overall (L x W x H): 13.0 x 18.2 x 4.6 in (330 x 462 x 117 mm)

**Warranty:**
Two-year limited warranty



## Standard Features

- 500 ID memory storage
- LED keypad prompting for intuitive operator use
- Automatic Counting Accuracy Improvement (ACAI)
- Display function - Hi/OK/Lo
- Rugged aluminum die-cast frame with splash-proof display and keyboard

## Options:

- Remote scale

## Part Number/Price

| Part # | Model # | Description | Resolution | Pan Size | Price |
|---|---|---|---|---|---|
| **108351** | FC-500Si | 1 lb x .00005 lb (500 g x .02 g) | 0.0001 g | 5 x 5 in (127 x 127 mm) | $1,750.00 |
| **108352** | FC-5000Si | 10 lb x .0005 lb (5 kg x .2 g) | 0.001 g | 6.5 x 6.5 in (165 x 165 mm) | $1,750.00 |
| **108353** | FC-1000i | 2 lb x 0.0002 lb (1 kg x .1 g) | 0.001 g | 8 x 6 in (203 x 152 mm) | $1,285.00 |
| **108354** | FC-2000i | 5 lb x 0.0005 lb (2 kg x .2 g) | 0.002 g | 11.8 x 11 in (300 x 279 mm) | $1,285.00 |
| **108355** | FC-5000i | 10 lb x .001 lb (5 kg x .5 g) | 0.005 g | 11.8 x 11 in (300 x 279 mm) | $1,285.00 |
| **108356** | FC-10Ki | 20 lb x .002 lb (10 kg x 1 g) | 0.01 g | 11.8 x 11 in (300 x 279 mm) | $1,285.00 |
| **108357** | FC-20Ki | 50 lb x .005 lb (20 kg x 2 g) | 0.02 g | 11.8 x 11 in (300 x 279 mm) | $1,285.00 |
| **108358** | FC-50Ki | 100 lb x .01 lb (50 kg x 5 g) | 0.05 g | 11.8 x 11 in (300 x 279 mm) | $1,285.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **108360** | FC-05i | Remote scale connection | $145.00 |
| **97613** | TB:662 | AC adapter 120 V - standard with unit | $43.00 |
| **97631** | TB:164 | AC adapter 240 V | $52.00 |




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# A&D® HC-i Series



## Specifications

**Internal Resolution:**
HC-3 Ki, 6 Ki, 30 Ki: 1/600,000
HC-15 Ki: 1/750,000

**Display:**
Seven segment liquid crystal display (LCD)
Character height: pcs 18.6 mm
Unit weight: 11.4 mm

**Power Source (included):**
AC adapter or SLA battery option
Operating time approximately 80 hours without interface

**Memory Items:**
99 weight registers

**Weight Sensor:**
Load cell

**Operating Temperature:**
14º F to 104º F (-10º C to 40º C)

**Dimensions:**
Overall (L x W x H): 12.4 x 13 x 5 in
(315 x 331 x 126 mm)

**Warranty:**
Two-year limited warranty

## Standard Features

- Sealed removable display unit
- Automatic Counting Accuracy Improvement (ACAI)
- Audible Weighing Assist beeping function (AWA)
- Display function - Hi/OK/Lo
- Accumulation function
- Full-digital calibration function
- Auto power-off function

## Options:

- Rechargeable battery
- RS-232C

## Part Number/Price

| Part # | Model # | Description | Pan Size | Price |
|---|---|---|---|---|
| **112837** | HC-3 Ki | 6 lb x 0.001 lb (3 x 0.0005 kg) | 11.8 x 8.3 in (300 x 211 mm) | $700.00 |
| **112838** | HC-6 Ki | 15 lb x 0.002 lb (6 x 0.001 kg) | 11.8 x 8.3 in (300 x 211 mm) | $700.00 |
| **112839** | HC15 Ki | 30 lb x 0.005 lb (15 x 0.002 kg) | 11.8 x 8.3 in (300 x 211 mm) | $700.00 |
| **112840** | HC-30 Ki | 60 lb x 0.01 lb (30 x 0.005 kg) | 11.8 x 8.3 in (300 x 211 mm) | $700.00 |

## Options/Accessories

| Part # | Model # | Description | Price |
|---|---|---|---|
| **112841** | HC-03 i | RS-232C for HC-i | $77.00 |
| **112842** | HC-06 i | Rechargeable battery pack | $43.00 |
| **97766** | TB:662 | AC adapter, 120 V, standard with unit | $43.00 |



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## Specifications

**Internal Resolution:**
1/500,000

**Display:**
Seven-segment 1/30,000, six-digit

**Power Source (included):**
100-240 VAC, 50-60 Hz internal universal power supply

**Battery:**
Lead acid, 210 hours, 12 hours recharge

**Number or Scale Channels:**
Optional second channel

**Memory Items:**
(30)12-digit part number, average piece weights, check counting or checkweighing parameters, tare weights, accumulated weights or counts

**Operating Temperature:**
14º F to 104º F (-10º C to 40º C)

**Dimensions:**
Overall (L x W x H): 12.2 x 12.9 x 4.6 in (311 x 327 x 117 mm)

**Platter Size:**
11.8 x 8.9 in (300 x 225 mm)

**Approvals:**
NTEP Certified 13-022 3000 e
CAN/CSA-C22.2 No. 61010-1-04
UL Std. No. 61010-1 (2nd edition)

**Warranty:**
One-year limited warranty



## Standard Features

- Weigh in kilograms, pounds, grams or ounces
- 30-item data storage
- Three backlit LCD display windows
- RS-232 output
- Quick stabilization

### Approvals

## Options:

- Ethernet
- Second platform

## Part Number/Price

| Part # | Model # | Description (lb (kg (oz (g) | Est. Weight | Price |
|---|---|---|---|---|
| **157273** | RC31P1502 | 3 x 0.0001 lb (1.5 x 0.00005 kg) (48 x 0.002 oz) (1,500 x 0.05 g) | 12 lb (5.45 kg) | $774.00 |
| **157275** | RC31P3 | 6 x 0.0002 lb (3 x 0.0001 kg) (96 x 0.05 oz) (3,000 x 0.1 g) | 12 lb (5.45 kg) | $774.00 |
| **157277** | RC31P6 | 15 x 0.0005 lb (6 x 0.0002 kg) (240 x 0.01 oz) (6,000 x 0.2 g) | 12 lb (5.45 kg) | $774.00 |
| **157278** | RC31P15 | 30 x 0.001 lb (15 x 0.0005 kg) (480 x 0.02 oz) (15,000 x 0.5 g) | 12 lb (5.45 kg) | $774.00 |
| **157279** | RC31P30 | 60 x 0.002 lb (30 x 0.001 kg) (960 x 0.05 oz) (30,000 x 1 g) | 12 lb (5.45 kg) | $774.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **157280** | Remote second scale option kit | $139.00 |
| **154638** | Ethernet kit | $151.00 |





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# DIGI® DMC-782 Series

Portable Coin Counting Scales



## Standard Features

- Liquid crystal display (LCD) with yellow backlight
- 18 preset keys for product ID
- Programmable denomination unit weight and tare weight
- Internal resolution of 1/500,000
- Accumulation
- Toggle display: count and money value
- Total amount calculation utilizing reverse counting

## Options:

- Rechargeable battery
- Carrying case

## Part Number/Price

| Part # | Description | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **111317** | DMC-782 | 6 lb x 0.001 lb | 11 lb (5 kg) | $590.00 |
| **111318** | DMC-782 | 15 lb x 0.002 lb | 11 lb (5 kg) | $590.00 |
| **111319** | DMC-782 | 60 lb x 0.01 lb | 11 lb (5 kg) | $590.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **15438** | Power cord | $17.75 |
| **111781** | Manual | $25.00 |
| **108516** | Rechargeable battery | $45.00 |
| **73296** | Carrying case, hard shell with locking latches | $200.00 |

## Specifications

**Internal Resolution:**
1/500,000

**Weight Display Resolution:**
1/7,500 or 1/6,000

**Display:**
Liquid crystal display (LCD) with backlight
Weight: five-digit
Denomination: five-digit
Quantity/Amount: six-digit

**Power Source:**
120 AC power supply or optional rechargeable battery

**Optional Battery:**
Charge time: 12-14 hours
Battery life: 300 hours (no backlight)

**Number of Scale Channels:**
One local scale

**Memory Items:**
18

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Dimensions:**
(W x L x H): 13.2 x 13.7 x 4.8 in
(335.7 x 349.7 x 123.5 mm)

**Platter Size:**
(W x L): 12 x 8.9 in (300 x 225 mm)

**Estimated Shipping Weight:**
11 lb (5 kg)

**Warranty:**
Two-year limited warranty



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# Crane Scales

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# MSI-3460 Challenger 3




*Contact MSI for application consultation*

## Standard Features

- Crane scale unit with five-digit, 1.5 in (38 mm) LED display
- Top lifting eye and bottom swivel hook
- Lb/kg switch selectable
- Six volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Meets or exceeds OSHA, ANSI, ASME and other safety design standards (5:1 Ultimate Safety Factor)
- NTEP Certified (250 lb-10,000 lb capacities)

## Approvals

*pending*

*pending*

## Options

**(Contact MSI for application consultation)**

- Rugged remote control (control for Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display (100 ft line of sight), TranSend and LaserLight2 remote display
- Universal direct power supply (115/230 VAC)
- Audible alarm
- Wi-Fi and Bluetooth® communication are available for specialty applications.




*Optional rugged remote*

## Specifications

**Accuracy:**
± (0.1% +1 d) of applied load

**Resolution:**
2000 to 3750 d standard (Up to 10,000 d available)

**Enclosure:**
NEMA Type 4, IP65, powder coated cast aluminum

**Lifting Eye & Hook:**
Crosby® or equivalent with 360° non-bearing swivel hook

**Design Overload:**
200% Safe / 500% Ultimate

**Functions:**
Power: Turns unit ON or OFF Zero: Zeros applied load up to 100% of capacity (limited range in NTEP/ OIML configurations) Tare: Tares applied load and displays weight in Net mode User: Programmable as TEST, UNITS, NET/GROSS, TOTAL, PEAK HOLD & SETPOINTS

**Display:**
5-digit, 1.5 in (38 mm) LED with programmable brightness control

**Displayable Units:**
Pounds or kilogram selectable

**Annunciators:**
COZ, Net, Gross, Total, Peak, Low Battery, lb/kg, Motion, Setpoints, ACK IN, ACK OUT, RF

**Power:**
6 Volt rechargeable battery. 115/230 VAC battery charger is included

**Operating Time:**
Up to 80 hours between charging with typical use. Less with optional RF Model

**Operating Temperature:**
-40° to 104°F (-40° to 40°C)

**Auto-Off Mode:**
Select for 15, 30, 45, 60 minutes or Off

**Auto Sleep Mode:**
Power down during non-use and power up with weight change or any key press

**Service Counters:**
Counts number of lifts over percentage of capacity and lifts over capacity

**Calibration:**
Digital

**Filtering:**
OFF, LO, HI-1, HI-2 selectable

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 86-021 (250 thru 10,000k only)



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## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **139102** | 502887-0001 | MSI-3460 250 lb/500 lb cap F/A | 250 lb (125 kg)<br>500 lb (250 kg) | 0.1 lb (0.05 kg)<br>0.2 lb (0.1 kg) | 22 lb (10 kg) | $1,890.00 |
| **139103** | 502887-0002 | MSI-3460 1,000 lb/2,000 lb cap F/A | 1,000 lb (500 kg)<br>2,000 lb (1,000 kg) | 0.5 lb (0.2 kg)<br>1 lb (0.5 kg) | 22 lb (10 kg) | $1,990.00 |
| **139104** | 502887-0003 | MSI-3460 5,000 lb/10,000 lb cap F/A | 5,000 lb (2,500 kg)<br>10,000 lb (5,000 kg) | 2 lb (1 kg)<br>5 lb (2 kg) | 39 lb (18 kg) | $2,495.00 |
| **139105** | 502887-0004 | MSI-3460 15,000 lb cap F/A | 15,000 lb (7,000 kg) | 5 lb (2 kg) | 67 lb (30 kg) | $3,415.00 |
| **139110** | 502887-0005 | MSI-3460 250 lb/500 lb cap F/A (with RF modem for connectivity to model MSI-8000 and remote) | 250 lb (125 kg)<br>500 lb (250 kg) | 0.1 lb (0.05 kg)<br>0.2 lb (0.1 kg) | 22 lb (10 kg) | $2,065.00 |
| **139111** | 502887-0010 | MSI-3460 1,000 lb/2,000 lb cap F/A (with RF modem for connectivity to model MSI-8000 and remote) | 1,000 lb (500 kg)<br>2,000 lb (1,000 kg) | 0.5 lb (0.2 kg)<br>1 lb (0.5 kg) | 22 lb (10 kg) | $2,195.00 |
| **139112** | 502887-0011 | MSI-3460 5,000 lb/10,000 lb cap F/A (with RF modem for connectivity to model MSI-8000 and remote) | 5,000 lb (2,500 kg)<br>10,000 lb (5,000 kg) | 2 lb (1 kg)<br>5 lb (2 kg) | 39 lb (18 kg) | $2,645.00 |
| **139113** | 502887-0012 | MSI-3460 15,000 lb cap F/A (with RF modem for connectivity to model MSI-8000 and remote) Capacity: 15,000 lb (7,000 kg) Resolution: 5 lb (2 kg) | 15,000 lb (7,000 kg) | 5 lb (2 kg) | 67 lb (30 kg) | $3,620.00 |
| **176905 *** | N/A | MSI-3460 250 lb/500 lb cap F/A with Bluetooth® | 250 lb (125 kg)<br>500 lb (250 kg) | 0.1 lb (0.05 kg)<br>0.2 lb (0.1 kg) | 22 lb (10 kg) | Consult |
| **176906 *** | N/A | MSI-3460 1,000 lb/2,000 lb cap F/A with Bluetooth® | 1,000 lb (500 kg)<br>2,000 lb (1,000 kg) | 0.5 lb (0.2 kg)<br>1 lb (0.5 kg) | 22 lb (10 kg) | Consult |
| **176907 *** | N/A | MSI-3460 5,000 lb/10,000 lb cap F/A with Bluetooth® | 5,000 lb (2,500 kg)<br>10,000 lb (5,000 kg) | 2 lb (1 kg)<br>5 lb (2 kg) | 39 lb (18 kg) | Consult |
| **176908 *** | N/A | MSI-3460 15,000 lb cap F/A with Bluetooth® | 15,000 lb (7,000 kg) | 5 lb (2 kg) | 67 lb (30 kg) | Consult |
| **176909** | N/A | MSI-3460 250 lb/500 lb cap F/A with Wi-Fi | 250 lb (125 kg)<br>500 lb (250 kg) | 0.1 lb (0.05 kg)<br>0.2 lb (0.1 kg) | 22 lb (10 kg) | $2,105.00 |
| **176910** | N/A | MSI-3460 1,000 lb/2,000 lb cap F/A with Wi-Fi | 1,000 lb (500 kg)<br>2,000 lb (1,000 kg) | 0.5 lb (0.2 kg)<br>1 lb (0.5 kg) | 22 lb (10 kg) | $2,220.00 |
| **176911** | N/A | MSI-3460 5,000 lb/10,000 lb cap F/A with Wi-Fi | 5,000 lb (2,500 kg)<br>10,000 lb (5,000 kg) | 2 lb (1 kg)<br>5 lb (2 kg) | 39 lb (18 kg) | $2,700.00 |
| **176912** | N/A | MSI-3460 15,000 lb cap F/A with Wi-Fi | 15,000 lb (7,000 kg) | 5 lb (2 kg) | 67 lb (30 kg) | $3,695.00 |

** Bluetooth modems only work with certain Android devices. Please contact MSI for potential applications.*

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **140049** | C00502-0001 | Battery assembly, 6 volt rechargeable | 3 lb (1.4 kg) | $125.00 |
| **139152** | 502956-0001 | Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard) | 5 lb (2.25 kg) | $170.00 |
| **139153** | 502956-0002 | Battery charger 115/230 VAC, 50/60 Hz (EC plug standard) | 5 lb (2.25 kg) | $170.00 |
| **197201** | N/A | Battery charger, 115 VAC, 50/60 Hz (NA plug standard) CEC compliant | — | $205.00 |
| **149549** | 503486-0001 | Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display | 3 lb (1.4 kg) | $135.00 |
| **178004** | N/A | LaserLight2, 4 in (101 mm) six-digit RF scoreboard (requires MSI-3460 with RF modem) | 21 lb (10 kg) | $2,135.00 |
| **178006** | N/A | LaserLight2, 6 in (152 mm) six-digit RF scoreboard (requires MSI-3460 with RF modem) | 37 lb (17 kg) | $2,545.00 |
| **Consult** | N/A | AC power supply | — | $295.00 |
| **Consult** | N/A | Audible setpoint alarm | — | $315.00 |
| **139395** | N/A | Challenger retrofit to 3460 electronics | 1 lb | $1,000.00 |
| **173014** | N/A | Rugged remote control (requires MSI-3460 with RF modem) | — | $295.00 |
| **139381** | 503208-0001 | MSI-8000 RF remote display (requires MSI-3460 with RF modem) | 5 lb (2.25 kg) | $1,190.00 |
| **153591** | | MSI-8000HD ScaleCore RF remote display (requires MSI-3460 with RF modem) | — | $1,300.00 |





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# MSI-4260 Port-A-Weigh




## Standard Features

- Crane unit with five-digit, 1.2 in (30 mm) LED display
- Top lifting eye or shackle, bottom thrust bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

## Approvals

NTEP

## Options

**(Contact MSI for application consultation)**

- Rugged remote control (control for Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display (100 ft line of sight), TranSend and LaserLight2 remote display
- Anti-heat shielding for high temperature applications
- Substitute bottom swivel hook with shackle
- Oversized top lifting eye or shackle
- Oversized bottom hook
- Universal direct power supply; 85-265 VAC, 47–440 Hz / 130–300 VDC
- Low headroom top adapter
- Audible alarm
- Wi-Fi and Bluetooth® communication are available for specialty applications. (Contact MSI for application consultation))
- Custom top and bottom interfaces
- Factory Mutual and ATEX approved Intrinsically Safe models available




*Optional rugged remote*

## Specifications

**Accuracy:**
± (0.1% +1 d) of applied load

**Resolution:**
3,000 to 5,000 d standard (up to 10,000 d available)

**Enclosure:**
NEMA Type 4, IP66 marine grade 356 alloy anodized cast aluminum

**Lifting Eye, Shackle & Hook:**
Crosby® or equal with 360° thrust-bearing swivel hook

**Design Overload:**
200% Safe / 500% Ultimate (except where noted)

**Functions:**
Power: Turns unit on or off
Zero: Zeros applied load up to 100% of capacity (limited range in NTEP Certified configuration)
Tare: Tares applied load and displays weight in Net mode F1: Programmable as test, units, net/gross, total and peak hold

**Display:**
Five-digit, 1.2 in (30 mm) LED with programmable brightness control

**Displayable Units:**
Pounds or kilograms selectable

**Annunciators:**
COZ, Net, Gross, Total, Peak, Low Battery, lb/kg, Motion, Setpoints

**Power:**
12 volt rechargeable battery. 115/230 VAC battery charger is included

**Operating Time:**
Up to 200 hours between charging with typical use, less with RF Modem option

**Operating Temperature:**
-40° F to 122° F (Industrial)

**Auto-Off Mode:**
Select for 15, 30, 45 minutes, 1 hour or Off

**Auto Sleep Mode:**
Power down during non-use and power up with weight change or any key press

**Service Counters:**
Counts number of lifts over percentage of capacity and lifts over capacity

**Calibration:**
Digital

**Filtering:**
OFF, LO, HI-1, HI-2 selectable

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP CC 89-090 - 500 lb-2,000 lb (250 kg-1,000 kg)
NTEP CC 89-090A1 - 5,000 lb-70,000 lb (2,000 kg-35,000 kg)
NTEP CC 88-098A2 - 5,000 lb-70,000 lb (2,000 kg-35,000 kg)



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## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **139460** | 503413-0001 | MSI-4260B 500 lb F/A | 500 lb (250 kg) | 0.2 lb (0.1 kg) | 53 lb (24 kg) | $4,080.00 |
| **139461** | 503413-0002 | MSI-4260B 2,000 lb F/A | 2,000 lb (1,000 kg) | 1.0 lb (0.5 kg) | 53 lb (24 kg) | $4,080.00 |
| **139462** | 503413-0003 | MSI-4260B 5,000 lb F/A | 5,000 lb (2,500 kg) | 1.0 lb (0.5 kg) | 62 lb (28 kg) | $4,190.00 |
| **139463** | 503413-0004 | MSI-4260B 10,000 lb F/A | 10,000 lb (5,000 kg) | 2.0 lb (1.0 kg) | 62 lb (28 kg) | $4,405.00 |
| **139464** | 503413-0005 | MSI-4260B 20,000 lb F/A | 20,000 lb (10,000 kg) | 5.0 lb (2.0 kg) | 105 lb (47 kg) | $5,920.00 |
| **139465** | 503413-0006 | MSI-4260B 30,000 lb F/A | 30,000 lb (15,000 kg) | 10 lb (5.0 kg) | 125 lb (55 kg) | $6,250.00 |
| **139466*** | 503413-0007 | MSI-4260B 50,000 lb F/A | 50,000 lb (25,000 kg) | 10 lb (5.0 kg) | 235 lb (106 kg) | $9,140.00 |
| **139467**** | 503413-0008 | MSI-4260B 70,000 lb F/A | 70,000 lb (35,000 kg) | 20 lb (10 kg) | 270 lb (121 kg) | $11,380.00 |
| **139468***** | 503413-0009 | MSI-4260B 100,000 lb F/A | 100,000 lb (50,000 kg) | 20 lb (10 kg) | 420 lb (189 kg) | $17,905.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **150971** | 503508-0001 | Option kit 4260B RF modem (RF modem install for connectivity with MSI-8000 modem and rugged remote) | N/A | $210.00 |
| **139381** | 503208-0001 | MSI-8000 RF remote display (requires MSI-4260 equipped with RF modem) | 5 lb (2.25 kg) | $1,190.00 |
| **173014** | N/A | RF rugged remote control (requires MSI-4260 equipped with RF modem) | N/A | $295.00 |
| **153591** | N/A | MSI-8000HD Remote Display, AC power and tilt bracket option | 3 lb | $1,300.00 |
| **159221** | N/A | Universal crane scale transport cart | 180 lb (82 kg) | $1,020.00 |
| **178004** | N/A | LaserLight2, 4 in (101 mm) six-digit RF scoreboard (requires MSI-4260 equipped with RF modem) | 21 lb (10 kg) | $2,135.00 |
| **178006** | N/A | LaserLight2, 6 in (152 mm) six-digit RF scoreboard (requires MSI-4260 equipped with RF modem) | 37 lb (17 kg) | $2,545.00 |
| **Consult** | N/A | AC direct power supply | | $510.00 |
| **Consult** | N/A | Audible set point alarm | | $375.00 |
| **Consult** | N/A | Anti-heat shield | | $955.00 |
| **152123** | N/A | Retrofit kit 4260 to 4260B | 8 lb | $2,305.00 |
| **176956** | N/A | Option kit, 4260B Wi-Fi | 0 lb | $415.00 |
| **Consult** | N/A | Option kit, 4260B Bluetooth® | 0 lb | Consult |
| **Accessories** | | | | |
| **150367** | D00559-0004 | Battery assembly, 12V rechargeable | 7 lb (3 kg) | $115.00 |
| **138006** | 502221-0001 | Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard) | 4 lb (2 kg) | $295.00 |
| **138007** | 502221-0002 | Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard) | 4 lb (2 kg) | $295.00 |
| **138008** | 502221-0003 | Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard) | 4 lb (2 kg) | $295.00 |
| **149549** | 503486-0001 | Universal 115/ 230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display | 3 lb (1.4 kg) | $135.00 |
| **4260 Sub Hook with Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb, 6.5 ton shackle | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb, 17 ton shackle | | Consult |
| **Consult** | N/A | 50,000 lb, 25 ton shackle | | Consult |
| **Consult** | N/A | 70,000 lb, 40 ton shackle | | Consult |
| **Consult** | N/A | 100,000 lb, 55 ton shackle | | Consult |
| **4260 Oversize Lifting Eye/Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb capacity | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb capacity, adapter with 25 ton shackle | | Consult |
| **Consult** | N/A | 50,000 to 70,000 lb capacity | | Consult |
| **Consult** | N/A | 100,000 lb capacity | | Consult |

** 490% of kg capacity*

*** 475% of lb capacity/430% of kg capacity*

**** 450% of kg capacity*





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# MSI-4260M Port-A-Weigh




## Standard Features

- IP66 cast aluminum
- Top lifting eye with lower link interface
- Five-digit, 1.75 in (44.5 mm) LCD with programmable brightness control
- Battery operated, six (6) D cell 1.5V alkaline batteries
- Meets or exceeds OSHA, ANSI, ASME and other safety design standards (5:1 Ultimate Safety Factor)
- NTEP Certified configuration

## Approvals

## Options

**(Contact MSI for application consultation)**

- Rugged remote control (control for On/Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display (100 ft line of sight), TranSend and LaserLight2 remote display
- Wi-Fi and Bluetooth® communication are available for specialty applications. (Contact MSI for application consultation))

## Specifications

**Accuracy:**
± (0.1% +1 d) of applied load

**Resolution:**
Max NTEP Approved Class III: 2,500 Divisions
Max NTEP Approved Class IIIL: 5,000 Divisions
Max Non NTEP Approved: 10,000 Divisions

**Enclosure:**
IP66 cast aluminum

**Lifting Eye, Link & Hook:**
Top lifting eye with lower link interface

**Design Overload:**
200% Safe / 500% Ultimate

**Functions:**
Power: Turns unit on or off
Zero: Zeros applied load up to 100% of capacity (limited range in NTEP configurations)
Tare: Tares applied load and displays weight in Net mode
User: Programmable as test, total, unit, peak hold, net/gross, view total and print

**Display:**
Five-digit, 1.75 in (44.5 mm) LCD with programmable brightness control

**Displayable Units:**
Pounds or kilograms selectable

**Annunciators:**
COZ, Battery Level, Net, Total, lb/kg, Stability, RF and Setpoint LEDs

**Power:**
Battery operated, six (6) D cell 1.5 V alkaline batteries

**Operating Time:**
Up to 1,000 hours of battery life with typical use, less with RF Modem option

**Operating Temperature:**
Legal for Trade: 14°F to 104°F (-10°C to 40°C)
Operating: -20°F to 122°F (-28°C to 50°C)

**Auto-Off Mode:**
Powers off after the scale is not used for the set time (in minutes); 15, 30, 45, 60 or OFF selectable

**Auto Sleep Mode:**
Powers down during non-use after the set time (in minutes) and powers up with weight change or any key press; 5, 15, 30 or OFF selectable

**Service Counters:**
Counts number of lifts over percentage of capacity and lifts over capacity

**Calibration:**
Digital (procedure initiated by calibration switch)

**Filtering:**
OFF, LO, HI-1 or HI-2 selectable

**Radio Link:**
802.15.4 at 2.4 GHz

**Radio Effective Range:**
Typically 100-300 ft line of sight

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP COC 19-122



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## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **194593** | | MSI-4260M | 5,000 lb | 1.0 lb (0.5 kg) | 58 lb (26 kg) | $4,495.00 |
| **196908** | | MSI-4260M w/RF | 5,000 lb | 1.0 lb (0.5 kg) | 58 lb (26 kg) | $4,770.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **150971** | 503508-0001 | Option kit 4260M RF modem (RF modem install for connectivity with MSI-8000 modem and rugged remote) | N/A | $210.00 |
| **139381** | 503208-0001 | MSI-8000 RF remote display (requires MSI-4260M equipped with RF modem) | 5 lb (2.25 kg) | $1,190.00 |
| **173014** | N/A | RF rugged remote control (requires MSI-4260M equipped with RF modem) | N/A | $295.00 |
| **153591** | N/A | MSI-8000HD Remote Display, AC power and tilt bracket option (requires MSI-4260M equipped with RF modem) | 3 lb | $1,300.00 |
| **159221** | N/A | Universal crane scale transport cart | 180 lb (82 kg) | $1,020.00 |
| **178004** | N/A | LaserLight2, 4 in (101 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem) | 21 lb (10 kg) | $2,135.00 |
| **178006** | N/A | LaserLight2, 6 in (152 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem) | 37 lb (17 kg) | $2,545.00 |
| **Consult** | N/A | Option kit, 4260M Wi-Fi | 0 lb | Consult |
| **Consult** | N/A | Option kit, 4260M Bluetooth® | 0 lb | Consult |





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# MSI-4260 IS Intrinsically Safe Crane Scale Port-A-Weigh




## Standard Features

- Crane unit with five-digit, 1.2 in (30 mm) LED display
- Top lifting eye or shackle, bottom thrust bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

## Approvals

FM APPROVED

*Pending*

## Specifications

**Accuracy:**
± (0.1% +1 d) of applied load

**Resolution:**
3,000 to 5,000 d standard (up to 10,000 d available)

**Enclosure:**
NEMA Type 4, IP66 marine grade 356 alloy anodized cast aluminum

**Intrinsic Safety:**
**US Listings**
FM16US0156X
IS / I, II, III / 1 / CDEFG / T4 Ta = -20°C to 50°C
I / 0 / AEx ia / IIB / T4 Ta = -20°C to 50°C Ga
20 / AEx ia / IIIC / T135°C Ta = -20°C to 50°C Da
**Canadian Listings**
FM16CA0092X
IS / I / 1 / CD / T4 Ta = -10°C to 50°C
IS / II, III / 1 / EFG / T4 Ta = -10°C to 50°C
I / 0 / Ex ia / IIB / T4 Ta = -10°C to 50°C Ga
20 / Ex ia / IIIC / T135°C Ta = -10°C to 50°C Da
**ATEX Listings**
FM18ATEX0052X
II 1 G Ex ia IIB T4 Ga -10°C ≤ Ta ≤ 50°C
II 1 D Ex ia IIIC T135°C Da -10°C ≤ Ta ≤ 50°C

**Lifting Eye, Shackle & Hook:**
Crosby® or equal with 360° thrust-bearing swivel hook

**Design Overload:**
200% Safe / 500% Ultimate (except where noted)

**Functions:**
Power: Turns unit on or off
Zero: Zeros applied load up to 100% of capacity (limited range in NTEP Certified configuration)
Tare: Tares applied load and displays weight in Net mode F1: Programmable as test, units, net/gross, total and peak hold

**Display:**
Five-digit, 1.2 in (30 mm) LED with programmable brightness control

**Displayable Units:**
Pounds or kilograms selectable

**Annunciators:**
COZ, Net, Gross, Total, Peak, Low Battery, lb/kg, Motion, Setpoints

**Power:**
12 volt rechargeable battery.
115/230 VAC approved battery charger is included

**Operating Time:**
Up to 200 hours between charging with typical use

**Auto-Off Mode:**
Select for 15, 30, 45 minutes, 1 hour or Off

**Auto Sleep Mode:**
Power down during non-use and power up with weight change or any key press

**Service Counters:**
Counts number of lifts over percentage of capacity and lifts over capacity

**Calibration:**
Digital

**Filtering:**
OFF, LO, HI-1, HI-2 selectable

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP CC 19-122



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# MSI-4260 IS Intrinsically Safe Crane Scale Port-A-Weigh

## Part Number/Price

| Part # | Description | Capacity | Resolution | Price |
|---|---|---|---|---|
| **156013** | 500LB, Swivel Hook | 500 lb (250 kg) | 0.2 lb (0.1 kg) | $5,995.00 |
| **156014** | 2K, Swivel Hook | 2,000 lb (1,000 kg) | 1.0 lb (0.5 kg) | $5,995.00 |
| **156015** | 5K, Swivel Hook | 5,000 lb (2,500 kg) | 1.0 lb (0.5 kg) | $5,995.00 |
| **156016** | 10K, Swivel Hook | 10,000 lb (5,000 kg) | 2.0 lb (1.0 kg) | $5,995.00 |
| **156017** | 20K, Swivel Hook | 20,000 lb (10,000 kg) | 5.0 lb (2.0 kg) | $7,595.00 |
| **156018** | 30K, Swivel Hook | 30,000 lb (15,000 kg) | 10 lb (5.0 kg) | $7,595.00 |
| **156019** | 50K, Swivel Hook | 50,000 lb (25,000 kg) | 10 lb (5.0 kg) | $10,995.00 |
| **156020** | 70K, Swivel Hook | 70,000 lb (35,000 kg) | 20 lb (10 kg) | $12,995.00 |
| **156021** | 100K, Swivel Hook | 100,000 lb (50,000 kg) | 20 lb (10 kg) | $19,995.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **170606** | Battery Charger | $275.00 |
| **167777** | Spare Battery | $245.00 |





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# MSI-4300 Port-A-Weigh Plus




*Contact MSI for application consultation*

## Standard Features

- Crane scale unit with six-digit, 1.6 in (40 mm), backlight LCD display
- Top lifting eye or shackle, bottom thrust bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Meets or exceeds OSHA, ANSI, ASME and other safety design standards (5:1 Ultimate Safety Factor)
- NTEP Certified configuration

## Approvals

## Options

- D-cell battery option, provides up to 2,000 hours of operation
- Substitute bottom swivel hook with shackle
- Oversized top-lifting eye or shackle
- Oversized bottom hook
- Universal direct power supply; 85-265 VAC, 47-440 Hz /130-300 VDC
- Low headroom top adapter
- Audible setpoint alarm
- Custom top and bottom interfaces
- Crane scale cart



*Optional crane scale cart*

## Specifications

**Accuracy:**
±0.1% +1 d of applied load

**Resolution:**
3,000 to 5,000 d standard (Up to 10,000 d available)

**Enclosure:**
NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

**Top Lifting Eye, Shackle & Hook:**
Crosby® or equal with 360° thrust-bearing swivel hook

**Design Overload:**
200% Safe / 500% Ultimate (except where noted)

**Functions:**
Power, zero, net/gross, tare and programmable test/user

**Display:**
6 digit, 1.6 in (40 mm) LCD (upper) 8 digit, 0.8 in (20 mm) LCD (lower) with adjustable display contrast

**Displayable Units:**
Pounds, kilograms, tons, and metric tons selectable

**Power:**
12 V rechargeable battery. 115/230 VAC battery charger included

**Operating Time:**
300 hours with typical use

**Operating Temperature:**
5°F to 122°F (-15°C to 50°C)

**Filtering:**
OFF, LO, Medium and HI selectable

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 92-176 - 5,000 lb (2,500 kg)
Measurement Canada AM-4984



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## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **138825** | 502666-0013 | MSI-4300 500 lb F/A | 500 lb (250 kg) | 0.2 lb (0.1 kg) | 53 lb (24 kg) | $4,740.00 |
| **138826** | 502666-0014 | MSI-4300 2,000 lb F/A | 2,000 lb (1000 kg) | 1.0 lb (0.5 kg) | 53 lb (24 kg) | $4,740.00 |
| **138827** | 502666-0015 | MSI-4300 5,000 lb F/A | 5,000 lb (2500 kg) | 1.0 lb (0.5 kg) | 62 lb (28 kg) | $4,860.00 |
| **138828** | 502666-0016 | MSI-4300 10,000 lb F/A | 10,000 lb (5000 kg) | 2.0 lb (1.0 kg) | 62 lb (28 kg) | $5,110.00 |
| **138069** | 502235-0032 | MSI-4300 20,000 lb F/A | 20,000 lb (10,000 kg) | 5.0 lb (2.0 kg) | 105 lb (47 kg) | $6,380.00 |
| **138070** | 502235-0033 | MSI-4300 30,000 lb F/A | 30,000 lb (15,000 kg) | 10 lb (5.0 kg) | 125 lb (55 kg) | $6,705.00 |
| **138071*** | 502235-0034 | MSI-4300 50,000 lb F/A | 50,000 lb (25,000 kg) | 10 lb (5.0 kg) | 235 lb (106 kg) | $9,390.00 |
| **138072**** | 502235-0035 | MSI-4300 70,000 lb F/A | 70,000 lb (35,000 kg) | 20 lb (10 kg) | 270 lb (121 kg) | $11,595.00 |
| **138073***** | 502235-0036 | MSI-4300 100,000 lb F/A | 100,000 lb (50,000 kg) | 20 lb (10 kg) | 420 lb (189 kg) | $18,980.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **159221** | N/A | Universal crane scale transport cart | 180 lb (82 kg) | $1,020.00 |
| **Consult** | N/A | Audible set point alarm | | $380.00 |
| **Consult** | N/A | AC power supply | | $510.00 |
| **Consult** | N/A | D cell battery option | | Consult |
| **Accessories** | | | | |
| **150367** | D00559-0004 | Battery assembly, 12 volt rechargeable | 7 lb (3 kg) | $115.00 |
| **138006** | 502221-0001 | Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard) | 4 lb (2 kg) | $295.00 |
| **138007** | 502221-0002 | Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard) | 4 lb (2 kg) | $295.00 |
| **138008** | 502221-0003 | Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard) | 4 lb (2 kg) | $295.00 |
| **4300 Sub Hook with Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb, 6.5 ton shackle | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb, 17 ton shackle | | Consult |
| **Consult** | N/A | 50,000 lb, 25 ton shackle | | Consult |
| **Consult** | N/A | 70,000 lb, 40 ton shackle | | Consult |
| **Consult** | N/A | 100,000 lb, 55 ton shackle | | Consult |
| **4300 Oversize Lifting Eye/Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb capacity | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb capacity, adapter with 25 ton shackle | | Consult |
| **Consult** | N/A | 50,000 to 70,000 lb capacity | | Consult |
| **Consult** | N/A | 100,000 lb capacity | | Consult |

** 490% of kg capacity*

*** 475% of lb capacity/430% of kg capacity*

**** 450% of kg capacity*





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# MSI-9300 Port-A-Weigh Plus CellScale™ RF




*Contact MSI for application consultation*

## Standard Features

- Crane unit with 2.4 GHz Spread Spectrum transceiver
- Six-digit, 1.2 in (30 mm) LED display and annunciators
- Top lifting eye or shackle, bottom thrust bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA Plug Standard)
- NTEP Certified Configuration

## Approvals

## Options

**(Contact MSI for application consultation)**

- RF remote crane unit control, includes On/Off, Zero, Tare, Net/Gross, Total and programmable function keys
- Audible alarm
- Anti-heat shielding for high-temperature applications
- Substitute bottom swivel hook with shackle
- Low headroom top adapter
- Oversized top lifting eye or shackle
- Oversized bottom hook
- Universal direct power supply; 85-265 VAC, 47-440 Hz / 130-300 VDC
- Wireless 802.11 b/g Ethernet connectivity
- MSI-9300 retrofit kit - conversion kit to upgrade existing MSI-4300 crane scale to 9300 RF unit
- Custom top and bottom interfaces
- Potential receivers: MSI-9850, 9750A, remote RF Indicators (each sold separately)
- Crane scale cart



*Optional crane scale cart*

## Specifications

**Accuracy:**
± 0.1% +1 d of applied load

**Resolution:**
3,000 to 5,000 d standard (Up to 10,000 d available)

**Enclosure:**
NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

**Lifting Eye, Shackle & Hook:**
Crosby® or equal with 360º thrust-bearing swivel hook.

**Design Overload:**
200% Safe / 500% Ultimate (except where noted)

**Functions:**
POWER, ZERO, NET/GROSS, TARE and Programmable TEST/USER

**Display:**
Six digit, 1.2 in (30 mm) LED with 14 feature annunciators and programmable brightness control

**Displayable Units:**
Pounds or kilograms selectable

**Power:**
12 V rechargeable battery, 115-230 VAC battery charger included

**Operating Time:**
Up to 30 hours between charging with typical use

**Operating Temperature:**
-4ºF to 140ºF (-20ºC to 60ºC)

**Calibration:**
Digital via MSI-9750A or MSI-9850 RF indicators or via serial interface with PC terminal program

**Filtering:**
LO, Medium and HI selectable

**Radio Link:**
FHSS at 2.4 GHz

**Radio Effective Range:**
Typically 500 ft (150 m) indoor, 1000 ft (300 m) outdoor with standard antennas

**Approvals:**
NTEP CC 07-007; 5,000 - 70,000 lb (2,500 - 35,000 kg capacities)

**Warranty:**
One-year limited warranty



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## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **138704** | 502654-0001 | MSI-9300 500 lb F/A | 500 lb (250 kg) | 0.2 lb (0.1 kg) | 53 lb (24 kg) | $6,485.00 |
| **138705** | 502654-0002 | MSI-9300 2,000 lb F/A | 2,000 lb (1,000 kg) | 1.0 lb (0.5 kg) | 53 lb (24 kg) | $6,485.00 |
| **138706** | 502654-0003 | MSI-9300 5,000 lb F/A | 5,000 lb (2,500 kg) | 1.0 lb (0.5 kg) | 62 lb (28 kg) | $6,600.00 |
| **138707** | 502654-0004 | MSI-9300 10,000 lb F/A | 10,000 lb (5,000 kg) | 2.0 lb (1.0 kg) | 62 lb (28 kg) | $6,840.00 |
| **138409** | 502518-0005 | MSI-9300 20,000 lb F/A | 20,000 lb (10,000 kg) | 5.0 lb (2.0 kg) | 105 lb (47 kg) | $8,105.00 |
| **138410** | 502518-0006 | MSI-9300 30,000 lb F/A | 30,000 lb (15,000 kg) | 10 lb (5.0 kg) | 125 lb (55 kg) | $8,465.00 |
| **138419*** | 502518-0015 | MSI-9300 50,000 lb F/A | 50,000 lb (25,000 kg) | 10 lb (5.0 kg) | 235 lb (106 kg) | $11,115.00 |
| **138420**** | 502518-0016 | MSI-9300 70,000 lb F/A | 70,000 lb (35,000 kg) | 20 lb (10 kg) | 270 lb (121 kg) | $13,330.00 |
| **138421***** | 502518-0017 | MSI-9300 100,000 lb F/A | 100,000 lb (50,000 kg) | 20 lb (10 kg) | 420 lb (189 kg) | $20,740.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **159625** | N/A | MSI-9850 RF remote indicator (wall or desk mount) | 10 lb (5 kg) | $2,640.00 |
| **138486** | 502541-0001 | MSI-9750 RF portable indicator | 2 lb (1 kg) | $1,980.00 |
| **139056** | N/A | 4 in (101 mm) six-digit RF scoreboard | 21 lb (10 kg) | $3,100.00 |
| **139052** | N/A | 6 in (152 mm) six-digit RF scoreboard | 37 lb (17 kg) | $3,845.00 |
| **138341** | 502488-0001 | Universal mounting bracket for MSI-9850 RF remote indicator | 2 lb (1 kg) | $140.00 |
| **159221** | N/A | Universal crane scale transport cart | 180 lb (82 kg) | $1,020.00 |
| **138298** | 502434-0001 | RF remote controller | 1 lb | $325.00 |
| **138317** | 502452-0001 | Spare RF remote | 1 lb | $115.00 |
| **Consult** | N/A | AC power supply | | $510.00 |
| **Consult** | N/A | Anti-heat shield | | $960.00 |
| **Consult** | N/A | Audible alarm | | $380.00 |
| **Consult** | N/A | Wi-Fi Ethernet option | | $375.00 |
| **138452** | 502520-0001 | Retrofit kit 4300 D cell to 9300 12 Volt | 1 lb | $4,555.00 |
| **138453** | 502520-0002 | Retrofit kit 4300 D cell to 9300 no modem | 1 lb | $3,615.00 |
| **138454** | 502520-0003 | Retrofit kit 4300 to 9300 | 1 lb | $4,120.00 |
| **138455** | 502520-0004 | Retrofit kit 4300 to 9300 no modem | 1 lb | $3,090.00 |
| **9300 Sub Hook with Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb, 6.5 ton shackle | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb, 17 ton shackle | | Consult |
| **Consult** | N/A | 50,000 lb, 25 ton shackle | | Consult |
| **Consult** | N/A | 70,000 lb, 40 ton shackle | | Consult |
| **Consult** | N/A | 100,000 lb, 55 ton shackle | | Consult |
| **9300 Oversize Lifting Eye/Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb capacity | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb capacity, adapter with 25 ton shackle | | Consult |
| **Consult** | N/A | 50,000 to 70,000 lb capacity | | Consult |
| **Consult** | N/A | 100,000 lb capacity | | Consult |
| **Accessories** | | | | |
| **150367** | D00559-0004 | Battery assembly, 12 volt rechargeable | 7 lb (3 kg) | $115.00 |
| **148624** | 501705-0001 | RS-232/RS-485 serial cable | 1 lb (0.45 kg) | $115.00 |
| **138006** | 502221-0001 | Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard) | 4 lb (2 kg) | $295.00 |
| **138007** | 502221-0002 | Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard) | 4 lb (2 kg) | $295.00 |
| **138008** | 502221-0003 | Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard) | 4 lb (2 kg) | $295.00 |

** 490% of kg capacity*

*** 475% of lb capacity/430% of kg capacity*

**** 450% of kg capacity*





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# MSI-9300HT Hi-Torque Port-A-Weigh Plus CellScale™ RF




*Contact MSI for application consultation*

## Standard Features

- Crane unit with 2.4 GHz spread spectrum transceiver
- Six-digit, 30 mm (1.2 in) LED display and annunciators
- Top shackle (sold seperately), bottom thrust bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Hi-torque load train designed for use with powered rotation

## Options

**(Contact MSI for application consultation)**

- RF remote crane unit control, includes On/Off, Zero, Tare, Net/Gross, Total and programmable function keys
- Anti-heat shielding for high-temperature applications
- Substitute bottom swivel hook with shackle
- Oversized top or shackle
- Oversized bottom hooks
- Universal direct power supply; 85-265 VAC, 47-440 Hz / 130-300 VDC
- Wireless 802.11 b/g Ethernet connectivity
- Low headroom top adaptor
- Top shackle
- Audible alarm
- Custom top and bottom interfaces
- Potential receivers: MSI-9850, 9750A, remote RF Indicators (each sold separately)

## Specifications

**Accuracy:**
± 0.1% +1 d of capacity

**Resolution:**
3000 to 5000 d standard (Up to 10,000 d available)

**Enclosure:**
NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

**Lifting Eye, Shackle & Hook:**
Shackle is optional and Crosby fixed hook provided as standard.

**Design Overload:**
200% Safe / 500% Ultimate

**Functions:**
POWER, ZERO, NET/GROSS, TARE and Programmable TEST/USER

**Display:**
6 digit, 1.2 in (30 mm) LED with 14 feature annunciators and programmable brightness control

**Displayable Units:**
Pounds or kilograms selectable

**Power:**
12 Volt rechargeable battery, 115-230 VAC battery charger included

**Operating Time:**
Up to 30 hours between charging with typical use

**Operating Temperature:**
-4ºF to 140ºF (-20ºC to 60ºC)

**Calibration:**
Digital via MSI-9750A or MSI-9850 RF indicators or via serial interface with PC terminal program.

**Filtering:**
LO, Medium and HI selectable

**Radio Link:**
FHSS at 2.4 GHz

**Radio Effective Range:**
Typically 500 ft (150 m) indoor, 1000 ft (300 m) outdoor with standard antennas.

**Warranty:**
One-year limited



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# MSI-9300HT Hi-Torque Port-A-Weigh Plus CellScale™ RF

## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **138440** | 502519-0001 | MSI-9300HT 30,000 lb F/A | 30,000 lb (15,000 kg) | 10 lb (5.0 kg) | 125 lb (55 kg) | $14,595.00 |
| **138441** | 502519-0002 | MSI-9300HT 70,000 lb F/A | 70,000 lb (35,000 kg) | 20 lb (10 kg) | 270 lb (121 kg) | Consult |
| **162377** | N/A | MSI-9300HT 120,000 lb F/A | 120,000 lb (60,000 kg) | 50 lb (20 kg) | 550 lb (250 kg) | Consult |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **141992** | 10539 | Top lifting shackle Crosby® G2130 17 ton for 30,000 lb cap unit | 19.5 lb (8.9 kg) | Consult |
| **146335** | 23650-0040 | Top lifting shackle Crosby® G2140 40 ton for 70,000 lb cap unit | 34 lb (15 kg) | Consult |
| **146336** | 23650-0050 | Top lifting shackle Crosby® G2140 55 ton* for 120,000 lb cap unit | 104 lb (47 kg) | Consult |
| **159625** | N/A | MSI-9850 RF remote indicator (wall or desk mount) | 10 lb (5 kg) | $2,640.00 |
| **138486** | 502541-0001 | MSI-9750 RF portable Indicator | 2.2 lb (1 kg) | $1,980.00 |
| **139056** | N/A | 4 in (101 mm) six-digit RF scoreboard | 21 lb (10 kg) | $3,100.00 |
| **139052** | N/A | 6 in (152 mm) six-digit RF scoreboard | 37 lb (17 kg) | $3,845.00 |
| **138341** | 502488-0001 | Universal mounting bracket for MSI-9850 RF remote indicator | 2.2 lb (1 kg) | $140.00 |
| **159221** | N/A | Universal crane scale transport cart | 180 lb (82 kg) | $1,020.00 |
| **138298** | 502434-0001 | RF remote controller | 1 lb (0.45 kg) | $325.00 |
| **138317** | 502452-0001 | Spare RF remote | 1 lb (0.45 kg) | $115.00 |
| **Consult** | N/A | AC direct power supply | | $510.00 |
| **Consult** | N/A | Anti-heat shield | | $960.00 |
| **Consult** | N/A | Audible alarm | | $380.00 |
| **Consult** | N/A | Wi-Fi Ethernet option | | $375.00 |
| **Accessories** | | | | |
| **148624** | 501705-0001 | RS-232/RS-485 serial cable | 1 lb (0.45 kg) | $115.00 |
| **150367** | D00559-0004 | Battery assembly, 12 volt rechargeable | 6.6 lb (3 kg) | $115.00 |
| **138006** | 502221-0001 | Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard) | 4 lb (2 kg) | $295.00 |
| **138007** | 502221-0002 | Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard) | 4 lb (2 kg) | $295.00 |
| **138008** | 502221-0003 | Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard) | 4 lb (2 kg) | $295.00 |

** 55 Metric Tons = 121,254 lbs*





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# MSI-6260CS Trans-Weigh CellScale™ RF




*Contact MSI for application consultation*

## Standard Features

- Crane unit with 2.4 GHz spread spectrum transceiver
- Top lifting eye or shackle, bottom thrust bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA Plug Standard)
- Meets or exceeds OSHA, ANSI, ASME and other safety design standards (5:1 Ultimate Safety Factor)
- NTEP Certified configuration

## Approvals

## Options

- ScaleCore configurations available
- Anti-heat shielding for high-temperature applications
- Substitute bottom swivel hook with shackle
- Oversized top lifting eye or shackle
- Oversized bottom hook
- Low headroom top adaptor
- Universal direct power supply; 85-265 VAC, 47-440 Hz / 130-300 VDC
- Wireless 802.11 b/g Ethernet connectivity
- MSI-6260CS retrofit kit - conversion kit to upgrade existing MSI-4260 crane scales to MSI-6260CS
- Custom top and bottom interfaces
- Potential receivers: MSI-9850, MSI-9750A, Scoreboard, TranSend
- Crane scale cart



*Optional crane scale cart*

## Specifications

**Accuracy:**
± (0.1% +1 d) of applied load

**Resolution:**
3,000 to 5,000 d standard (Up to 10,000 d available)

**Enclosure:**
NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

**Lifting Eye, Shackle & Hook:**
Crosby® or equivalent with 360° thrust-bearing swivel hook

**Design Overload:**
200% Safe / 500% Ultimate (except where noted)

**Functions:**
POWER On/Off (all other scale functions are controlled from other optional networked MSI scale indicators MSI-9850 and/or MSI-9750A)

**Displayable Units:**
Pounds or kilograms selectable

**Power:**
12 Volt rechargeable battery, 115/230 VAC battery charger included

**Operating Time:**
Up to 40 hours between charging with typical use

**Operating Temperature:**
-4ºF to 140ºF (-20ºC to 60ºC)

**Calibration:**
Digital via MSI-9750A or MSI-9850 RF indicators or via serial interface with PC terminal program

**Radio Link:**
FHSS at 2.4 GHz

**Radio Link Effective Range:**
Typically 500 ft (150 m) indoor, 1000 ft (300 m) outdoor with standard antennas

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 07-007: 5,000 to 70,000 lb (2,500 kg to 35,000 kg)



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## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **138729** | 502655-0001 | MSI-6260 500 lb F/A | 500 lb (250 kg) | 0.2 lb (0.1 kg) | 53 lb (24 kg) | $5,180.00 |
| **138730** | 502655-0002 | MSI-6260 2,000 lb F/A | 2,000 lb (1000 kg) | 1.0 lb (0.5 kg) | 53 lb (24 kg) | $5,180.00 |
| **138731** | 502655-0003 | MSI-6260 5,000 lb F/A | 5,000 lb (2500 kg) | 1.0 lb (0.5 kg) | 62 lb (28 kg) | $5,285.00 |
| **138732** | 502655-0004 | MSI-6260 10,000 lb F/A | 10,000 lb (5000 kg) | 2.0 lb (1.0 kg) | 62 lb (28 kg) | $5,515.00 |
| **138506** | 502559-0005 | MSI-6260 20,000 lb F/A | 20,000 lb (10,000 kg) | 5.0 lb (2.0 kg) | 105 lb (47 kg) | $6,720.00 |
| **138507** | 502559-0006 | MSI-6260 30,000 lb F/A | 30,000 lb (15,000 kg) | 10 lb (5.0 kg) | 125 lb (55 kg) | $7,050.00 |
| **138508*** | 502559-0007 | MSI-6260 50,000 lb F/A | 50,000 lb (25,000 kg) | 10 lb (5.0 kg) | 235 lb (106 kg) | $9,590.00 |
| **138509**** | 502559-0008 | MSI-6260 70,000 lb F/A | 70,000 lb (35,000 kg) | 20 lb (10 kg) | 270 lb (121 kg) | $11,685.00 |
| **138510***** | 502559-0009 | MSI-6260 100,000 lb F/A | 100,000 lb (50,000 kg) | 20 lb (10 kg) | 420 lb (189 kg) | $18,725.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **159625** | N/A | MSI-9850 RF remote indicator (wall or desk mount) | 10 lb (5 kg) | $2,640.00 |
| **138486** | 502541-0001 | MSI-9750 RF portable indicator | 2.2 lb (1 kg) | $1,980.00 |
| **138341** | 502488-0001 | Universal mounting bracket for MSI-9850 RF remote indicator | 2.2 lb (1 kg) | $140.00 |
| **159221** | N/A | Universal crane scale transport cart | 180 lb (82 kg) | $1,020.00 |
| **139056** | N/A | 4 in (101 mm) six-digit RF scoreboard | 21 lb (10 kg) | $3,100.00 |
| **139052** | N/A | 6 in (152 mm) six-digit RF scoreboard | 37 lb (17 kg) | $3,845.00 |
| **Consult** | N/A | AC power supply | | $510.00 |
| **Consult** | N/A | Anti-heat shield | | $960.00 |
| **Consult** | N/A | Audible alarm | | Consult |
| **Consult** | N/A | Wi-Fi Ethernet option | | $375.00 |
| **138575** | N/A | Retrofit kit 4260 to 6260 CS | 1 lb (0.45 kg) | $2,830.00 |
| **6260 Sub Hook with Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb, 6.5 ton shackle | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb, 17 ton shackle | | Consult |
| **Consult** | N/A | 50,000 lb, 25 ton shackle | | Consult |
| **Consult** | N/A | 70,000 lb, 40 ton shackle | | Consult |
| **Consult** | N/A | 100,000 lb, 55 ton shackle | | Consult |
| **6260 Oversize Lifting Eye/Shackle** | | | | |
| **Consult** | N/A | 500 to 10,000 lb capacity | | Consult |
| **Consult** | N/A | 20,000 to 30,000 lb capacity, adapter with 25 ton shackle | | Consult |
| **Consult** | N/A | 50,000 to 70,000 lb capacity | | Consult |
| **Consult** | N/A | 100,000 lb capacity | | Consult |
| **Accessories** | | | | |
| **148624** | 501705-0001 | RS-232/RS-485 serial cable | 1 lb (0.45 kg) | $115.00 |
| **150367** | D00559-0004 | Battery assembly, 12 volt rechargeable | 6.6 lb (3 kg) | $115.00 |
| **138006** | 502221-0001 | Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard) | 4 lb (2 kg) | $295.00 |
| **138007** | 502221-0002 | Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard) | 4 lb (2 kg) | $295.00 |
| **138008** | 502221-0003 | Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard) | 4 lb (2 kg) | $295.00 |

** 490% of kg capacity*

*** 475% of lb capacity/430% of kg capacity*

**** 450% of kg capacity*





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# MSI-7300 Dyna-Link 2

Digital Tension Dynamometer




*Shown with optional shackles*

*Contact MSI for application consultation*

## Standard Features

- Tension dynamometer with 6-digit, 1.00 in (25.4 mm) LCD display
- Two C alkaline batteries for capacities up to 10,000 lb (5,000 kg)
- Two D alkaline batteries for capacities 25,000 lb (12,500 kg) and above

## Additional Options

**(Contact MSI for application consultation)**

- Crosby® top and bottom shackles
- Portable transport case
- Serial output cable
- Rugged remote control (control for Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display (100 ft line of sight) and TranSend
- Heavy capacity configurations (60 to 275 Ton)
- Audible alarm
- Wi-Fi or Bluetooth® communications are available for specialty applications. (Contact MSI for application consultation)

## Specifications

**Accuracy:**
0.1% FS of rated capacity (up to 50 ton)
0.5% FS of rated capacity (50 ton and above)

**Enclosure:**
NEMA Type 4, IP65, anodized corrosion-resistant finish

**Material:**
2024 aircraft grade aluminum
Capacities above 100 K have zinc plated enclosures and 4340 load cell bodies

**Design Overload:**
200% Safe/700% Ultimate* (except where noted)

**Functions:**
On/Off, Zero, Hi-Speed Peak Hold, Setpoints, Total, Tare, Auto-Off, Motion Filter

**Display:**
6 digit, 1.00 in (25.4 mm) LCD

**Displayable Units:**
Pounds, kilograms, kilonewtons, tons, metric tons

**LED Annunciators:**
Function 1, Function 2, Setpoint 1, Setpoint 2

**LCD Annunciators:**
Net, Center of Zero, Stable, Battery Test, Peak Hold, Total

**Power:**
Two each C alkaline batteries for capacities up to 10,000 lb two each D alkaline batteries for capacities 25,000 lb–100,000 lb

**Operating Time:**
From 150 to 300 hours in typical use depending on unit capacity and battery configuration. Approximately 25 to 30 hours with optional RF modem link installed.

**Operating Temperature:**
- 4°F to 140°F (-20°C to 60°C)

**Calibration:**
Digital

**Filtering:**
OFF, LO, HI selectable

**Data Output:**
Serial RS-232

**Warranty:**
Two-year limited

## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **139162** | 502967-0001 | MSI-7300 1,000 lb F/A | 1,000 lb (500 kg) | 0.5 lb (0.2 kg) | 8 lb (3.6 kg) | $1,455.00 |
| **139163** | 502967-0002 | MSI-7300 2,500 lb F/A | 2,500 lb (1,250 kg) | 1 lb (0.5 kg) | 9 lb (4.0 kg) | $1,455.00 |
| **139164** | 502967-0003 | MSI-7300 5,000 lb F/A | 5,000 lb (2,500 kg) | 2 lb (1.0 kg) | 9 lb (4.0 kg) | $1,455.00 |
| **139165** | 502967-0004 | MSI-7300 10,000 lb F/A | 10,000 lb (5,000 kg) | 5 lb (2.0 kg) | 11 lb (5.0 kg) | $1,555.00 |
| **139166** | 502967-0005 | MSI-7300 25,000 lb F/A | 25,000 lb (12,500 kg) | 10 lb (5 kg) | 19 lb (8.6 kg) | $2,090.00 |
| **139167** | 502967-0006 | MSI-7300 50,000 lb F/A | 50,000 lb (25,000 kg) | 20 lb (10 kg) | 29 lb (13 kg) | $2,705.00 |
| **139168*** | 502967-0007 | MSI-7300 100,000 lb F/A | 100,000 lb (50,000 kg) | 50 lb (20 kg) | 65 lb (30 kg) | $3,535.00 |
| **Optional Configurations (for connectivity to MSI-8000 RF Remote Display) F/A** | | | | | | |
| **139441** | 503381-0001 | MSI-7300 RF module | 1,000 lb (500 kg) | 0.5 lb (.2 kg) | 8 lb (3.6 kg) | $1,635.00 |
| **139442** | 503381-0002 | MSI-7300 RF module | 2,500 lb (1,250 kg) | 1 lb (.5 kg) | 9 lb (4 kg) | $1,635.00 |
| **139443** | 503381-0003 | MSI-7300 RF module | 5,000 lb (2,500 kg) | 2 lb (1 kg) | 9 lb (4 kg) | $1,635.00 |
| **139444** | 503381-0004 | MSI-7300 RF module | 10,000 lb (5,000 kg) | 5 lb (2 kg) | 11 lb (5 kg) | $1,740.00 |
| **139445** | 503381-0005 | MSI-7300 RF module | 25,000 lb (12,500 kg) | 10 lb (5 kg) | 19 lb (8.6 kg) | $2,260.00 |
| **139446** | 503381-0006 | MSI-7300 RF module | 50,000 lb (25,000 kg) | 20 lb (10 kg) | 29 lb (13 kg) | $2,880.00 |
| **139447*** | 503381-0007 | MSI-7300 RF module | 100,000 lb (50,000 kg) | 50 lb (20 kg) | 65 lb (30 kg) | $3,720.00 |
| **159168*** | N/A | MSI-7300 RF module includes MSI-8000 | 120,000 lb (60,000 kg) | 50 lb (20 kg) | 57 lb (26 kg) | $4,785.00 |
| **159169*** | N/A | MSI-7300 RF module includes MSI-8000 | 180,000 lb (90,000 kg) | 100 lb (50 kg) | 74 lb (36 kg) | $7,280.00 |
| **159170*** | N/A | MSI-7300 RF module includes MSI-8000 | 260,000 lb (130,000 kg) | 100 lb (50 kg) | 100 lb (45 kg) | $9,740.00 |
| **159171*** | N/A | MSI-7300 RF module includes MSI-8000 | 380,000 lb (190,000 kg) | 200 lb (100 kg) | 169 lb (77 kg) | $11,025.00 |
| **159172**** | N/A | MSI-7300 RF module includes MSI-8000 | 550,000 lb (275,000 kg) | 200 lb (100 kg) | 336 lb (152 kg) | $20,800.00 |

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## Part Number/Price

| Part # | MSI Part # | Description | Capacity | Resolution | Est. Weight | Price |
|---|---|---|---|---|---|---|
| | | | | | | |
| **176806** | N/A | MSI-7300 1,000 lb F/A with Bluetooth® *** | 1,000 lb (500 kg) | 0.5 lb (0.2 kg) | 8 lb (3.6 kg) | Consult |
| **176807** | N/A | MSI-7300 2,500 lb F/A with Bluetooth® *** | 2,500 lb (1,250 kg) | 1 lb (0.5 kg) | 9 lb (4.0 kg) | Consult |
| **176808** | N/A | MSI-7300 5,000 lb F/A with Bluetooth® *** | 5,000 lb (2,500 kg) | 2 lb (1.0 kg) | 9 lb (4.0 kg) | Consult |
| **176809** | N/A | MSI-7300 10,000 lb F/A with Bluetooth® *** | 10,000 lb (5,000 kg) | 5 lb (2.0 kg) | 11 lb (5.0 kg) | Consult |
| **176810** | N/A | MSI-7300 25,000 lb F/A with Bluetooth® *** | 25,000 lb (12,500 kg) | 10 lb (5 kg) | 19 lb (8.6 kg) | Consult |
| **176811** | N/A | MSI-7300 50,000 lb F/A with Bluetooth® *** | 50,000 lb (25,000 kg) | 20 lb (10 kg) | 29 lb (13 kg) | Consult |
| **176812** | N/A | MSI-7300 100,000 lb F/A with Bluetooth® *** | 100,000 lb (50,000 kg) | 50 lb (20 kg) | 65 lb (30 kg) | Consult |
| **176822*** | N/A | MSI-7300 120,000 lb F/A with Bluetooth® *** | 120,000 lb (60,000 kg) | 50 lb (20 kg) | 57 lb (26 kg) | Consult |
| **176823** | N/A | MSI-7300 180,000 lb F/A with Bluetooth® *** | 180,000 lb (90,000 kg) | 100 lb (50 kg) | 74 lb (36 kg) | Consult |
| **176824** | N/A | MSI-7300 260,000 lb F/A with Bluetooth® *** | 260,000 lb (130,000 kg) | 100 lb (50 kg) | 100 lb (45 kg) | Consult |
| **176825** | N/A | MSI-7300 380,000 lb F/A with Bluetooth® *** | 380,000 lb (190,000 kg) | 200 lb (100 kg) | 169 lb (77 kg) | Consult |
| **176826**** | N/A | MSI-7300 550,000 lb F/A with Bluetooth® *** | 550,000 lb (275,000 kg) | 200 lb (100 kg) | 336 lb (152 kg) | Consult |
| | | | | | | |
| **176813** | N/A | MSI-7300 1,000 lb F/A with Wi-Fi | 1,000 lb (500 kg) | 0.5 lb (0.2 kg) | 8 lb (3.6 kg) | $1,660.00 |
| **176814** | N/A | MSI-7300 2,500 lb F/A with Wi-Fi | 2,500 lb (1,250 kg) | 1 lb (0.5 kg) | 9 lb (4.0 kg) | $1,660.00 |
| **176815** | N/A | MSI-7300 5,000 lb F/A with Wi-Fi | 5,000 lb (2,500 kg) | 2 lb (1.0 kg) | 9 lb (4.0 kg) | $1,660.00 |
| **176816** | N/A | MSI-7300 10,000 lb F/A with Wi-Fi | 10,000 lb (5,000 kg) | 5 lb (2.0 kg) | 11 lb (5.0 kg) | $1,775.00 |
| **176817** | N/A | MSI-7300 25,000 lb F/A with Wi-Fi | 25,000 lb (12,500 kg) | 10 lb (5 kg) | 19 lb (8.6 kg) | $2,300.00 |
| **176818** | N/A | MSI-7300 50,000 lb F/A with Wi-Fi | 50,000 lb (25,000 kg) | 20 lb (10 kg) | 29 lb (13 kg) | $3,010.00 |
| **176819** | N/A | MSI-7300 100,000 lb F/A with Wi-Fi | 100,000 lb (50,000 kg) | 50 lb (20 kg) | 65 lb (30 kg) | $3,790.00 |
| **176827** | N/A | MSI-7300 120,000 lb F/A with Wi-Fi | 120,000 lb (60,000 kg) | 50 lb (20 kg) | 57 lb (26 kg) | $4,870.00 |
| **176828** | N/A | MSI-7300 180,000 lb F/A with Wi-Fi | 180,000 lb (90,000 kg) | 100 lb (50 kg) | 74 lb (36 kg) | $7,420.00 |
| **176829** | N/A | MSI-7300 260,000 lb F/A with Wi-Fi | 260,000 lb (130,000 kg) | 100 lb (50 kg) | 100 lb (45 kg) | $9,920.00 |
| **176830** | N/A | MSI-7300 380,000 lb F/A with Wi-Fi | 380,000 lb (190,000 kg) | 200 lb (100 kg) | 169 lb (77 kg) | $11,245.00 |
| **176831** | N/A | MSI-7300 550,000 lb F/A with Wi-Fi | 550,000 lb (275,000 kg) | 200 lb (100 kg) | 336 lb (152 kg) | $20,800.00 |

** 500% Ultimate overload*

*** 440% Ultimate overload*

**** Bluetooth modems only work with certain Android devices. Please contact MSI for potential applications.*

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **151357** | 10541 | Shackle anchor, bolt type 3.25 ton for 500 lb-5,000 lb unit | 3 lb (1.4 kg)/pair | Consult |
| **151355** | 10538 | Shackle anchor, bolt type 6.5 ton for 10,000 lb unit | 6 lb (2.7 kg)/pair | Consult |
| **141992** | 10539 | Shackle anchor, bolt type 17 ton for 25,000 lb unit | 39 lb (17.7 kg)/pair | Consult |
| **151356** | 10540 | Shackle anchor, bolt type 25 ton for 50,000 lb unit | 63 lb (28.6 kg)/pair | Consult |
| **146336** | 23650-0050 | Shackle anchor, bolt type 55 ton for 100,000 lb unit | 103 lb (46.7 kg)/pair | Consult |
| **151359** | N/A | Shackle anchor, bolt type 85 ton for 180,000 lb unit | 206 lb (93 kg)/pair | Consult |
| **151360** | N/A | Shackle anchor, bolt type 120 ton for 260,000 lb unit | 225 lb (102 kg)/pair | Consult |
| **151361** | N/A | Shackle anchor, bolt type 175 ton for 380,000 lb unit | 665 lb (590 kg)/pair | Consult |
| **151358** | N/A | Shackle anchor, bolt type 250 ton for 550,000 lb unit | 1,300 lb (318 kg)/pair | Consult |
| **139381** | 503208-0001 | MSI-8000 RF remote display (requires MSI-7300 equipped with optional RF modem) | 5 lb (2.25 kg) | $1,190.00 |
| **153591** | N/A | MSI-8000HD RF remote display, A/C powered with tilt stand (requires MSI-7300 equipped with optional RF modem) | 5 lb (2.25 kg) | $1,300.00 |
| **165313** | N/A | Heavy duty pelican transport case with precision cut<br>Heavy duty foam for 500 lb-10,000 lb capacity units | 10 lb | $325.00 |
| **145076** | 14317 | Transport crate for 25,000 lb and 50,000 lb capacity unit | 35 lb | $395.00 |
| **145073** | 14311 | Transport crate for 100,000 lb capacity unit | 42 lb | $395.00 |
| **139470** | 503414-0002 | RS-232 serial cable for MSI-7300 | 1 lb (0.45 kg) | $135.00 |
| **178004** | N/A | LaserLight2, 4 in (101 mm) six-digit RF scoreboard (requires MSI-7300 equipped with optional RF modem) | 21 lb (10 kg) | $2,135.00 |
| **178006** | N/A | LaserLight2, 6 in (152 mm) six-digit RF scoreboard (requires MSI-7300 equipped with optional RF modem) | 37 lb (17 kg) | $2,545.00 |
| **149549** | 503486-0001 | Universal 115/ 230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display | 3 lb (1.4 kg) | $135.00 |
| **182223** | N/A | 12V car charger adapter for MSI-8000 | 1 lb | $115.00 |
| **173014** | N/A | Rugged remote control (requires MSI-7300 equipped with optional RF modem) | N/A | $295.00 |
| **150964** | 503489-0001 | RS-232 13 ft (4 m) serial cable for MSI-8000 | 1 lb (0.45 kg) | $170.00 |
| **139438** | N/A | Audible set point | N/A | $380.00 |
| **149550** | 503486-0002 | Battery charger for MSI-8000 EC plug | N/A | $130.00 |




*Optional rugged remote*

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# NEW
# MSI Dyna-Clamp
Tension Meter




## Standard Features

- Dual line LCD display
- Two user programmable function keys
- IP65 anodized aluminum frame
- RS-232 port

## Additional Options

**(Contact MSI for application consultation)**

- Heavy-duty carrying case

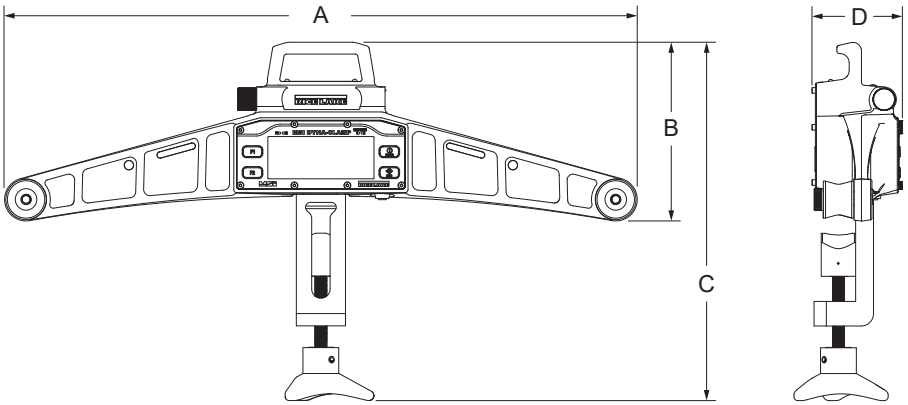
## Part Number/Price

| Part # | Description | Tension | Price |
|---|---|---|---|
| **189581** | MSI Dyna-Clamp Tension Meter | 12,500 lbf (5,670 kgf / 55.60 kN) | $4,395.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **198418** | Heavy-duty carrying case | $550.00 |

| Dimensions | | | |
|---|---|---|---|
| A | 25.70 in (652.80 mm) | C | 13.75 in-15.50 in (349.25 mm-393.70 mm) |
| B | 7.30 in (185.50 mm) | D | 3.70 in (94 mm) |




## Specifications

**Power:**
Battery operated two AA Cell 1.5 V alkaline batteries (can be replaced with rechargeable NiMH cells)

**Max Tension:**
12,500 lbf (5,670 kgf / 55.60 kN)

**Operating Time:**
Alkaline AA Cells 24 hours

**Wire Rope:**
Diameter 3/16 in (5 mm) – 1 in (25 mm)

**Accuracy:**
Rated Accuracy ±3% of capacity

**Units:**
lbf, kgf, kN

**Resolution:**
Standard 2,500 divisions

**Two-Line LCD Display:**
Primary display (bottom) six, 0.7 in (18 mm) numeric digits
Secondary display (top) eight, 0.5 in (13 mm) numeric digits

**Function Keys:**
Two programmable keys (user-defined) – F1, F2 (TEST, UNIT, PRINT, SCROLL, ACTFUN)
Two permanent keys – POWER, ZERO

**Setpoints:**
Two dedicated setpoints for minimum and maximum allowable wire rope tension (LEDs for measurements outside of allowable range)

**Auto-Off Mode:**
Prolongs battery life by turning power OFF after 15, 30, 45 or 60 minutes of no activity (user determined)

**Enclosure:**
IP65 powder-coated aluminum frame

**Calibration:**
Up to eight (8) factory programmed wire rope calibrations

**Operating Temp:**
-4°F to 122°F (-40°C to 50°C)

**Operator Use:**
Outdoor

**Storage:**
Indoor

**Warranty:**
Two-year limited



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# MSI Clamp-On Load Cell

## Specifications

**System Accuracy of Calibrated Capacity:**
3-5%

**Material:**
4340 steel, zinc plated

**IP Rating:**
IP68

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Cable Length:**
20 ft. (6m) integral cable with blunt end termination



## Standard Features

- ETD 150 construction
- Accommodates up to 3/4-inch wire rope size
- IP68
- Larger diameter clamp ons available - call for pricing

## Options

- Custom sizes available on request
- Pair with an SCT transmitter for basic safety functions

## Part Number/Price

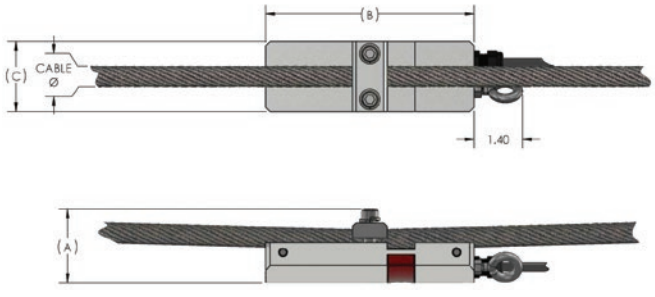
| Part # | Description | Price |
|---|---|---|
| **179080** | Load Cell Assembly Clamp-On for 3/8 to 1/2 in wire rope | $675.00 |
| **179082** | Load Cell Assembly Clamp-On for 9/16 to 3/4 in wire rope | $800.00 |
| **188816** | Kit with SCT-2200 for 3/8 to 1/2 in wire rope | $1,200.00 |
| **188817** | Kit with SCT-2200 for 9/16 to 3/4 in wire rope | $1,330.00 |

*Larger diameter clamp ons available - call for pricing*

## Dimensions

| Cable Range | P/N | A | B | C |
|---|---|---|---|---|
| 3/8 - 1/2 | **179080** | Cable + 1.70 | 6.00 | 2.00 |
| 9/16-3/4 | **179082** | Cable + 1.67 | 6.00 | 2.00 |

**8 mm cable can be used with PN 179080*








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# MSI Load Pin Sensors



Custom Outputs Available

## Standard Features

- Internally gauged load pin
- Idler sheave or dead end pin preferred location
- Minimum 5:1 safety factor
- 17-4 stainless steel construction
- ±1% to 3% accuracy of hoist capacity
- -40°F to 140°F standard operating temperature (other temperature compensated ranges available)

A key component for MSI's integrated overhead weighing solutions is the Load Pin Sensor. Typically designed and manufactured specifically to each integrated solution, the MSI load pin is strictly industrial grade. Each load pin design is precision machined from 17-4 stainless steel for safety, strength and corrosion resistance.

Each strain gauge location is precisely calculated and correctly placed in the optimum concentrated stress area of each installation. This MSI applied engineering process ensures the most efficient and accurate performance for each specific installation.

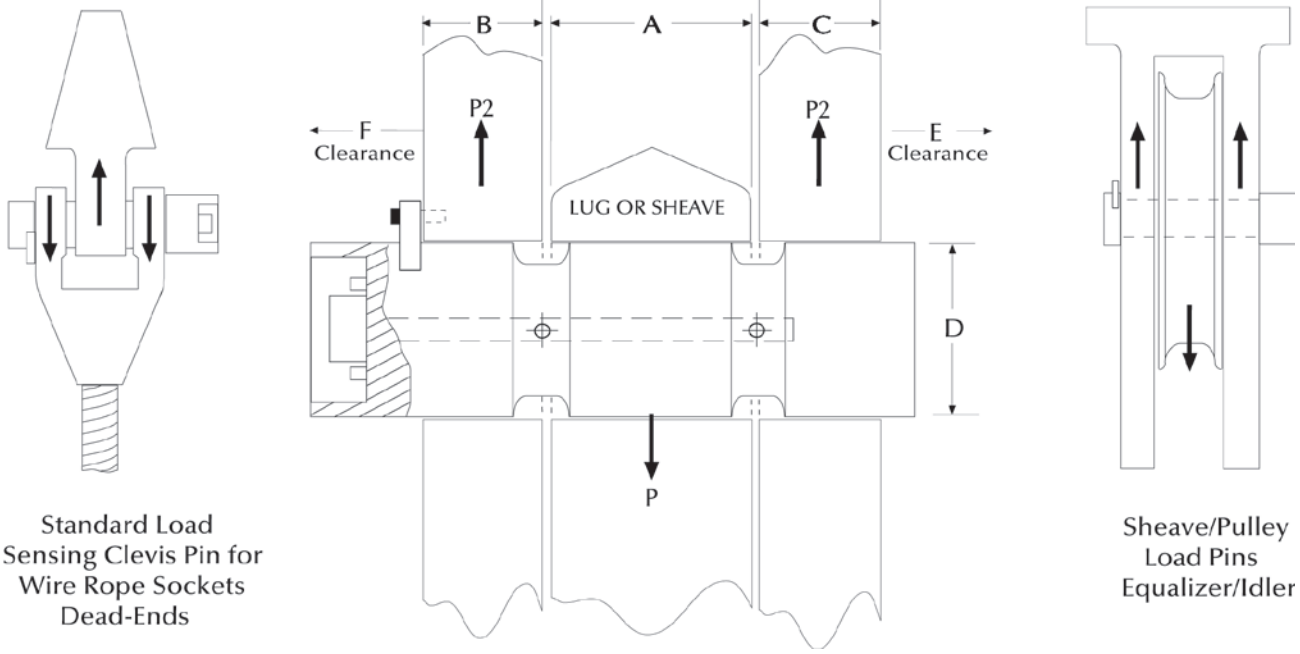
MSI load pin designs apply only internally mounted strain gauges for complete protection from the outside environment.

**To receive a quotation for a load pin sensor to meet your application requirements, complete the load pin questionnaire also on page 381 or online at www.ricelake.com or contact an MSI overhead weighing specialist for further application assistance.**



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# MSI Load Pin Questionnaire




## Load Pin Data

A=Width _____ Inch
B=Width _____ Inch
C=Width _____ Inch
D=Pin Diameter _____ Inch
E=Clearance _____ Inch
F=Clearance _____ Inch
G=Width _____ Inch
Lube Port ❑No ❑Yes _____ # of exits
Hoist Capacity _____ Tons
Parts of Wire Rope _____
Sensor Capacity _____ Tons
Factor of Safety ❑3:1 ❑5:1 ❑7:1 ❑10:1
Application _____
Accuracy Requirement _____
Temperature Requirement _____
Required Output _____
Material Testing Requirement _____
Load Vector Orientation/Alignment ❑← ❑→ ❑↓ ❑↑
Name _____
Company _____
Phone _____

Note: Minimum clearance between "A" and "G" = 0.0625 inch.

## Cable Connections

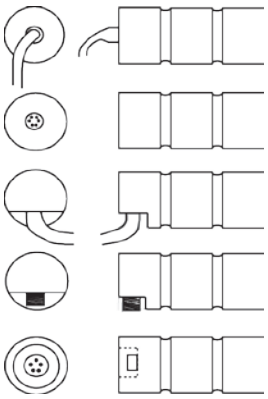
End-Mounted Cable

End-Mounted Connector (standard)

Side-Mounted Cable

Side-Mounted Connector

Recessed Connector



Sensor's Cable Length _____ Feet

Comments _____

_____

RICE LAKE WEIGHING SYSTEMS

230 W. Coleman St. • Rice Lake, WI 54868 • USA
TEL: 800-874-4320 • FAX: 206-244-8470 • **www.ricelake.com/msi**

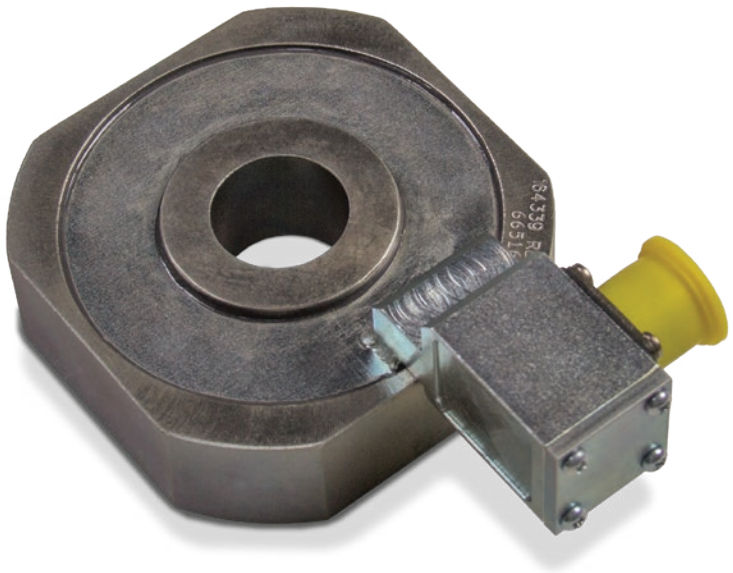
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Specifications subject to change without notice.





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# MSI Shear Web Load Cell



## Standard Features

- Designed to be placed above the trunnion of a load block, this integrated low-profile load cell eliminates headroom loss
- Off-axis compensation

## Specifications

**Accuracy (Static Load):**
0.5 - 1% system accuracy of rated capacity

**Material:**
4340 alloy steel, zinc plated

**IP Rating:**
IP67

**Resistance:**
700 ohms

## Part Number/Price

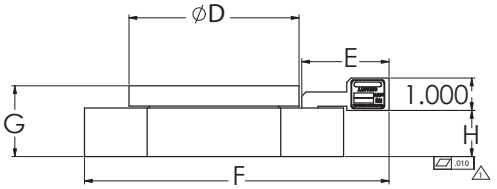
| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **160651** | 10,000 lb/5,000 kg capacity | 5 lb | $1,905.00 |
| **163595** | 20,000 lb/10,000 kg capacity | 10 lb | $2,010.00 |
| **163596** | 40,000 lb/20,000 kg capacity | 20 lb | $2,155.00 |
| **163829** | 60,000 lb/30,000 kg capacity | 30 lb | $2,260.00 |
| **163597** | 80,000 lb/40,000 kg capacity | 34 lb | $2,365.00 |
| **163598** | 100,000 lb/50,000 kg capacity | 38 lb | $2,525.00 |
| **159550** | 120,000 lb/60,000 kg capacity | 60 lb | Consult |
| **163599** | 160,000 lb/80,000 kg capacity | 105 lb | Consult |
| **163600** | 200,000 lb/100,000 kg capacity | 215 lb | Consult |

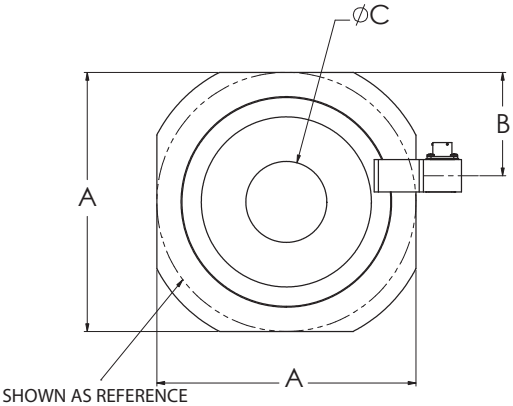
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **165978** | Load cell interface cable to TranSend™, 6.5 ft | $280.00 |
| **165979** | Load cell interface cable to TranSend, 10 ft | $300.00 |
| **165980** | Load cell interface cable to TranSend, 16 ft | $315.00 |
| **165989** | Load cell interface cable to TranSend, 20 ft | $345.00 |
| **165990** | Load cell interface cable to TranSend, 25 ft | $380.00 |
| **165991** | Load cell interface cable to TranSend, 32 ft | $435.00 |
| **134498** | Load cell interface cable to CellScale™, 5 ft | $330.00 |
| **134495** | Load cell interface cable to CellScale, 10 ft | $360.00 |
| **134500** | Load cell interface cable to CellScale, 15 ft | $380.00 |
| **134499** | Load cell interface cable to CellScale, 20 ft | $405.00 |
| **134501** | Load cell interface cable to CellScale, 25 ft | $435.00 |

## Dimensions

| Part # | Capacity | A | B | C (+0.005-0.000) | D | E | F | G | H | Required Hook Shank Diameter (+0.000,-0.005) |
|---|---|---|---|---|---|---|---|---|---|---|
| **160651** | 10,000 lb | 3.500 | 1.350 | 1.005 | 2.450 | 1.880 | 4.905 | 1.500 | 1.000 | 1.000 |
| **163595** | 20,000 lb | 6.000 | 2.500 | 1.505 | 3.500 | 2.443 | 7.405 | 1.750 | 1.250 | 1.500 |
| **163596** | 40,000 lb | 7.500 | 3.150 | 2.005 | 5.000 | 2.580 | 8.905 | 2.000 | 1.375 | 2.000 |
| **163829** | 60,000 lb | 8.000 | 3.190 | 2.505 | 5.250 | 2.695 | 9.405 | 2.188 | 1.500 | 2.500 |
| **163597** | 80,000 lb | 8.500 | 3.650 | 3.505 | 5.750 | 2.680 | 9.905 | 2.313 | 1.500 | 3.500 |
| **163598** | 100,000 lb | 9.125 | 3.873 | 4.005 | 7.000 | 2.382 | 10.530 | 2.668 | 1.875 | 4.000 |
| **159550** | 120,000 lb | 9.125 | 3.873 | 4.005 | 7.000 | 2.382 | 10.530 | 2.813 | 2.000 | 4.000 |
| **163599** | 160,000 lb | 16.000 | 7.030 | 6.005 | 14.500 | 2.955 | 17.405 | 4.625 | 2.500 | 6.000 |
| **163600** | 200,000 lb | 16.000 | 7.030 | 6.005 | 14.500 | 2.955 | 17.405 | 5.125 | 3.000 | 6.000 |






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# MSI Tension Link Load Cell

## Specifications

**Input Resistance:**
1,500 ohm

**Output Resistance:**
2,000 ohm

**Full Scale Output:**
0.8mV/V

**Connector Pin Out:**
A: EX+
B: Sig +
C: Sig –
D: EX-

**Accuracy:**
0.1% sensory accuracy

**Material:**
4340 steel




## Standard Features

- 4340 Steel construction
- Mil Spec connector
- 7:1 Safety factor

## Options

**(Contact MSI for application consultation)**

- Crosby® top and bottom shackles

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **181907** | 2K 7200 Style Load Cell Only | Consult |
| **181908** | 5K 7200 Style Load Cell Only | Consult |
| **181909** | 10K 7200 Style Load Cell Only | Consult |
| **178093** | 25K 7200 Style Load Cell Only | Consult |
| **178094** | 50K 7200 Style Load Cell Only | Consult |
| **181910** | 100K 7200 Style Load Cell Only | Consult |
| **134505** | Mating Cable Assembly, 10 ft | $165.00 |

*Contact factory for higher capacities*



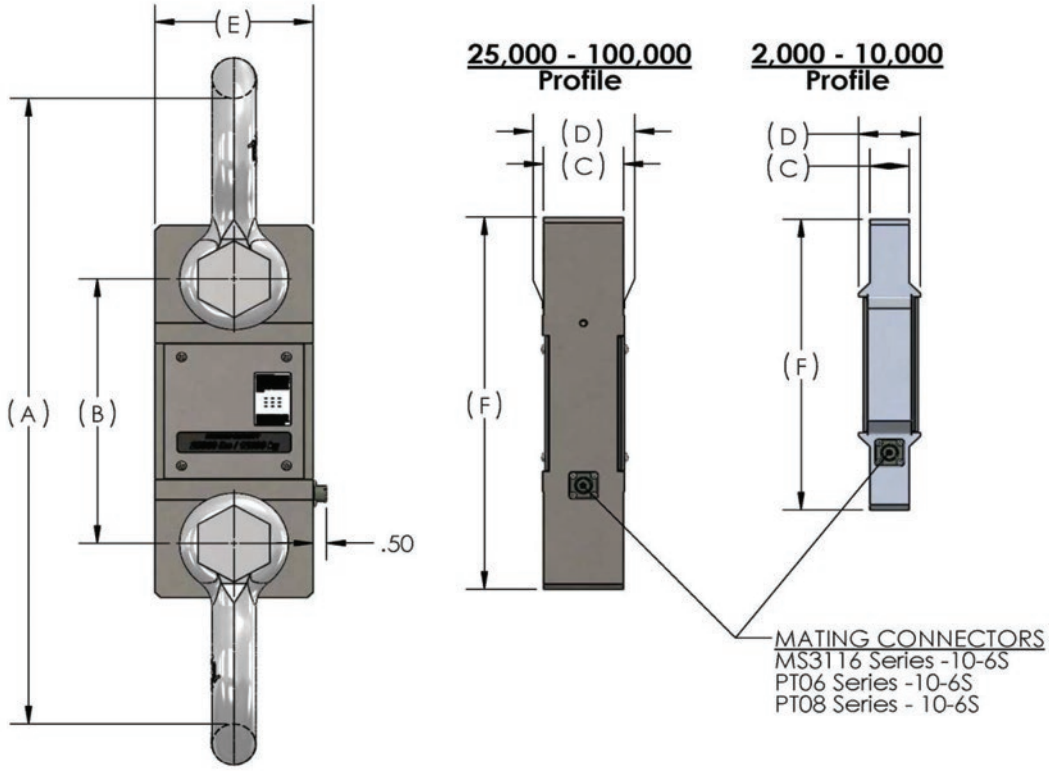


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# MSI Tension Link Load Cell

## Dimensions

| Capacity (lbs) | P/N | Load Cell Material | (A) Headroom Loss | (B) C-C Length | (C) Lug Thk | (D) Body Thk | (E) Body Width | (F) Body Length | Lug Hole | Crosby Shackle | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2,000** | **181907** | Aluminum | 13.50 | 8.00 | 0.99 | 2.13 | 4.50 | 9.75 | 0.78 | 3-1/4 T | 151357 |
| **5,000** | **181908** | Aluminum | 13.50 | 8.00 | 0.99 | 2.13 | 4.50 | 9.75 | 0.78 | 3-1/7 T | 151357 |
| **10,000** | **181909** | Aluminum | 16.13 | 8.50 | 1.35 | 2.13 | 5.37 | 10.75 | 1.05 | 6-1/2 T | 151355 |
| **25,000** | **178093** | Steel | 22.39 | 9.26 | 2.24 | 2.24 | 4.80 | 12.76 | 1.67 | 17 T | 141992 |
| **50,000** | **178094** | Steel | 25.74 | 9.76 | 2.74 | 2.81 | 5.43 | 13.76 | 2.05 | 25 T | 151356 |
| **100,000** | **181910** | Steel | 28.49 | 10.74 | 3.09 | 3.09 | 6.86 | 15.74 | 2.30 | 55 T | 146336 |

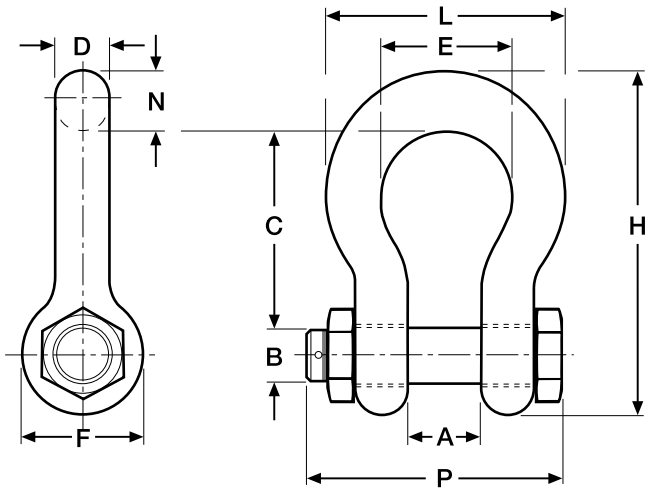





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## Part Number/Price

| Part # | MSI Part # | W.I.I. Tons | Size | A | B | C | D | E | F | H | L | N | P | Weight | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **151357** | 10541 | 3 1/4 | 0.63 | 1.06 | .75 | 2.38 | 0.63 | 1.69 | 1.56 | 4.22 | 2.94 | 0.69 | N/A | 1.58 | Consult |
| **151355** | 10538 | 6 1/2 | 0.88 | 1.44 | 1.00 | 3.31 | 0.88 | 2.28 | 2.13 | 5.75 | 4.03 | 0.97 | 5.00 | 3.95 | Consult |
| **141992** | 10539 | 17 | 1.50 | 2.38 | 1.63 | 5.75 | 1.50 | 3.88 | 3.63 | 9.88 | 6.88 | 1.62 | 8.25 | 19.50 | Consult |
| **151356** | 10540 | 25 | 1.75 | 2.88 | 2.00 | 7.00 | 1.75 | 5.00 | 4.32 | 11.88 | 8.50 | 2.12 | 9.59 | 31.30 | Consult |
| **146334** | 23650-0030 | 30 | 1.50 | 2.38 | 1.63 | 5.75 | 1.50 | 3.88 | 3.63 | 9.88 | 6.88 | 1.62 | 8.25 | 20.80 | Consult |
| **146335** | 23650-0040 | 40 | 1.75 | 2.88 | 2.00 | 7.00 | 1.75 | 5.00 | 4.32 | 11.88 | 8.50 | 2.12 | 9.59 | 33.91 | Consult |
| **146336** | 23650-0050 | 55 | 2.00 | 3.25 | 2.25 | 7.75 | 2.00 | 5.75 | 5.00 | 13.38 | 9.75 | 2.00 | 11.00 | 51.75 | Consult |
| **151359** | N/A | 85 | 2.5 | 4.12 | 2.75 | 10.50 | 2.72 | 7.25 | 5.69 | 17.84 | 12.87 | 3.12 | 13.58 | 96.00 | Consult |
| **151360** | 23650-0110 | 120 | 3.00 | 5.00 | 3.25 | 13.00 | 3.00 | 7.88 | 6.50 | 21.50 | 14.50 | 3.63 | 16.50 | 178.00 | Consult |
| **83455** | N/A | 120 | 3 | 5.00 | 3.25 | 13.00 | 3.11 | 7.88 | 6.50 | 21.50 | 14.36 | 3.63 | 15.13 | 178.00 | Consult |
| **151361** | 23650-0175 | 175 | 4.00 | 5.50 | 4.25 | 14.50 | 4.00 | 10.00 | 9.00 | 25.69 | 18.38 | 4.56 | 19.75 | 338.00 | Consult |
| **151358** | | 250 | 4 | 8.50 | 5.00 | 20.00 | 4.50 | 13.00 | 12.00 | 35.00 | 24.50 | 6.50 | 22.68 | 600.00 | Consult |
| **Oversized Shackles** | | | | | | | | | | | | | | | |
| **148497** | 501386-0100 | 40 | 1.75 | 2.88 | 2.00 | 10.00 | 2.25 | 6.00 | 4.32 | 15.35 | 10.50 | 2.25 | 9.00 | 45.00 | Consult |
| **148393** | 501082-0100 | 40 | 2.25 | 2.88 | 2.00 | 12.50 | 2.25 | 8.00 | 4.32 | 17.85 | 12.50 | 2.25 | 10.00 | 90.00 | Consult |
| **148394** | 501083-0100 | 50 | 2.00 | 3.25 | 2.25 | 12.25 | 2.50 | 8.00 | 5.00 | 18.50 | 13.00 | 2.50 | 11.00 | 72.00 | Consult |
| **Shims** | | | | | | | | | | | | | | | |
| **146534** | 30013-0112 | (For use with 50,000 ton/70,000 ton systems) | | | | | | | | | | | | | Consult |








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## Specifications

**Enclosure:**
NEMA Type 4, IP65

**Weight:**
0.98 lb (445 g)

**Keypad:**
On/Off, Zero (100%), Tare, Print, and two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

**Display:**
Six-digit 1.0 in (26.4 mm) LCD

**Units Displayed:**
Pounds, kilograms, tons, metric tons, kilonewtons

**Annunciators:**
Stable, COZ, low battery, peak, net, kg, kN, lb, M, ton, setpoint, function LEDs

**Power:**
Integral lithium ion battery
Universal 115/230 VAC, 50/60 Hz battery charger (NA plug included)

**Operating Time:**
Up to 24 hours of continuous use (15 minute auto-shutoff with non-use)

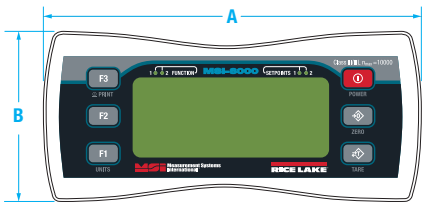
**Operating Temperature:**
-4°F to 140°F (-20°C to 60°C)

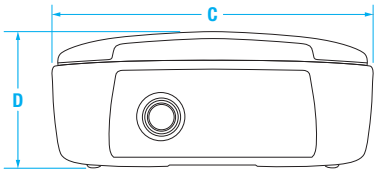
**RF Radio Link:**
2.4 GHz 802.15.4
Communicates with RF 3460, 4260, 7300, 7000 & 7001

**RF Effective Range:**
Typically 100 or more feet (33 m)

**Connector:**
Four-pin Turck connector for charging and RS-232 communication

**Warranty:**
One-year limited warranty







## Standard Features

- Handheld RF remote display with six-digit 1.0 in (26.4 mm) LCD screen
- Membrane keypad for remote control functionality
- User- definable function keys for added versatility
- Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Communicates with RF MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7300 Dyna-Link 2, MSI-7000 and MSI-7001 TranSend™

## Part Number/Price

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **139381** | 503208-0001 | MSI-8000 RF remote display (requires ScaleCore™ equipped MSI-7300, MSI-4260, MSI-3460 and TranSend receivers) | 5 lb | $1,190.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **149549** | 503486-0001 | Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 RF remote display | 3 lb | $135.00 |
| **149550** | 503486-0002 | Universal 115/230 VAC 50/60 Hz (EC plug standard) battery charger for MSI 8000 RF remote display | 1 lb | $130.00 |
| **150964** | 503489-0001 | DB9 female serial interface cable for MSI-8000 RF remote display | 1 lb | $170.00 |
| **151095** | 503506-0001 | Audible alarm | — | $270.00 |
| **182223** | | 12V car charger adapter for MSI-8000 | 1 lb | $115.00 |

| Dimensions | | | |
|---|---|---|---|
| A | 8.00 in (203 mm) | C | 3.85 in (98 mm) |
| B | 3.85 in (98 mm) | D | 1.37 in (35 mm) |






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# MSI-8000HD

Indicator/Remote Display




*Shown with tilt stand.*

## Standard Features

- Indicator or RF remote display with six-digit 1.0 in (26.4 mm) LCD screen
- IP68 milled aluminum enclosure
- Membrane keypad for remote-control functionality
- User-definable function keys for added versatility
- Compatible with all ScaleCore™-based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001 TranSend™
- Swivel tilt stand
- NTEP certified configuration

## Approvals

## Options

- Up to 8 configurable relay outputs
- Wi-Fi communications
- Bluetooth® communications
- 802.15.4 Serial RF
- FHSS
- Wired Ethernet

| Dimensions | | | |
|---|---|---|---|
| A | 12.82 in (326 mm) | B | 11.05 in (281 mm) |




## Specifications

**Enclosure:**
NEMA Type 4, IP68 milled anodized aluminum with O-ring gaskets

**Keypad:**
On/Off, Zero (100%), Tare, Print, and Two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

**Display:**
Six-digit 1.0 in (26.4 mm) LCD

**Units Displayed:**
Pounds, kilograms, tons, metric tons, kilonewtons

**Annunciators:**
Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs
Channels: 1, 2, 3, 4, TTL

**Power:**
90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC
Optional battery power module available

**Operating Temperature:**
-4°F to 140°F (-20°C to 60°C)

**RF Remote Channels:**
Up to four remote sensors, monitored individually, in pairs or sum all (non-A/D version only)

**Service Counters:**
A/D version only

**A/D Inputs:**
Two independent or summing load cell inputs

**Excitation:**
4.8V current limited and over-voltage protected

**Filtering:**
Off, Low, Hi-1, Hi-2

**RF Radio Link:**
2.4 GHz 802.15.4
Compatible with all ScaleCore™-based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001

**RF Effective Range:**
Typically 100 or more feet (33m)

**Data I/O:**
Dual RS-232 comm ports

**Optional Communications:**
Wi-Fi
Bluetooth®
Serial RF (Single Sequence or FHSS)

**Warranty:**
One-year limited

**Approvals:**
NTEP COC#15-110 (-10°C to 40°C)



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **153591** | MSI 8000HD ScaleCore RF/Remote Display/85-265 VAC | 5 lb (2.5 kg) | $1,300.00 |
| **154853** | MSI 8000HD ScaleCore RF/Remote Display/Internal Battery | 5 lb (2.5 kg) | $1,405.00 |
| **160476** | MSI 8000HD ScaleCore RF/Remote Display/7-36 VDC | 5 lb (2.5 kg) | $1,255.00 |
| **159377** | MSI 8000HD ScaleCore RF/Remote Display/18-72 VDC | 5 lb (2.5 kg) | $1,285.00 |
| **159376** | MSI 8000HD ScaleCore RF/Remote Display/9-36 VDC | 5 lb (2.5 kg) | $1,285.00 |
| **158427** | MSI 8000HD Meter/2 A/D Inputs/85-265 VAC (non RF) | 5 lb (2.5 kg) | $1,580.00 |
| **158428** | MSI 8000HD Meter/2 A/D Inputs/Internal Battery (non RF) | 5 lb (2.5 kg) | $1,685.00 |
| **160478** | MSI 8000HD Meter/2 A/D Inputs/7-36 VDC (non RF) | 5 lb (2.5 kg) | $1,405.00 |
| **159381** | MSI 8000HD Meter/2 A/D Inputs/18-72 VDC (non RF) | 5 lb (2.5 kg) | $1,440.00 |
| **159380** | MSI 8000HD Meter/2 A/D Inputs/9-36 VDC (non RF) | 5 lb (2.5 kg) | $1,440.00 |
| **158425** | MSI-8000HD RF Meter/2 A/D Inputs/85-265 VAC | 5 lb (2.5 kg) | $1,595.00 |
| **158426** | MSI-8000HD RF Meter/2 A/D Inputs/Internal Battery | 5 lb (2.5 kg) | $1,735.00 |
| **160477** | MSI 8000HD RF Meter/2 A/D Inputs/7-36 VDC | 5 lb (2.5 kg) | $1,595.00 |
| **159379** | MSI 8000HD RF Meter/2 A/D Inputs/18-72 VDC | 5 lb (2.5 kg) | $1,605.00 |
| **159378** | MSI 8000HD RF Meter/2 A/D Inputs/9-36VDC | 5 lb (2.5 kg) | $1,605.00 |
| **176957 *** | MSI 8000HD BT Meter/85-265 VAC | 5 lb (2.5 kg) | Consult |
| **176958** | MSI 8000HD Wi-Fi Meter/85/265 VAC | 5 lb (2.5 kg) | $1,330.00 |
| **176959 *** | MSI 8000HD BT Meter/Internal Battery | 5 lb (2.5 kg) | Consult |
| **176960** | MSI 8000HD Wi-Fi Meter/Internal Battery | 5 lb (2.5 kg) | $1,440.00 |
| **176962 *** | MSI 8000HD BT Meter/7-36 VDC | 5 lb (2.5 kg) | Consult |
| **176964** | MSI 8000HD Wi-Fi Meter/7-36 VDC | 5 lb (2.5 kg) | $1,280.00 |
| **176965 *** | MSI 8000HD BT Meter/9-36 VDC | 5 lb (2.5 kg) | Consult |
| **176966** | MSI 8000HD Wi-Fi Meter/9-36 VDC | 5 lb (2.5 kg) | $1,315.00 |
| **176967 *** | MSI 8000HD BT Meter/18-72 VDC | 5 lb (2.5 kg) | Consult |
| **176968** | MSI 8000HD Wi-Fi Meter/18-72 VDC | 5 lb (2.5 kg) | $1,315.00 |

** Bluetooth modems only work with certain Android devices. Please contact MSI for potential applications.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **155173** | MSI-8000HD spare tilt stand option kit | $75.00 |
| **155193** | MSI-8000HD Ethernet TCP/IP option kit wired | $370.00 |
| **162178** | Antenna extension kit, 5 ft | $415.00 |
| **148624** | MSI-8000HD serial RS-232 cable | $115.00 |
| **158779** | MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5A or 100 VDC 0.4A | $315.00 |
| **158780** | MSI-8000HD two each solid state relay option kit, 60 Vpk 2.7A | $315.00 |
| **158781** | MSI-8000HD two each solid state relay option kit, 200 Vpk 0.9A | $315.00 |
| **149549** | Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device | $135.00 |
| **149550** | Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device | $130.00 |
| **171203** | Audible alarm kit | $315.00 |
| **176963** | Serial print cable | $135.00 |
| **Relays** | | |
| **172490** | Expanded Relay Kit, Four-Channel, 12A 5V, Latching Relays | $745.00 |
| **172492** | Expanded Relay Kit, Four-Channel, 12A 5V, Momentary Relays | $725.00 |
| **Consult** | Expanded Relay Kit, Four-Channel, 0.9A 200Vpk, AC/DC Solid State Relays | $750.00 |
| **172495** | Expanded Relay Kit, Eight-Channel, 12A 5V, Momentary Relays | $750.00 |
| **172500** | Expanded Relays Option Kit, Four-Channel, 3A, 60Vpk Solid State Form C Relays | $1,025.00 |
| **172501** | Expanded Relays Option Kit, Eight-Channel, 3A 60Vpk, Solid State Form C Relays | $1,365.00 |
| **172502** | Expanded Relays Option Kit, Eight-Channel, 0.9A 200Vpk, Solid State Form C Relays | $1,195.00 |
| **171676** | Expanded Relays Option Kit, Eight-Channel, 12A 5V, Latching Relays | $805.00 |





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# MSI-8004HD

Indicator/RF LED Remote Display




## Standard Features

- IP65 rugged milled aluminum enclosure
- Backlit membrane keypad for user functioning and controls
- Tilt bracket included
- NTEP certified configuration

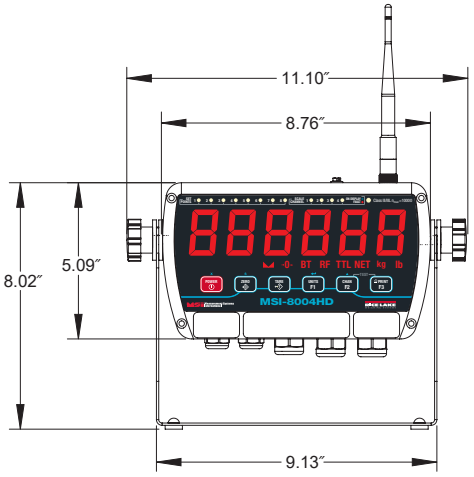
## Options

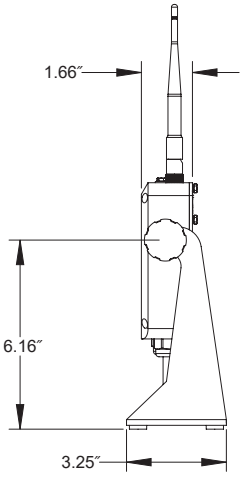
- Expanded relay outputs
- Battery pack for mobile operation
- Second radio module for additional network connectivity

## Approvals








## Specifications

**Display:**
Six-digit, 1.5 in (38 mm) LED display with red/green coloring

**Enclosure:**
NEMA Type 4, IP65 milled anodized aluminum

**Keypad:**
On/Off, Zero, Tare, Print and two user-defined keys

**Functions:**
Peak hold, high resolution, total, view total, net/gross, units switching

**Units:**
Pounds, kilograms, tons, metric tons, kilonewtons

**Annunciators:**
Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs

**Channels:**
1, 2, 3, 4, TTL

**Power:**
90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC

**Temperature:**
-4° F to 140° F (-20° C to 60° C)

**RF Remote Channels:**
Up to 4 remote sensors monitored individually, in pairs or sum all (non-A/D version only) (when used with TranSend)

**Service Counters:**
A/D version only

**A/D Inputs:**
Four independent or summing load cell inputs

**Excitation:**
4.8 V current limited and over-voltage protected

**Relays:**
Two 5V coil, 250VAC, 5A relays

**Filtering:**
Off, Low, Hi-1, Hi-2

**RF Radio Link:**
2.4 GHz 802.15.4, optional second channel for Serial RF, 802.11 Wi-Fi, cellular connectivity or Bluetooth®

**RF Effective Range:**
Typically 300 ft (91.44 m) line of sight

**Data I/O:**
Two RS-232 hard wired communication ports

**Approvals:**
NTEP COC #17-036 (-5° C to 40° C)
Measurement Canada

**Warranty:**
One-year limited warranty



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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Indicator** | | |
| **178265** | MSI-8004HD Indicator, 4CH AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC | $1,830.00 |
| **178269** | MSI-8004HD Indicator, 4CH DC 8-32 V, Red/Green Best for external 12 V SLA Batteries | $1,865.00 |
| **178271** | MSI-8004HD Indicator, 4CH DC 9-36 V Iso, Red/Green Do not use on 12 V Vehicle Systems | $1,945.00 |
| **178274** | MSI-8004HD Indicator, 4CH DC 18-75 V Iso, Red/Green | Consult |
| **178278** | MSI-8004HD Indicator, 4CH DC 5 V, Red/Green For use with external 15 W, 5 V Power Supplies | Consult |
| **183481** | MSI-8004HD Indicator, 4CH 5 V Red/Green with external rechargeable battery | $1,840.00 |
| **196904** | MSI-8004HD Indicator, 4CH AC, Red/Green Instant Power-On, 85-264VAC | $2,025.00 |
| **Remote Display** | | |
| **178281** | MSI-8004HD Display, AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC | $1,785.00 |
| **178283** | MSI-8004HD Display, DC, 8-32 V, Red/Green Best for external 12 V SLA Batter | $1,745.00 |
| **178285** | MSI-8004HD Display, DC, 9-36 V Iso, Red/Green Do not use on 12 V Vehicle Systems | $1,820.00 |
| **183479** | MSI-8004HD Display, 4CH 5 V Red/Green with external rechargeable battery | $1,580.00 |

## Options

| Part # | Description | Price |
|---|---|---|
| **148624** | Serial Cable, RS-232 9000 Serial Cable, DCE | $115.00 |
| **139309** | Antenna Kit, Long Range Omni-directional, 9 dBi with 3 m Coax<br>Intended for omni-directional mast mounting (up to 2" Ø). Beam-width. Must be mounted vertically. | $435.00 |
| **139310** | Antenna Kit, Corner Reflector, 9 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" Ø). Beam-width: 75° Elevation, 65° Azimuth | $430.00 |
| **139311** | Antenna Kit, Corner Reflector, 12 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" Ø). Beam-width: 50° Elevation, 36° Azimuth | $460.00 |
| **139312** | Antenna Kit, YAGI, 15 dBi with 3 m coax highly directional wall or mast mounting (up to 2" Ø). Beam-width: 30° Elevation, 34° Azimuth | $355.00 |
| **139313** | Antenna Kit, Vehicle Mount, 5 dBi with 5 m coax omni-directional. Mounts in 3/4" Hole. | $130.00 |
| **162178** | Antenna extension kit, 5 ft | $415.00 |
| **197013** | Antenna extension kit, 20 ft | $445.00 |
| **155173** | Option kit, tilt stand | $75.00 |
| **171203** | Audible alarm Not compatible with battery versions | $315.00 |
| **22436** | Cable, Comm DB9F 9 Pin Fem One end stripped and tinned on other end 6' Pin 2 (Brown) Pin 3 (Red) Pin 5 (Yellow) For use with MSI-8004HD serial ports to connect to: Scoreboard displays, printers, computers & other equipment that supports RS-232 | $65.00 |
| **183437** | Battery, 5V Li-ion battery with USB power ports. Output 5 V/3.0A per port (6.0 A max)Rate, 2A per port (4A if both ports are used) | $200.00 |
| **184132 *** | 8004 option kit, Bluetooth® with SMA antenna | Consult |
| **184131** | 8004 option kit, WiFi with SMA antenna | $170.00 |
| **187424** | 8004 option kit, 2nd Xbee with TNC antenna | $180.00 |
| **182224** | Power Adapter, 12 VDC 5 VDC Dual USB Car Charger plus 3 ft USB Cable | $50.00 |
| **Relays** | | |
| **172500** | Expanded Relays Option Kit, four-channel, 3A, 60VPK SSR form C | $1,025.00 |
| **172501** | Expanded Relays Option Kit, eight-channel, 3A 60VPK, SSR form C | $1,365.00 |
| **Consult** | Expanded Relays Option Kit, four-channel, 0.9A 200VPK, AC/DC SSR Form C | $750.00 |
| **172502** | Expanded Relays Option Kit, eight-channel, 0.9A 200VPK, SSR form C | $1,195.00 |
| **172492** | Expanded Relays Option Kit, four-channel, 12A 5 V, momentary | $725.00 |
| **172495** | Expanded Relays Option Kit, eight-channel, 12A 5 V, momentary | $750.00 |
| **172490** | Expanded Relays Option Kit, four-channel, 12A 5 V, latching relays | $745.00 |
| **171676** | Expanded Relays Option Kit, eight-channel, 12A 5 V, latching relays | $805.00 |

** ScaleConnect app only works with certain Android devices. Please contact MSI for potential applications.*






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# MSI-9750A CellScale™ RF Portable Indicator




## Standard Features

- Compatible with MSI-6260CS, MSI-9300 and MSI-9000 CellScale
- 1.4 in x 2.6 in (36 mm x 67 mm), eight line, 21 character LCD display
- 2.4 GHz spread spectrum transceiver
- Power supply: six cell NiMH battery pack
- Charger board: SMD NiMH fast charge (charges battery pack in two hours or less)
- RS-232 data I/O
- Real-time clock
- NEMA Type 3, IP55 enclosure
- AC adapter/battery charger; 90-264 VAC, 47-63 Hz (NA plug standard)

## Approvals

NTEP

## Part Number/Price

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **138486** | 502541-0001 | MSI-9750 RF portable indicator | 2.2 lb (1 kg) | $1,980.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **Accessories** | | | | |
| **143709** | 12431 | Replacement NiMH battery pack | 1 lb (0.45 kg) | $130.00 |
| **139484** | 503441-0001 | AC adaptor/battery charger input, 90–264 VAC, 47–63 Hz (NA plug standard) | 1 lb (0.45 kg) | $110.00 |
| **143912** | 12674 | Battery charger, 12 VDC auto plug | 1 lb (0.45 kg) | Consult |
| **139485** | 503441-0002 | AC adaptor/battery charger, EU plug | 1 lb (0.45 kg) | Consult |

## Specifications

**Enclosure:**
NEMA Type 3, IP54 ,Rugged Molded PVC, O-ring gasketed

**Dimensions:**
4.6in x 10.3in x 2.4 in (117 x 262 x 60.5 mm)

**Weight:**
2.2 lb (1 kg)

**Keypad:**
24 keys–11 key alphanumeric, 7 control keys and 6 user programmable keys.
Password protected with lock feature

**Display:**
1.4in x 2.6in (36 x 67 mm) backlight LCD capable of 8 lines, 21 characters each. Backlight selectable On, Off or Automatic. Red/Green LED battery charging indicator

**Power:**
Rechargeable 6 cell NiMH battery pack (AC Adapter/ Battery Charger Input Included)

**Operating Time:**
Up to 8 hours typical use. Selectable automatic shut off for battery conservation

**Operating Temperature:**
-4° to 158°F (-20° to 70°C)

**Radio Link:**
FHSS at 2.4 GHz (Up to 64 network selections)

**Radio Effective Range:**
Typically 500 ft (150 m) indoors, 1000 ft (300 m) outdoors with standard antennas

**RFI/EMI Shielding:**
Exceeds NIST HB44 and CE Standards

**Connectors:**
Charger Input: Standard 2.5 mm coaxial; RS-232: Standard DB-9 male

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 05-077



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# MSI-9850 CellScale™ RF Digital Indicator

## Specifications

**Enclosure:**
NEMA Type 4, IP65 milled anodized aluminum with O-ring gaskets
NEMA Type 6, IP67 with optional long-range antenna

**Weight:**
5.0 lb (2.8 kg)

**Keypad:**
33 keys–12 key alphanumeric, four cursor keys, seven control keys and 10 user programmable keys. Password protected with lock feature

**Weight Display:**
Six-digit, 1.2 in (30 mm) high numeric weight LED, four alphanumeric 0.5 in (13 mm) high data LED, six LED function select annunciators, 10 LED annunciators, Low battery LED indicator

**Information Display:**
1.4 in x 2.6 in (36 x 67 mm) backlit LCD. Capable of 8 lines of 21 characters each backlight selectable On, Off or Automatic

**Power Input:**
Internal AC/DC power supply: 85-265 VAC, 47-440 Hz/130-300 VDC
Also included: An independent 7-25 VDC power input (requires optional power/switch interface cable) 8 ft/2.4 m power cable included (NA plug standard)

**Operating Temperature:**
4°F to 158°F (-20°C to 70°C)

**Radio Link:**
FHSS at 2.4 GHz (up to 64 network selections)

**Radio Link Effective Range:**
Typically 500 ft (150 m) indoor, 1000 ft (300 m) outdoor with standard antennas.
See optional antennas for longer range.

**Standard Antenna:**
1/2 wave 2 dBi, articulated

**RFI/EMI Shielding:**
Exceeds NIST HB44 and CE Standards

**Connectors:**
RS-232, Turck compatible Pico connector

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 05-077




*Contact MSI for application consultation*

## Standard Features

- Standard Features
- Compatible with MSI-6260CS, MSI-9300 and MSI-9000 CellScale
- Six-digit 1.2 in (30 mm) LED display
- 1.4 in x 2.6 in (36 mm x 67 mm) information LCD display
- 2.4 GHz spread spectrum transceiver
- RS-232 data I/O with real-time clock
- NEMA Type 4, IP65 enclosure
- Power input 85-265 VAC, 47-440 Hz / 130-300 VDC; 8 ft/2.4 m power cable included (NA plug standard)

**Approvals**

## Options

- NTEP Certified
- Long range antenna, omni-directional with 9dBi
- Wi-Fi Ethernet connectivity (802.11b)
- Hard wired Ethernet output connection
- Single and dual 4-20 mA output, provides programmable current output
- Bar code scanner
- Setpoint relays, provides up to eight setpoint relay outputs for direct interfacing to external devices
- External audible alarm (activates with setpoint control)
- Universal mounting bracket for either desktop or wall/bulkhead mount
- Optional isolated and non-isolated DC power supplies





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# MSI-9850 CellScale™ RF Digital Indicator

## Part Number/Price

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **159625** | N/A | MSI-9850 RF remote indicator AC/DC | 10 lb (4.5 kg) | $2,640.00 |
| **162035** | N/A | MSI-9850 RF remote indicator AC/DC International Power | 10 lb (4.5 kg) | $2,640.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Price |
|---|---|---|---|
| **141558** | 10082 | External setpoint relay output cable, 6.5 ft/2 m | $110.00 |
| **138358** | 502513-0001 | RS-232, 13 ft/4 m cable with DB-9 connector | $110.00 |
| **176074** | | Cable, RS-232, serial output, with DB-9 connector, null modem | $135.00 |
| **138625** | 502598-0001 | RF remote controller (control for On/Off, Zero, Tare and other functions. 10 m operating range) | $325.00 |
| **143466** | 12147 | Long-range antenna, omni-directional with 9 dBi gain, includes 10 ft/3 m coaxial cable | $445.00 |
| **197013** | | Antenna extension kit, 20 ft | $445.00 |
| **Consult** | Consult | 9 dBi or 14 dBi gain corner reflector antenna | Consult |
| **Consult** | Consult | 5 dBi gain vehicle/cab mount whip antenna, includes 17 ft/5.2 m coaxial cable | Consult |
| **139032** | 502835-0001 | Hard-wired Ethernet output connection, includes connector | $375.00 |
| **139033** | 502835-0002 | Wi-Fi Ethernet connectivity (802.11b - contact factory for assistance) | $375.00 |
| **138615** | Consult | Single 4-20 mA output. Provides programmable current output | $375.00 |
| **138616** | Consult | Dual 4-20 mA output | Consult |
| **Consult** | Consult | Bar code scanner (several options available) | Consult |
| **Consult** | Consult | Internal setpoint relays, provides up to eight setpoint relay outputs for direct interfacing to external devices | Consult |
| **Consult** | Consult | Control kit, provides remote I/O relay board for interfacing to setpoints (note: I/O modules not included) | Consult |
| **138628** | 502599-0001 | External audible alarm (activates with setpoint control) | $400.00 |
| **138341** | 502488-0001 | Universal mounting bracket for either desktop or wall / bulkhead mount (specify type) | $140.00 |
| **138351** | 502499-0001 | Vehicle or wall mount bracket stand | $140.00 |
| **138631** | 502600-0003 | Non-isolated 7-25 VDC power input, includes 13 ft/4 m non-terminated DC input cable | $140.00 |
| **138632** | 502600-0004 | Isolated 10-36 VDC power input, includes 13 ft/4 m non-terminated DC input cable | $140.00 |
| **138633** | 502600-0005 | Isolated 20-72 VDC power input, includes 13 ft/4 m non-terminated DC input cable | $220.00 |



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# MSI Scoreboards Wireless RF

Featuring LaserLight2 Remote Displays

## Specifications

**Enclosure:**
NEMA Type 4, IP66

**Display:**
Six-digit long-life LED, 4 in or 6 in

**Power:**
AC/DC power supply 85-265 VAC, 47-440 Hz/130-300 VDC

**Radio Link:**
Direct sequence spread spectrum at 2.4 GHz

**Radio Link Effective Range:**
Typically 300 ft (150 m) with standard antennas (see optional antennas for longer range)

**Standard Antenna:**
1/2 wave 2 dBi, articulated

**Warranty:**
One-year limited

**Echo Data Output:**
RS-232




## Standard Features

- Tilt mounting bracket
- Integrated data repeater
- AC/DC power supply: 85-265 VAC, 47-440 Hz/130-300 VDC
- RF telemetry via 2.4 GHz modem (certain part numbers only)
- Six high-intensity red digits (double-row discrete LED)
- Auto Learn mode of communication protocols
- Hold displayed weight (demand input)
- Software selectable standstill mode for no updates while in motion
- Durable weather tight IP66 enclosure
- Adjustable daylight/night intensity
- Non-glare contrast filtered lens
- Mirror (reverse image) feature
- RS-232, 20 mA and RS-485 communications
- Scale Core RF (certain models only)
- Auto sensing 115/230 VAC power supply
- PEMs for VESA flat-wall mount or side-mounting flange available
- Polyethylene breather vent inhibits internal moisture buildup

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **178004** | LaserLight2, 4 in with ScaleCore RF and tilt bracket | | $2,135.00 |
| **178006** | LaserLight2, 6 in with ScaleCore RF and tilt bracket | | $2,545.00 |
| **178341** | Laserlight2, 4 in with tilt bracket | | $2,030.00 |
| **178342** | Laserlight2, 6 in with tilt bracket | | $2,420.00 |

## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **139309** | Long range antenna, 300 m-500 m omni-directional with 9 dBi gain, includes 10 ft/3 m coaxial cable | 1 lb | $435.00 |
| **139310** | 9 dBi gain corner reflector antenna | 1 lb | $430.00 |
| **139311** | 12 dBi gain corner reflector antenna | 1 lb | $460.00 |
| **139313** | 5 dBi gain vehicle/cab mount whip antenna | 1 lb | $130.00 |
| **162178** | Antenna extension kit, 5 ft | | $415.00 |
| **197013** | Antenna extension kit, 20 ft | | $445.00 |



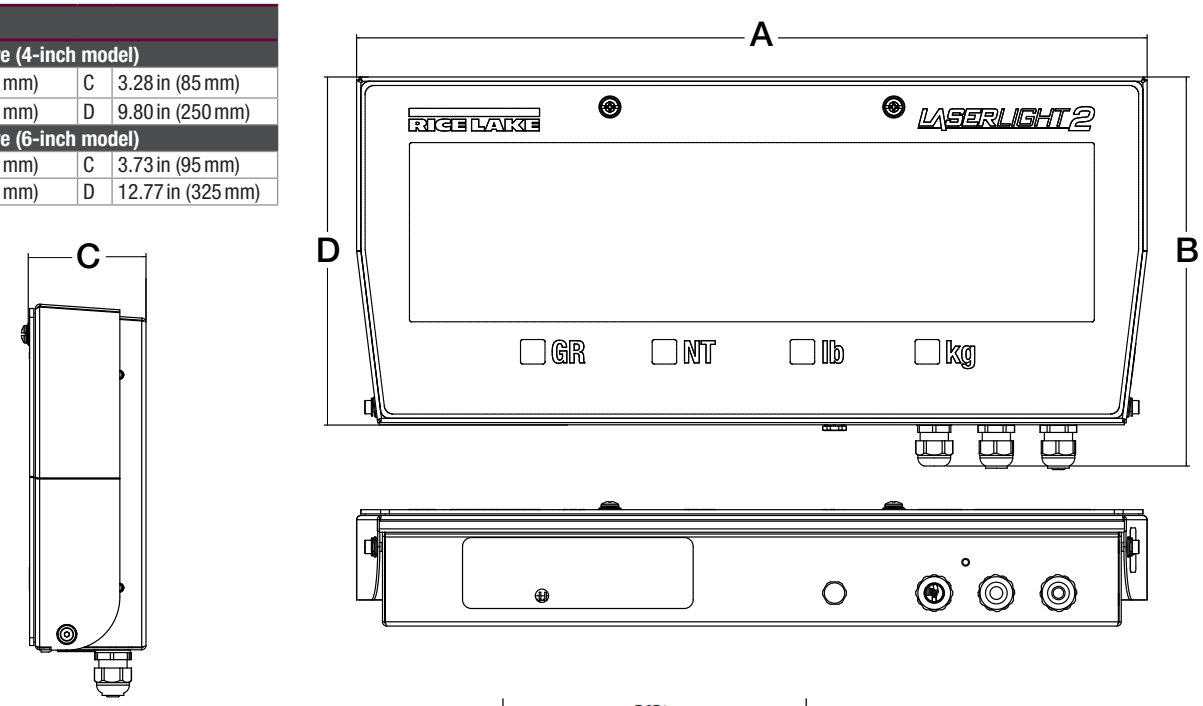


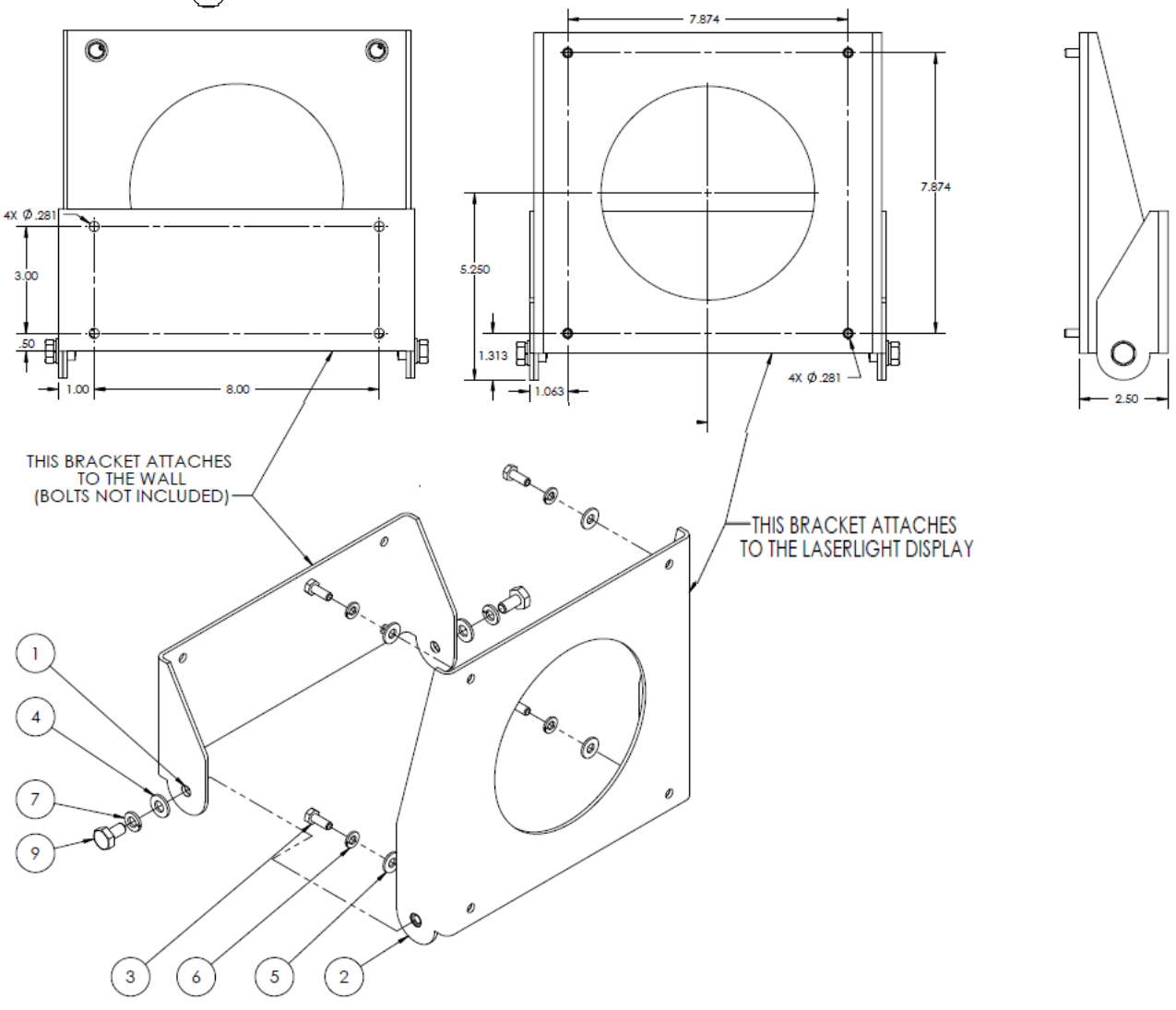
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# MSI Scoreboards Wireless RF

Featuring LaserLight2 Remote Displays

| Dimensions | | | |
|---|---|---|---|
| **22-inch enclosure (4-inch model)** | | | |
| A | 22.28 in (565 mm) | C | 3.28 in (85 mm) |
| B | 10.96 in (280 mm) | D | 9.80 in (250 mm) |
| **31-inch enclosure (6-inch model)** | | | |
| A | 30.63 in (780 mm) | C | 3.73 in (95 mm) |
| B | 13.94 in (355 mm) | D | 12.77 in (325 mm) |






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# TranSend™

Wireless Load Cell Interface System

## Specifications

**Power:**
5-6 VDC, 7-36 VDC 85-265 VAC

**Excitation Voltage:**
Transmitter: +4.8 VDC, 16x 350Ω or 32x 700Ω load cells

**Standard Antenna:**
1/2 wave 2dBi, articulated

**Frequency:**
Direct sequence spread spectrum at 2.4 GHz, 802.15.4

**Effective Range:**
100 ft or more

**Digital I/O:**
Three coil relays available on select models and 7000HD units

**Circuit Protection:**
RFI, EMI, ESD protection

**Serial Port:**
Full duplex RS-232

**Operating Temperature:**
-40°F to 185°F (-40°C to 85°C)

**Enclosure:**
NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model)
7000HD and 7001HD: IP68

**Additional RF Options:**
Wi-Fi
Bluetooth®
Cellular (consult)
802.15.4 FHSS

**Warranty:**
One-year limited warranty




*MSI-7000HD*




*TranSend*

## Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- Auto-off mode - selectable for 15, 30, 45, 60 minutes or off
- Auto-sleep mode - power down during non-use, power up with weight change or key press
- Serial communication cable included with all transmitters

## Additional HD Features

- IP68 milled aluminum enclosure
- Second radio modem available

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Transmitters** | | | |
| **5-6 VDC Power Input** | | | |
| **160330** | Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $840.00 |
| **159207** | Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $890.00 |
| **161949** | Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,015.00 |
| **176644 *** | Single-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176638 *** | Four-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176641 *** | Four-channel transmitter, includes three coil relays, Bluetooth | 2 lb | Consult |
| **176655** | Single-channel transmitter, no relays, Wi-Fi | 2 lb | $885.00 |
| **176648** | Four-channel transmitter, no relays, Wi-Fi | 2 lb | $935.00 |
| **176652** | Four-channel transmitter, includes three coil relays, Wi-Fi | 2 lb | $1,065.00 |
| **7-36 VDC Power Input** | | | |
| **160329** | Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $890.00 |
| **159470** | Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $915.00 |
| **161951** | Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,060.00 |
| **176645 *** | Single-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176639 *** | Four-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176642 *** | Four-channel transmitter, includes three coil relays, Bluetooth | 2 lb | Consult |
| **176656** | Single-channel transmitter, no relays, Wi-Fi | 2 lb | $935.00 |
| **176650** | Four-channel transmitter, no relays, Wi-Fi | 2 lb | $960.00 |
| **176653** | Four-channel transmitter, includes three coil relays, Wi-Fi | 2 lb | $1,120.00 |
| **85-265 VAC Power Input** | | | |
| **160328** | Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $915.00 |
| **159469** | Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $940.00 |
| **161950** | Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,095.00 |
| **176643 *** | Single-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176637 *** | Four-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176640 *** | Four-channel transmitter, includes three coil relays, Bluetooth | 2 lb | Consult |
| **176654** | Single-channel transmitter, no relays, Wi-Fi | 2 lb | $960.00 |
| **176647** | Four-channel transmitter, no relays, Wi-Fi | 2 lb | $990.00 |
| **176651** | Four-channel transmitter, includes three coil relays, Wi-Fi | 2 lb | $1,150.00 |

** Bluetooth modems only work with certain Android devices. Please contact MSI for potential applications.*





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# TranSend™

Wireless Load Cell Interface System

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Receivers** | | | |
| **5-6 VDC Power Input** | | | |
| **160337** | Single channel receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz | 2 lb | $890.00 |
| **160334** | Single channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, RF 802.15.4, 2.4 GHz | 2 lb | $940.00 |
| **160016** | Four channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,065.00 |
| **161941** | Single channel receiver to provide RS232 serial output | 2 lb | $695.00 |
| **160017** | Four channel receiver to provide RS232 serial output | 2 lb | $1,080.00 |
| **7-36 VDC Power Input** | | | |
| **160336** | Single channel receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4 GHz | 2 lb | $965.00 |
| **161939** | Single channel receiver to provide RS232 serial output | 2 lb | $795.00 |
| **160333** | Single channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, RF 802.15.4, 2.4 GHz | 2 lb | $1,065.00 |
| **159478** | Four channel receiver to provide RS232 serial output | 2 lb | $1,125.00 |
| **159476** | Four channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,195.00 |
| **85-265 VAC Power Input** | | | |
| **160335** | Single channel receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz | 2 lb | $1,010.00 |
| **161938** | Receiver to provide RS232 serial output | 2 lb | $850.00 |
| **160332** | Single channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, RF 802.15.4, 2.4 GHz | 2 lb | $1,120.00 |
| **159477** | Four channel receiver to provide RS232 serial output | 2 lb | $995.00 |
| **159475** | Four channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,295.00 |
| **7000HD:** | | | |
| **177942** | MSI-7000HD 4CH 85-265VAC, Three Coil Relays, 802.15.4 | | $1,920.00 |
| **177944** | MSI-7000HD 4CH 7-36VDC, Three Coil Relays, 802.15.4 | | $1,885.00 |
| **177945** | MSI-7000HD 4CH 9-36VDC Iso, Three Coil Relays, 802.15.4 | | $1,955.00 |
| **177950 *** | MSI-7000HD 4CH 85-265VAC, Three Coil Relays, Bluetooth® | | Consult |
| **177952 *** | MSI-7000HD 4CH 7-36VDC, Three Coil Relays,Bluetooth | | Consult |
| **177953 *** | MSI-7000HD 4CH 9-36VDC Iso, Three Coil Relays,Bluetooth | | Consult |
| **177995** | MSI-7000HD 4CH 85-265VAC, Three Coil Relays, WiFi | | $1,935.00 |
| **177997** | MSI-7000HD 4CH 7-36VDC, Three Coil Relays, WiFi | | $1,895.00 |
| **177998** | MSI-7000HD 4CH 9-36VDC Iso, Three Coil Relays, WiFi | | $1,980.00 |
| **7001HD** | | | |
| **178021** | MSI-7001HD 2CH 85-265VAC, 802.15.4 | | $1,150.00 |
| **178010** | MSI-7001HD 2CH 5-6VDC, 802.15.4 | | $1,040.00 |
| **178011** | MSI-7001HD 2CH 7-36VDC, 802.15.4 | | $1,115.00 |
| **178012** | MSI-7001HD 2CH 9-36VDC Isolated, 802.15.4 | | $1,125.00 |
| **178013 *** | MSI-7001HD 2CH 85-265VAC, Bluetooth | | Consult |
| **178014 *** | MSI-7001HD 2CH 5-6VDC, Bluetooth | | Consult |
| **178015 *** | MSI-7001HD 2CH 7-36VDC, Bluetooth | | Consult |
| **178016 *** | MSI-7001HD 2CH 9-36VDC Isolated, Bluetooth | | Consult |
| **178017** | MSI-7001HD 2CH 85-265VAC, WiFi | | $1,175.00 |
| **178018** | MSI-7001HD 2CH 5-6VDC, WiFi | | $1,125.00 |
| **178019** | MSI-7001HD 2CH 7-36VDC, WiFi | | $1,135.00 |
| **178020** | MSI-7001HD 2CH 9-36VDC Isolated, WiFi | | $1,200.00 |

** Bluetooth modems only work with certain Android devices. Please contact MSI for potential applications.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **162172** | Charger, TranSend™ for 6V SLA battery | $60.00 |
| **162173** | Battery, TranSend 6V SLA | $105.00 |
| **162175** | Enclosure, TranSend for 6V SLA battery | $300.00 |
| **150964** | RS-232 13 ft (4 m) serial cable with nine-pin (female) connector | $170.00 |
| **150965** | RS-232 13 ft (4 m) serial cable with nine-pin (male) connector | $170.00 |
| **160109** | AC adaptor, TranSend 6V | $50.00 |
| **162178** | Antenna extension kit, 5 ft coax cable | $415.00 |
| **139309** | Antenna kit, long range Omni with 3 m coax cable | $435.00 |
| **139310** | Antenna kit, corner reflector 9 dbi with 3 m coax cable | $430.00 |
| **197013** | Antenna extension kit, 20 ft | $445.00 |





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## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **139311** | Antenna kit, corner reflector 12 dbi with 3 m coax cable | $460.00 |
| **139312** | Antenna kit, Yagi 15 dbi with 3 m coax | $355.00 |
| **144345** | 30 m coaxial cable, for use with non-vehicle mount antenna kits | $405.00 |
| **139313** | Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable | $130.00 |
| **187424** | Dual xBee option kit for 7000HD with TNC connector | $180.00 |
| **162177** | Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers | $110.00 |
| **162184** | Load cell connector, TranSend, Field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers. | $55.00 |
| **162185** | Load cell connector, TranSend, Field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers. | $55.00 |
| **162186** | Load cell connector, TranSend, Field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers. | $55.00 |
| **162187** | Load cell connector, TranSend, Field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers. | $55.00 |
| **143531** | Power cord, 6 V SLA battery charger EU | $25.00 |
| **143533** | Power cord, 6 V SLA battery charger, Australia | $45.00 |
| **143534** | Power cord, 6 V SLA Battery charger, UK | $40.00 |
| **160110** | 265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China | $50.00 |
| **145085** | RS-232 serial cable, nine-pin unterminated | $110.00 |
| **164865** | Cable, 4 m, one-channel, mV/V output, LC input | $135.00 |
| **165648** | Cable, 5 m, one-channel, mV/V output, LC input | $135.00 |
| **165651** | Cable, 10 m, one-channel, mV/V output, LC input | $195.00 |
| **145084** | Cable, 2 m, one-channel, analog output | $55.00 |
| **144400** | Cable, 5 m, one-channel, analog output | $85.00 |
| **168903** | Cable, 10 m, one-channel, analog output | $125.00 |
| **Consult** | Straight connector, analog output, field wire able, 4-6 mM OD | Consult |
| **Consult** | Straight connector, analog output, field wire able, 6-8 mM OD | Consult |
| **Consult** | Right angle connector, analog output, field wire able, 4-6 mM OD | Consult |
| **Consult** | Right angle connector, analog output, field wire able, 6-8 mM OD | Consult |
| **184002** | 7000HD Half-plate mounted, FHSS, DC (battery) powered (half plate battery power supply sold separately) | Consult |
| **182244** | GoDex portable printer (compatible with android tablet app) | Consult |





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# MSI-9000 CellScale™




## Standard Features

- 2.4 GHz frequency hopping spread spectrum
- Two scale inputs and excitation with remote sensing (see accessories formatting connector)
- Power/switch cable, 13 ft (4 m) for 9-30 VDC input with two programmable switch inputs
- RS-232, RS-422 and RS-485 I/O with 13 ft (4 m) interface cable
- Three internal solid state relays for setpoint control
- Real-time clock
- NEMA Type 4, IP65 enclosure (NEMA Type 6, IP67 with long -range antenna)

## Approvals

## Specifications

**Enclosure:**
NEMA Type 4, IP65 milled anodized aluminum with O-ring gaskets
NEMA Type 6, IP67 with optional long range antenna

**Weight:**
3.5 lb (1.6 kg)

**Annunciators:**
8 LED status lamps for Power, Setpoints, Comm Port, Excitation & RF Modem

**Real-Time Clock:**
USA or European format programmable

**Power Input:**
9-30 VDC (Internal 85-265 VAC power supply optional)

**Operating Temperature:**
-4°F to 158°F (-20°C to 70°C)

**Scale Inputs:**
2 sensor inputs and 6 terminal connections

**Excitation:**
5 V (+5 V relative to ground)

**Calibration:**
Digital via input comport or RF with other CellScale weighing components.
Programmable calibration settings, include: AZM, Motion, Filter, Zero, Units, Capacity and Divisions

**Digital Filtering:**
Two-stage programmable digital filtering

**Totalization, Statistics and Product IDs:**
Push-button or automatic with each ID register. Up to 32 alphanumeric ID registers

**Radio Link:**
FHSS at 2.4 GHz (up to 64 network selections)

**Radio Link Effective Range:**
Typically 500 ft (150 m) indoor, 1,000 ft (300 m) outdoor with standard antennas. (See optional antennas for longer range)

**Standard Antenna:**
1/2 wave 2dBi, articulated

**RFI/EMI Shielding:**
Exceeds NIST HB44 and CE Standards

**Data I/O:**
2 programmable comports supporting RS-232 or RS-422

**Push Button Inputs:**
2 inputs on power connector and 1 isolated input on setpoints connector

**Connectors:**
12-pin MIL-C-26482 for load sensor input Turck compatible Pico for RS-232 output

**Math Channels:**
8 math channels programmable for arithmetic formula processing

**Internal Setpoints:**
3 60 V at 350 mA internal programmable solid state relay contacts

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 05-077



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## Part Number/Price

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **138366** | | Two channel A/D 85-265VAC 47-440Hz, 130-300VDC, 7-25VDC (consult factory for other configurations) | | $3,300.00 |

## Options/Accessories (Contact MSI for application consultation)

| Part # | MSI Part # | Description | Price |
|---|---|---|---|
| **Consult** | Consult | NTEP Certified (contact factory for specifications) | Consult |
| **Consult** | Consult | Internal AC/DC power supply (85-265 VAC, 47-440 Hz/130-300 VDC) includes a separate, independent 9-30 VDC power input | $320.00 |
| **137467** | Consult | External 85-265 VAC, 47-440 Hz/130-300 VDC power supply for indoor and outdoor installations | $530.00 |
| **144331** | Consult | Five dBi gain vehicle/cab mount whip antenna, includes 17 ft/5.2 m coaxial cable | $65.00 |
| **Consult** | Consult | Single or dual 4-20 mA output. Provides programmable current output for direct connection to PLC's and other data acquisition equipment. Note: See 4-20 mA option specification sheet for available product configurations | $490.00<br>$540.00 |
| **144091** | Consult | Non-terminated 4-20 mA cord set, 13 ft/4 m (longer lengths available by special order) | $105.00 |
| **143343** | Consult | Setpoints output cable, 13 ft/4 m for access to internal SS relays | Consult |
| **Consult** | Consult | Non-terminated serial cable for communication port connection, 13 ft/4 m (longer lengths available by special order) | $105.00 |
| **Consult** | Consult | Pre-wired load cell cable (various lengths for single and dual channel available) | Consult |
| **Consult** | Consult | Second A/D module (4 scale inputs - adds second 12-Pin connector) | $645.00 |
| **Consult** | Consult | CellScale Virtual Monitor (CVM) application software (enables PC to emulate scale indicator., contact factory for assistance) | Consult |
| **Consult** | Consult | Modem only equipped version (CellScale A/D removed) | $490.00 |
| **Consult** | Consult | Non-RF equipped version (CellScale RF modem removed) | $920.00 |
| **137096** | Consult | MSI-9002 breakout/summing box; 4 in (1 out or 4 in (2 out) | $780.00 |
| **137370** | Consult | MSI-9008 multiplexer; 8 in (1 out (expands single channel into 8) | $1,175.00 |
| **Consult** | Consult | Wi-Fi Ethernet Connectivity (802.11b - contact factory for assistance) | $380.00 |
| **143297** | Consult | 12-Pin mating connector for single or dual scale input | $60.00 |
| **Consult** | Consult | Long range antenna, 300-500 m omni-directional with 9 dBi gain, includes 10 ft/3 m coaxial cable | Consult |
| **143466** | 12147 | Antenna, 9 dBi | $445.00 |
| **144330** | 13205 | Antenna, 9 dBi corner reflector | Consult |
| **144329** | 13204 | Antenna, 14 dBi corner reflector | Consult |
| **144334** | 13209 | Antenna cable, 3 m | $60.00 |
| **143977** | 12750 | Antenna, YAGI, 15 dBi | Consult |
| **144332** | 13207 | Vehicle antenna cable | $132.00 |
| **148624** | 501705-0001 | Serial cable DB9 | $115.00 |
| **150990** | | RF Remote option (must be ordered with PN 153549 to work properly) | $930.00 |





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# MSI-9020 CellScale™ RF CellModem




## Standard Features

- Modem only component; provides serial interface with computers, printers and scoreboards to a CellScale network
- 2.4 GHz spread spectrum frequency hopping
- Power cable, 13 ft (4 m) for 9-30 VDC input
- One communication port; RS-232 or RS-422, 13 ft (4 m) interface cable
- NEMA Type 4, IP65 enclosure (NEMA Type 6, IP67 with long range antenna)

## Approvals

## Part Number/Price

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **138477** | 502536-0001 | MSI-9020 RF CellModem, DC power | 7 lb (3.5 kg) | $2,425.00 |
| **138478** | | MSI-9020 RF CellModem, AC/DC power | | Consult |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **Consult** | Consult | Internal 85-265 VAC, 47-440 Hz power supply | - | $320.00 |
| **143466** | 12147 | Long range antenna, 300 m-500 m omni-directional with 9 dBi gain, includes 10 ft/3 m coaxial cable | 1 lb (0.45 kg) | $445.00 |
| **Consult** | Consult | 9 dBi or 14 dBi gain corner reflector antenna | 1 lb (0.45 kg) | Consult |
| **Consult** | Consult | 5 dBi gain vehicle/cab mount whip antenna, includes 17 ft/5.2 m coaxial cable | 1 lb (0.45 kg) | Consult |
| **137567** | 502046-0001 | Non-terminated serial cable for communication port connection, 13 ft/4 m longer lengths available by special order | 1 lb (0.45 kg) | $110.00 |
| **Consult** | Consult | CellScale Virtual Monitor (CVM) application software (enables PC to emulate scale indicator) | Consult | Consult |

## Specifications

**Enclosure:**
NEMA Type 4, IP65 milled anodized aluminum with O-ring gaskets
NEMA Type 6, IP67 with optional long range antenna

**Weight:**
3.5 lb (1.6 kg)

**Annunciators:**
3 LED status lamps for Power, Data TX/RX and Configuration

**Power Input:**
9-30 VDC (Internal 85-265 VAC, 47-440 Hz power supply optional)

**Operating Temperature:**
-4°F to 158°F (-20°C to 70°C)

**Radio Link:**
FHSS at 2.4 GHz (up to 64 network selections)

**Radio Link Effective Range:**
Typically 500 ft (150 m) indoor, 1000 ft (300 m) outdoor with standard antennas.
(See optional antennas for longer range)

**Standard Antenna:**
1/2 wave 2dBi, articulated

**RFI/EMI Shielding:**
Exceeds NIST HB44 and CE Standards

**Data I/O:**
1 Comm Port with two connector interfaces for RS-232 and RS-422

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 05-077



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System/Application Description _____

Goals for Weighing System _____

Scale Type _____

Scale/System Capacity _____ ☐ lb ☐ kg ☐ Ton ☐ Metric Ton ☐ Other

# of Load Cells _____

Required System Accuracy _____% ☐ of Capacity ☐ of Applied Load

Legal for Trade? ☐ Yes ☐ No

Transmitter Power (at Load Cells) ☐ AC ☐ DC _____ Voltage ☐ Battery

Receiver Power (at Load Cells) ☐ AC ☐ DC _____ Voltage ☐ Battery

Check any Desired Output Options (If Applicable):

mV output ☐ Yes ☐ No

Analog output ☐ Yes ☐ No

Relays ☐ Yes ☐ No

Do you require a serial cable? Yes ☐ 9pin ☐ 25pin ☐ No

Remote Control Required? ☐ Yes ☐ No

Remote Display Required? ☐ Yes ☐ No

If Remote Display is not Required:

Are Zero, Tare, On/Off Capabilities Required? ☐ Yes ☐ No

If Remote Display is Required:

Are Zero, Tare, On/Off Capabilities Required from the Remote Display? ☐ Yes ☐ No

Does the Remote Display need to be Hand Held or Mounted? ☐ Hand Held ☐ Mounted

Is the Remote Display Wireless or Hard Wired? ☐ Wireless ☐ Hard Wired

***Note for SendIt Applications:***

*Every SendIt needs to be calibrated using a laptop/pc with a serial port (or a USB adapter). The calibration of the SendIt pair must be done during the installation.*





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# System Questionnaire

RF

Transmission Distance _____ ☐ ft ☐ m

Line of Sight ☐ Yes ☐ No

Obstructions (list any) _____

Potential Sources of RF Interference _____

Other RF Systems Present ☐ Yes _____ ☐ No

Indoor ☐ Outdoor ☐

**Sketch of RF Field**

This sketch will be used by our technicians to help find the optimum antenna types and locations for this application.

- Include all transmitters and receivers that are part of this weighing system.
- Include any other transmitters or receivers operating at 2.4 GHz
- Include any RF barriers, such as concrete walls, large steel equipment, cages
- Include sources of interference, such as high-power electrical motors and generators
- Include dimensions, so we can understand the range and antenna gain requirements.





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# Dimensioning

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**ESPAÑOL** | Visite **ricelake.com/spanish** para ver todos los materiales Rice Lake que están disponibles en español.

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# iDimension® Plus

Static Dimensioning System



## Approvals

## Specifications

**Physical Dimensions:**
Length: 25 in (63.5 cm)
Width: 14.25 in (36 cm)
Height: 63.8 in (162 cm)
Weight: 28.5 lb (13 kg)

**Power Requirements:**
Single power source 110-240 V external power supply, US power cord

**Object Colors:**
All opaque packaging

**Measurement Time:**
0.2 seconds, scale settling times vary by manufacturer

**I/O Ports:**
(1) USB t A port (interface to scale) (1) 10/100/100BASE-T Ethernet po (interface to PC)

**Software Integration:**
API and SDK files available for network device integration

**Package Contents:**
iDimension Plus, calibration object, USB display and US power cord

**Operating Temperature:**
32° F to 86° F (0° C to 30° C)

**Humidity:**
Non-condensing

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP
CE
FCC

The iDimension Plus static dimensioning system automatically measures parcels and irregular packages in less than 0.2 seconds to help determine if the package shipping fees will be determined using a dimensional or actual weight used in outbound shipments.

A small footprint allows for easy integration into current workstations, tables or shipping desks found in shipping environment or in retail counter applications.

## Standard Features

- Easy to assemble with limited operator training required, up and running within 30 minutes
- Displays dimensions in less than 200ms
- Requires virtually no special alignment or special handling while placing a package to increase throughput with adjustable scan zone and area of interest
- Includes 7 inch USB touchscreen monitor:
  - Displays dimensions, image, status and weight if scale is directly attached
  - Initial setup and configuration wizard
  - Access to operator controls and functions
- Dimensions parcels at 0.2 in (5 mm) Legal for Trade accuracy
- Dimensions irregular, shaped packages, polybags and uneven shapes to 0.5 in (1 cm) Legal for Trade accuracy using automatic recognition
- Legal for Trade measurements do not determine the minimum and maximum measurement capabilities available, see website for measurement capabilities

**Images:**

- Included low resolution color image captures overhead photo of every item, available in .bmp or .jpg format through XML API integration
- High resolution color image, 2880 x 2160 pixels, available from iDimension Plus 4K

**Peripherals:**

- Optional powered USB Hub for use of more than one peripheral and UPS Worldship interface
- Optional USB barcode scanner with keyboard wedge emulation will manually trigger dimensioning
- Rice Lake Weighing Systems BenchPro shipping and postal scales



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## Installed at 1.5M (60 inch) Pole Height.

### Legal for Trade Measurement Range - Cubes

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 5.4 in | 180 mm* | 48 in | 800/1200 mm* |
| Width | 5.4 in | 180 mm* | 28 in | 500/800 mm* |
| Height | 2.4 in | 50 mm* | 28 in | 700/100 mm* |
| Division | 0.2 in | 5 mm* | 0.2 in | 5 mm* |

### Legal for Trade Measurement Range -Irregulars

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 6.0 in | 180 mm* | 48 in | 800/1200 mm* |
| Width | 6.0 in | 180 mm* | 28 in | 500/800 mm* |
| Height | 6.0 in | 100 mm* | 28 in | 700/100 mm* |
| Division | 0.5 in | 10 mm* | 0.5 in | 10 mm* |

** Approval pending*

## Installed at 1.2M (48 inch) Pole Height

### Legal for Trade Measurement Range - Cubes

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 5.4 in* | 140 mm* | 40 in* | 600/1000 mm* |
| Width | 5.4 in* | 140 mm* | 24 in* | 350/600 mm* |
| Height | 2.4 in* | 50 mm* | 24 in* | 600/200 mm* |
| Division | 0.2 in* | 5 mm* | 0.2 in* | 5 mm* |

### Legal for Trade Measurement Range -Irregulars

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 6.0 in* | 140 mm* | 40 in* | 600/1000 mm* |
| Width | 6.0 in* | 140 mm* | 24 in* | 350/600 mm* |
| Height | 6.0 in* | 50 mm* | 24 in* | 600/200 mm* |
| Division | 0.5 in* | 10 mm* | 0.5 in* | 10 mm* |

** Approval pending*

## Part Numbers/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **iDimension Plus with 1.5M Pole Assembly** | | | |
| **192380** | iDim Plus 1.5M Pole Assy | | $6,295.00 |
| **200966** | iDim Plus 4K 1.5M Pole Assy | | $7,895.00 |
| **iDimension Plus with 1.2M Pole Assembly** | | | |
| **200972** | iDim Plus 1.2M Pole Assy | | $6,295.00 |
| **200967** | iDim Plus 4K 1.2M Pole Assy | | $7,895.00 |
| **iDimension Plus Accessories** | | | |
| **176307** | Quick Scan, QD2131 barcode scanner with USB cable. Keyboard wedge emulation mode only (alpha/numeric) | | $258.00 |
| **180007** | Kit USB Hub, 5M cable assy, power adapter, 4 port industrial hub | | $275.00 |
| **iDimension Plus UPS Worldship Interface** | | | |
| **180771** | Kit USB Hub for BenchPro Scale and UPS Worldship compatibility. Includes Interface cable for RS-232 & USB to PC | | $400.00 |
| **Optional Integration Solutions** | | | |
| * | QubeVu Desktop App, Software Keyboard Wedge, Windows 10 | | N/C |
| * | Qubevu Developers Guide (API) and SDK files | | N/C |
| **175812** | iDimension Software Suite, Windows 10 | | $2,250.00 |
| **202026** | Matrix Enterprise, network cloud based fleet and data management software | | $75.00/per device<br>$2,500.00/one-time |
| **Optional Factory Service and Support** | | | |
| **202029** | Factory software integration remote support | | $175.00/Hour |
| **202027** | Factory assembly, setup and configuration remote support | | $650.00/Unit |
| **202028** | Annual Software Maintenance | | $250.00/Unit |
| **Extended Warranty – 2 year standard** | | | |
| **202030** | iDimension Plus additional 1 year extended warranty | | $750.00 |
| **202031** | iDimension Plus additional 2 year extended warranty | | $1,500.00 |
| **202032** | iDimension Plus additional 3 year extended warranty | | $2,250.00 |
| **Rice Lake BenchPro Compatible Scales** | | | |
| **Postal Scale 12 x 14 inch Weight Platter** | | | |
| **192361 **** | Model BP 1214-35P - 70 lb Postal Scale, SS Weight Platter | | $845.00 |
| **194625 **** | Model BP 1214-35P - 70 lb Postal Scale, Painted Mild Steel Weight Platter | | $895.00 |
| **Shipping Scale 12 x 14 inch Weight Platter** | | | |
| **174879** | Model BP 1214-75S, 150 x 0.05 lb / 75 x 0.02 kg, Stainless Steel Weight Platter | | $565.00 |
| **184585** | Model BP 1214-75S, 150 x 0.05 lb / 75 x 0.02 kg Painted Mild Steel Weight Platter | | $645.00 |
| **Shipping Scale 18 x 18 inch Weight Platter** | | | |
| **202189** | Model BP 1818-75S, 150 x 0.05 lb / 75 x 0.02 kg, Stainless Steel Weight Platter | | $1,095.00 |
| **202190** | Model BP 1818-75S, 150 x 0.05 lb / 75 x 0.02 kg Painted Mild Steel Weight Platter | | $1,095.00 |
| **201730** | Model BP 1818-75S, 150 x 0.05 lb / 75 x 0.02 kg Ball Top Weight Platter | | $1,445.00 |
| **202191** | Model BP 1818-75S, 150 x 0.05 lb / 75 x 0.02 kg, Roller Conveyor Weight Platter | | $1,445.00 |

**Available for free download at www.ricelake.com*
***USB HID interface not available when in the Postal Scale lb/oz mode*





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# iDimension® Plus
Static Dimensioning System

## Part Numbers/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Shipping Scale 20 x 20 inch Weight Platter** | | | |
| **182395** | Model BP 2020-150S, 300 x 0.1 lb /150 x 0.05 kg, Stainless Steel Weight Platter | | $1,295.00 |
| **182396** | Model BP 2020-150S, 300 x 0.1 lb /150 x 0.05 kg, Painted Mild Steel Weight Platter | | $1,295.00 |
| **182398** | Model BP 2020-150S, 300 x 0.1 lb /150 x 0.05 kg, Roller Conveyor Weight Platter | | $1,595.00 |
| **Shipping Scale 24 x 24 inch Weight Platter** | | | |
| **182399** | Model BP 2424-150S, 300 x 0.1 lb /150 x 0.05 kg, Stainless Steel Weight Platter | | $1,495.00 |
| **182400** | Model BP 2424-150S, 300 x 0.1 lb /150 x 0.05 kg, Painted Mild Steel Weight Platter | | $1,495.00 |
| **182401** | Model BP 2424-150S, 300 x 0.1 lb /150 x 0.05 kg, Ball Top Weight Platter | | $1,795.00 |
| **182402** | Model BP 2424-150S, 300 x 0.1 lb /150 x 0.05 kg, Roller Conveyor Weight Platter | | $1,795.00 |



*Model BP 1214-S with stainless steel shroud*



*Model BP 1818-S with ball top shroud*



*Model BP 2424-S with roller conveyor weight platter*



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## New Castle Atlas Cart Specifications

**Dimensions (L x W x H):**
30 in long unit: 49 in x 26 in x 33 in (1,245 mm x 660 mm x 838 mm)
48 in long unit: 56.5 in x 26 in x 33 in (1,435 mm x 660 mm x 838 mm)
96.5 in (2,451 mm) overall height with iDimension Plus Series 1.5M pole assembly mount

**Shelf Dimensions (L x W):**
Laptop Shelf: 21 in x 12 in (533 mm x 304 mm)
30 in long shelf: 30 in x 24 in (762 mm x 610 mm)
48 in long shelf: 56.5 in x 26 in x 33 in (1,435 mm x 660 mm x 838 mm)

**Color:**
Black Powder Coat

**Overall Cart Capacity:**
125 lb (57 kg), not including iDimension plus and scale

## Battery Specifications:

**Model:**
EC380 Sealed Lad Acid Battery

**Typical Devices powered for 8 hour shift:**
Laptop, iDimension Plus and Scale

**Charge Time:**
9 hours SLA

## PowerSwap Nucleus Lithium Power System:

**Number of Batteries:**
Two

**Continuous Output Power (W):**
120 @ 1 battery, 240 @ 2 batteries

**Approximate Charging Time:**
8 Hours

*For more detailed battery specifications, see our website*



*Sealed Lead Acid (SLA)*



*PowerSwap Nucleus Lithium Power System*



*30" with Power Swap Nucleus® Lithium Power System*



*48" with Sealed Lead Acid Battery*

The iDimension Plus Mobile carts were designed to enable quick and accurate dimensioning directly at your product location. The cart series consists of 30” and 48” long workstations that hold and power the iDimension Plus and other accessories including scales, laptops, integration solutions and bar code scanners up to 12 + hours ar a time or 24/7 operation.

The iDimension Plus Mobile provides either a NewCastle systems light weight, swappable AC power industrial applications using the PowerSwap Nucleus Lithium Power System or traditional sealed lead acid (SLA) battery.

## Standard Features

- PowerSwap Nucleus Lithium Power System is a plug and play power system, no tools, heavy lifting or maintenance personnel required for battery charges
- Enhance speed and data collection for the optimization of warehouse space, truck/trailer loads and identifying best packaging solutions
- Dimension directly at product location; increase productivity up to 50% by eliminating costly motion, touches and transportation time
- Reduce operator fatigue and potential injury as carrying/moving parcels to fixed stations is eliminated
- 30% increase in pick rates, Quickly process increased volume due to business growth, seasonal peaks & more
- All iDimension Plus Mobile carts come standard with one top shelf, push handle with laptop shelf, waste basket, 6 in x 2 in rubber wheels with 2 locking casters, integrated power system and power strip.





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# NEW
# iDimension® Plus Mobile

## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **iDimension Plus Mobile with Power Swap Nucleus Lithium Power System** | | |
| **200085** | 30 in Long Atlas Series Cart with Power Swap Nucleus Lithium Power System | $8,125.00 |
| **200086** | 48 in Long Atlas Series Cart with Power Swap nucleus Lithium Power System | $8,425.00 |
| **iDimension Plus Mobile with SLA Power Source** | | |
| **200087** | 30 in Long Atlas Series Cart with SLA Power Source | $4,600.00 |
| **200088** | 48 in Long Atlas Series Cart with SLA Power Source | $4,900.00 |
| **iDimension Plus Mobile Replacement Parts** | | |
| **200191** | 2 Bay Charging station, model PWC-2 | $1,995.00 |
| **200192** | Lithium Iron Phosphate 36Ah battery, Model PSNU3.6 | $1,500.00 |

*See iDimension Plus Catalog Page for selection of dimensioing device and options*
*Rice Lake Weighing System recommends using the BenchPro Model BP1214 only due the overall cart capacity*



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## Specifications

**Physical Dimensions:**
Length: 25 in (63.5 cm)
Width: 14.25 in (36 cm)
Height: 63.8 in (162 cm)
Weight: 28.5 lb (13 kg)

**Power Requirements:**
Single power source 110-240 V external power supply, US power cord

**Object Colors:**
All opaque packaging

**Measurement Time:**
0.2 seconds, scale settling times vary by manufacturer

**I/O Ports:**
(3) USB type A port (scale, USB display, barcode scanner)
(1) 10/100/100BASE-T Ethernet port (interface to PC)

**Software Integration:**
API and SDK files available for network device integration

**Package Contents:**
iDimension 100XL sensor, mounting bracket, USB display, calibration object, DC power supply with 25 ft power US cord, 118" Micro b USB display and USB-A extension cable

**Operating Temperature:**
32° F to 86° F (0° C to 30° C)

**Humidity:**
Non-condensing

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP
CE
FCC




The iDimension Plus XL is specifically designed for integration to provide flexibility in the installation of a dimensioning solution to fit into your existing work flow.

Install into your kiosk for a custom solution. Over a conveyor, workstation, scale or table using the optional Rice Lake stand assembly or other pole, ceiling mount or from a support beam.

## Standard Features

**Approvals**

- Easy to assembly with limited operator training required, up and running within 30 minutes
- Displays dimensions in less than 200ms
- Requires virtually no special alignment or special handling while placing a package to increase throughput with adjustable scan zone and area of interest
- Includes 7 inch USB Touch Screen Monitor:
  - Displays dimensions, live overhead image, status and weight if scale is directly attached
  - Initial set-up and configuration wizard
  - Access to operator controls and functions
- Dimensions parcels at 0.2 in (5 mm) legal for trade accuracy
- Dimensions irregular, shaped packages, polybags and uneven shapes to 0.5 in (1 cm) legal for trade accuracy using automatic recognition
- Legal for trade measurements do not determine the minimum and maximum measurement capabilities available, see website for measurement capabilities

**Images:**

- Included low resolution color image captures overhead photo of every item, available in .bmp or .jpg format through XML API integration
- High resolution color image, 2880 x 2160 pixels, available from iDimension Plus 4K

**Peripherals:**

- Optional powered USB Hub for use of more than one peripheral and UPS Worldship interface
- Optional USB barcode scanner with keyboard wedge emulation will manually trigger dimensioning and add barcode text data into web service API.
- Rice Lake BenchPro Shipping and Postal Scales

## Options

- Mounting bracket with 110-240 power supply overhead mount and 25 foot US power cord.
- USB display ram mount kit
- Floor mount stand assembly, 122 inches in height, with adjustability from 1.2M to 2.0M mounting height.



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# NEW
# iDimension® Plus XL / OEM Series
Static Dimensioning System

## Installed at 2M (79 inch) Pole Height.

### Legal for Trade Measurement Range - Cubes

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 8.0 in* | 200 mm* | 48 in* | 1200 mm* |
| Width | 8.0 in* | 200 mm* | 32 in* | 700 mm* |
| Height | 4.0 in* | 100 mm* | 32 in* | 800 mm* |
| Division | 0.5 in* | 10 mm* | 0.5 in* | 10 mm* |

### Legal for Trade Measurement Range -Irregulars

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 8.0 in* | 200 mm* | 48 in* | 1200 mm* |
| Width | 8.0 in* | 200 mm* | 32 in* | 700 mm* |
| Height | 4.0 in* | 100 mm* | 32 in* | 800 mm* |
| Division | .01 in* | 20 mm* | 1.0 in* | 20 mm* |

** Approval pending*



*Shown with optional stand, conveyor not included*

## Installed at 1.5M (60 inch) Pole Height.

### Legal for Trade Measurement Range - Cubes

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 5.4 in | 180 mm* | 48 in | 800/1200 mm* |
| Width | 5.4 in | 180 mm* | 28 in | 500/800 mm* |
| Height | 2.4 in | 50 mm* | 28 in | 700/100 mm* |
| Division | 0.2 in | 5 mm* | 0.2 in | 5 mm* |

### Legal for Trade Measurement Range -Irregulars

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 6.0 in | 180 mm* | 48 in | 800/1200 mm* |
| Width | 6.0 in | 180 mm* | 28 in | 500/800 mm* |
| Height | 6.0 in | 100 mm* | 28 in | 700/100 mm* |
| Division | 0.5 in | 10 mm* | 0.5 in | 10 mm* |

** Approval pending*

## Installed at 1.2M (48 inch) Pole Height

### Legal for Trade Measurement Range - Cubes

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 5.4 in* | 140 mm* | 40 in* | 600/1000 mm* |
| Width | 5.4 in* | 140 mm* | 24 in* | 350/600 mm* |
| Height | 2.4 in* | 50 mm* | 24 in* | 600/200 mm* |
| Division | 0.2 in* | 5.0 mm* | 0.2 in* | 5.0 mm* |

### Legal for Trade Measurement Range -Irregulars

| | Minimum | | Maximum | |
|---|---|---|---|---|
| Length | 6.0 in* | 140 mm* | 40 in* | 600/1000 mm* |
| Width | 6.0 in* | 140 mm* | 24 in* | 350/600 mm* |
| Height | 6.0 in* | 50 mm* | 24 in* | 600/200 mm* |
| Division | 0.5 in* | 10 mm* | 0.5 in* | 10 mm* |

** Approval pending*





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## Part Numbers/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **200973** | iDimension Plus XL | – | $4,995.00 |
| **200975** | iDimension Plus XL 4K | | $6,995.00 |
| **iDimension Plus XL Mounting Options** | | | |
| **174660** | iDim XL floor stand with packaging | | $970.00 |
| **198708** | XL Mounting Hardware and Cable Assy Kit | | $175.00 |
| **184262** | iDimension USB operator display Ram mount kit | | $145.00 |
| **iDimension Plus XL Accessories** | | | |
| **176307** | Quick Scan, QD2131 barcode scanner with USB cable. Keyboard wedge emulation mode only (alpha/numeric) | | $258.00 |
| **180007** | Kit USB Hub, 5M cable assy, power adapter , 4 port industrial hub | | $275.00 |
| **iDimension Plus UPS Worldship Interface** | | | |
| **180771** | Kit USB Hub for BenchPro Scale and UPS worldship compatibility. Includes Interface cable for RS-232 & USB to PC | | $400.00 |
| **Integration Solutions** | | | |
| * | QubeVu Desktop App, Software Keyboard Wedge, Windows 10 | | N/C |
| * | Qubevu Developers Guide (API) and SDK files | | N/C |
| **175812** | iDimension Software Suite, Windows 10 | | $2,250.00 |
| **202026** | Matrix Enterprise, network cloud based fleet and data management software | | $75.00/ per device $2,500.00/ one- time |
| **Optional Factory Service and Support** | | | |
| **202029** | Factory software integration remote support | | $175.00/Hour |
| **202027** | Factory assembly, setup and configuration remote support | | $650.00/Unit |
| **202028** | Annual Software Maintenance | | $250.00/Unit |
| **Extended Warranty – 2 year standard** | | | |
| **202030** | iDimension Plus additional 1 year extended warranty | | $750.00 |
| **202031** | iDimension Plus additional 2 year extended warranty | | $1,500.00 |
| **202032** | iDimension Plus additional 3 year extended warranty | | $2,250.00 |
| **Rice Lake BenchPro Compatible Scales** | | | |
| **Postal Scale 12 x 14 inch Weight Platter** | | | |
| **192361 **** | Model BP 1214-35P - 70 lb Postal Scale , SS Weight Platter | | $845.00 |
| **194625 **** | Model BP 1214-35P - 70 lb Postal Scale, Painted Mild Steel Weight Platter | | $895.00 |
| **Shipping Scale 12 x 14 inch Weight Platter** | | | |
| **174879** | Model BP 1214-75S, 150 x 0.05lb / 75 x 0.02kg, Stainless Steel Weight Platter | | $565.00 |
| **184585** | Model BP 1214-75S, 150 x 0.05lb / 75 x 0.02kg Painted Mild Steel Weight Platter | | $645.00 |
| **Shipping Scale 18 x 18 inch Weight Platter** | | | |
| **202189** | Model BP 1818-75S, 150 x 0.05lb / 75 x 0.02kg, Stainless Steel Weight Platter | | $1,095.00 |
| **202190** | Model BP 1818-75S, 150 x 0.05lb / 75 x 0.02kg Painted Mild Steel Weight Platter | | $1,095.00 |
| **201730** | Model BP 1818-75S, 150 x 0.05lb / 75 x 0.02kg Ball Top Weight Platter | | $1,445.00 |
| **202191** | Model BP 1818-75S, 150 x 0.05lb / 75 x 0.02kg, Roller Conveyor Weight Platter | | $1,445.00 |
| **Shipping Scale 20 x 20 inch Weight Platter** | | | |
| **182395** | Model BP 2020-150S, 300 x 0.1lb /150 x 0.05kg, Stainless Steel Weight Platter | | $1,295.00 |
| **182396** | Model BP 2020-150S, 300 x 0.1lb /150 x 0.05kg, Painted Mild Steel Weight Platter | | $1,295.00 |
| **182398** | Model BP 2020-150S, 300 x 0.1lb /150 x 0.05kg, Roller Conveyor Weight Platter | | $1,595.00 |
| **Shipping Scale 24 x 24 inch Weight Platter** | | | |
| **182399** | Model BP 2424-150S, 300 x 0.1lb /150 x 0.05kg, Stainless Steel Weight Platter | | $1,495.00 |
| **182400** | Model BP 2424-150S, 300 x 0.1lb /150 x 0.05kg, Painted Mild Steel Weight Platter | | $1,495.00 |
| **182401** | Model BP 2424-150S, 300 x 0.1lb /150 x 0.05kg, Ball Top Weight Platter | | $1,795.00 |
| **182402** | Model BP 2424-150S, 300 x 0.1lb /150 x 0.05kg, Roller Conveyor Weight Platter | | $1,795.00 |

** Available for free download at www.ricelake.com*
***USB HID interface not available when in the Postal Scale lb/oz mode*





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# NEW
# iDimension® PWD System
Pallet Weighing and Dimensioning System



The iDimension PWD system includes a 5 ft x 5 ft (1.52 m x 1.52 m), 5,000 lb (2,500 kg) capacity floor scale with built-in forklift bumper guards, a weight indicator, a USB-connected touchscreen display and an overhead dimensioning system.

The iDimension PWD can be front-loaded with a forklift or side-loaded using a pallet jack with optional access ramps. Simply place the pallet on the floor scale and trigger the PWD less than two seconds, the iDimension PWD measures and provides dimensions, weight and images.

## Standard Features

**Versatile Uses**
iDimension PWD is capable of measuring pallets up to six feet (1.82 m) cubed—or packages as small as six inches (15.24 cm).

**Convenient Pallet Tare Mode**
For non-Legal for Trade applications, iDimension PWD can measure objects on a pallet by excluding their length and width and subtracting the known pallet height.

**Easy Network Integration**
The iDimension PWD is designed to easily transfer images and dimensions to a network, simplifying claims processes. Built with a web service interface, iDimension PWD offers simple integration using configurable capture definitions through HTTP requests, status checking and XML parsing.

**Quick, Simple Installation**
In less than a day, the iDimension PWD can be set up, configured and put to work.

## Approvals

NTEP

## Options

**High Resolution Camera**
Capture an image of each piece of freight to provide proof of condition to simplify the freight damage claim process. Produces a 2.4 mm color image at 2688 x 1606 pixels

**Wired or Wireless Barcode Scanner**
Keyboard wedge emulation will manually trigger the iDimension PWD to dimension and add barcode text data into web service API

**Access Ramps**
One or two side-mounted ramps provide access for pallet jacks

**Overhead 5th Sensor**
Increases performance when dimensioing highly reflective and IR sensitive pallet shrink wrap material and small protrusion located on top of freight pallets

**Software Programs**
QubeVu Desktop for use as a software keyboard wedge, transferring weight and dimensions to connected terminal. iDimension Software Suite for storing data and images transferring data to ERP and WMS systems.

**Software Maintenace and Support**
Annual software maintenace, extended warranty and 24/7 factory technical support available

## Specifications

**Legal for Trade Measurement Range (L x W x H):**
Maximum freight size:
72 in x 72 in x 72 in (182 cm x 182 cm x 182 cm)
Minimum freight size:
6 in x 6 in x 6 in (15 cm x 15 cm x 15 cm)

**Measurement Capabilities:**
48 in x 42 in x 84 in (120 cm x 105 cm x 210 cm)
Contact factory for more examples

**Measurement Increment:**
0.5 in (1 cm)

**Performance Characteristics:**
Most surfaces are captured, transparent/translucent and glossy surfaces may provide a variance.

**Item Placement:**
Single pallet centered on the floor scale for best performance

**Minimum Pallet Height:**
4.25 in (10.80 cm) wood pallets

**Shapes:**
Solid shapes, (3-inch (7.62 cm) protrusions or more) will be included in dimensions

**Lighting Conditions:**
Operates in any indoor lighting environment

**System Contents:**
iDimension PWD
Calibration object
12 in x 12 in x 12 in (30.5 cm x 30.5 cm x 30.5 cm) test box

**Network Interface:**
One static IP address required when used with a mobile PC. Up to 11 IP addresses reserved when connected directly to the network.

**Power Requirements:**
Single power source (96-264 VAC), with 25 ft (7.62 m) power cable

**Optional Network Camera:**
2.4 mm POE network color camera with 3-axis camera angle adjustment. IP24 rating. Standard 2688 x 1606 pixels, 96 dpi @ 751kb standard output in .jpeg format. Configurable for time and date, scan ID, system serial #, dimensions and dimensional indicators.

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Humidity:**
0-90% non-condensing

**Warranty:**
Two-year limited warranty
Five-year limited warranty, sensors only

**Approvals:**
NTEP



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## Part Numbers/Price

| Part # | Description | Capacity | Dimensions | Est. Weight | Price |
|---|---|---|---|---|---|
| **System** | | | | | |
| **199318** | iDimension PWD System | 5,000 lb (2,500 kg), 6 ft x 6 ft x 6 ft (1.82 m x 1.82 m x 1.82 m) max | – | – | $28,900.00 |
| **System Options** | | | | | |
| **200168** | 2.4 mm POE network camera – up to 1 optional | | | | $875.00 |
| **199320** | Data Logic PM 9100RB wireless scanner kit | | | | $1,360.00 |
| **176307** | Datalogic QuickScan QD2131 KBW, wired USB cable | | | | $258.00 |
| **199665** | iDimension PWD pallet jack ramp | | | | $425.00 |
| **199666** | Optional 5th overhead sensor | | | | $1,895.00 |
| **Optional Integrated Solutions** | | | | | |
| * | QubeVu Desktop App, Software Keyboard Wedge, Windows 10 | | | | N/C |
| * | Qubevu Developers Guide (API) and SDK files | | | | N/C |
| **175812** | iDimension Software Suite, Windows 10 | | | | $2,250.00 |
| **Optional Factory Service and Support** | | | | | |
| **202029** | Factory software integration remote support | | | | $175.00 |
| **202027** | Factory assembly, setup and configuration remote support | | | | $650.00/ Unit |
| **194215** | Annual Software Maintenance | | | | Consult |
| **171666** | iDimension field install and training/day, T & E not included | | | | $1,395.00 |
| **Extended Warranty – 2 year standard** | | | | | |
| **202033** | iDimension PWD/LTL additional 1 year extended warranty | | | | $1,200.00 |
| **202034** | iDimension PWD/LTL additional 2 year extended warranty | | | | $2,400.00 |
| **202035** | iDimension PWD/LTL additional 3 year extended warranty | | | | $3,600.00 |

** Available for free download at www.ricelake.com*





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# iDimension® LTL

Pallet Dimensioning System




The iDimension LTL uses advanced sensing technology to determine the cubic dimensions of freight, ensuring that freight code compliance is recorded and declared. The iDimension LTL removes the potential for human error when taking measurements. The iDimension LTL accurately captures freight dimensions in less than two seconds.

## iDimension LTL Stop & Go Feature

Increases throughput of palletized dimensioning, the iDimension LTL Stop & Go feature provides an NTEP approved capability of measuring pallets without having to remove the forklift from the target zone for up-to 72 in x 72 in x 84 in {L x W x H} pallets and continue to achieve accuracy and less than 2 second dimension time.

## Standard Features

- Legal for Trade measurement range for maximum freight size at 96 in x 96 in x 96 in and minimum freight size at 12 in x 12 in x 12 in with 0.5-inch accuracy
- 360-degree access for easy pallet placement in the center of target zone
- No moving parts and solid-state design
- Minimal set-up and training required
- Up to four low-resolution intensity images provide a bounding box to identify measurement recorded and can be configured to include time and date, scan ID, serial number, dimensions and dimensioning indications

## Options

- Up to two high-resolution cameras enable freight identification, damage assessment and tracking
- LED lighting kit reflects a light grid on the floor, eliminating the need to paint, etch or tape the dimensioning zone
- 23-inch forklift operator display provides instantaneous feedback to the forklift or pallet jack operator, communicating dimensions and system status
- iDimension software suite provides a customizable GUI and triggering methods, storage, logging and transfer of shipment and dimensional data and ftp images to existing ERP, TMS and WMA without the use of the iDimension web service interface API
- iDimension software suite can be used to integrate the iDimension LTL with barcode scanners, floor scales and forklift scales

## Specifications

**Legal for Trade Measurement Range:**
Maximum freight size: (L x W x H)
96 in x 96 in x 96 in
Minimum freight size: (L x W x H)
12 in x 12 in x 12 in

**Measurement Increment:**
0.5 in

**Dimensioning Speed:**
Within 2 seconds from the time the target area is clear and the iDimension LTL has been triggered to scan

**Throughput:**
Average transaction time of 7 seconds

**Performance Characteristics:**
Most surfaces are captured, including black plastic shrink wrap. Transparent/translucent and glossy surfaces may provide a variance.

**Item Placement:**
Single pallet within the center of the target zone for best performance

**Minimum Pallet Height:**
4.25 in wood pallets

**Unobstructed Floor Space:**
For best performance, provide a 11 ft x 11 ft area clear of walls, inventory racks or barriers

**Minimum Ceiling Height:**
12.75 ft

**Shapes:**
Solid shapes, (3-inch protrusions or more) will be included in dimensions

**Lighting Conditions:**
Operates in any indoor lighting environment

**Power Requirements:**
Single power source (96-264 VAC), with 25 ft power cable

**Optional Network Camera:**
2.4 mm fixed POE network color camera with 3-axis camera angle adjustment. IP24 rating. Standard 2688 x 1606 pixels, 96 dpi @ 751kb standard output in .jpeg format. Configurable for time and date, scan ID, system serial #, dimensions and dimensional indicators.

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Humidity:**
0-90% non-condensing

**Warranty:**
Two-year limited warranty
Five-year limited warranty, sensors only



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## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **Systems** | | |
| 194205 | iDimension LTL | $48,495.00 |
| **System Options** | | |
| 188755 | 2.4 mm POE network camera – up to 2 optional | $875.00 |
| 194206 | iDimension LTL LED target zone light kit | $1,795.00 |
| 193830 | 21.5 in commercial forklift operator monitor display kit commercial option | $2,495.00 |
| 176019 | 20 x 20 x 20 in sanalite test box | $435.00 |
| 174132 | 50 ft AC power cord | $45.00 |
| **Mounting Options** | | |
| 194208 | 80/20 ceiling mount kit, 45 degree install (25 ft ceiling max) | $2,795.00 |
| 188446 | 80/20 ceiling mount kit (25 ft ceiling max) | $2,495.00 |
| 188757 | Aircraft wire ceiling mounting kit (35 ft ceiling max) | $1,795.00 |
| **PC Options** | | |
| 189332 | JLT mobile PC and mount kit hardware, Windows 10 | $6,500.00 |
| 202214 | JLT mobile PC overhead mounting kit on iDimension LTL | $215.00 |
| 174659 | JLT mobile PC stand and guard rail kit | $1,250.00 |
| 201558 | JLT Flash 64GB Cfast, iDimension SS 500 record storage | $750.00 |
| **Optional Integration Solutions** | | |
| *** | QubeVu Desktop App, Software Keyboard Wedge, Windows 10 | N/C |
| *** | Qubevu Developers Guide (API) and SDK files | N/C |
| 175812 | iDimension Software Suite, Windows 10 | $2,250.00 |
| 201447 | iDimension SS real-time status display desktop app (Stop & Go) | $250.00 |
| 201448 | iDimension SS stand alone forklift data management web app (Stop & Go) | $250.00 |
| **iDimension LTL Stop and Go** | | |
| 198480 | Stop and GO activation license key | Consult |
| 198106 | Universal Class II Forklift Carriage 34" Stop and GO reflector plate | $235.00 |
| 193858 | CLS Forklift Scale Stop and GO reflector plate | $145.00 |
| **Optional Factory Service and Support** | | |
| 202029 | Factory software integration remote support | $175.00/Hour |
| 202027 | Factory assembly, setup and configuration remote support | $650.00/Unit |
| 194215 | Annual Software Maintenance | Consult |
| 171666 | iDimension field install and training/day, T & E not included | $1,395.00 |
| **Extended Warranty – 2 year standard** | | |
| 202033 | iDimension PWD/LTL additional 1 year extended warranty | $1,200.00 |
| 202034 | iDimension PWD/LTL additional 2 year extended warranty | $2,400.00 |
| 202035 | iDimension PWD/LTL additional 3 year extended warranty | $3,600.00 |
| **Replacement Parts** | | |
| 174374 | JLT Mobile PC AC power adapter and cord | $135.00 |
| 175621 | USB 2.0/ Ethernet adapter (USB A to RJ45) | $50.00 |
| 184197 | 20 x 20 x 20 in wood test box | $40.00 |
| 189498 | iDimension LTL & 400 plus calibration object | $410.00 |
| 188026** | Sensor – Network IP unassigned | $1,300.00 |
| 195405 | Sensor, labeled 1, sensor #4, 192.168.0.4 IP address | $1,300.00 |
| 195406 | Sensor, labeled 2, sensor #3, 192.168.0.5 IP address | $1,300.00 |
| 195407 | Sensor, labeled 3, sensor #2, 192.168.0.6 IP address | $1,300.00 |
| 195408 | Sensor, labeled 4, sensor #5, 192.168.0.7 IP address | $1,300.00 |
| 195409 | Sensor, labeled 5, sensor #1, 192.168.0.8 IP address | $1,300.00 |

**Requires factory support and training on first installation of iDimension LTL*
***Requires IP configuration on site with IFM Vision Assistant software, consult factory*
**** Available for free download at www.ricelake.com*



www.ricelake.com | Phone: 800-472-6703



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# Floor Scales

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*Pit Frame Concrete Details* – 20,000 lb Capacity*

**ROUGHDECK® HP-H** ..... **479**
*Pit Frame Concrete Details* – 30,000 lb Capacity*

**AUTOLIFT HE** ..... **480**
*Pit Frame Concrete Details**

**ROUGHDECK® QC-X** ..... **481**
*Pit Frame Concrete Details**

**ROUGHDECK® QC** ..... **482**
*Pit Frame Concrete Details**

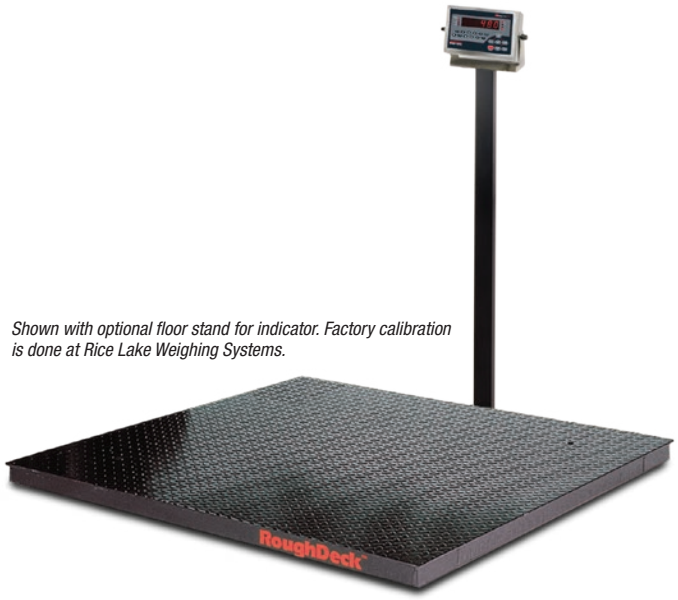
**SUMMIT® 3000** ..... **483**
*Pit Frame Concrete Details**


**ESPAÑOL** | Visite **ricelake.com/spanish** para ver todos los materiales Rice Lake que están disponibles en español.


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# RoughDeck® Rough-n-Ready System

Floor Scale and Indicator Package




*Shown with optional floor stand for indicator. Factory calibration is done at Rice Lake Weighing Systems.*







## Standard Features

- Package includes: RoughDeck HP 4 ft x 4 ft x 3.5 in floor scale, 20 ft of hostile environment load cell cable, quick disconnect and indicator
- Package factory-calibrated for 5,000 divisions
- Factory Calibrated

## APPROVALS

## Specifications

**RoughDeck Approvals:**
NTEP CC 92-001 Class III 5,000 d
Measurement Canada AM-4827, Class III 5,000 d

**480/480 Plus Legend™ Approvals:**
Measurement Canada AM-5892,
Accuracy Class III/IIIHD, 10,000 d
NTEP CC 12-123,
Accuracy Class III/IIIL, 10,000 d
OIML R76/2006-NL1-12.48, T5692, TC8322
Accuracy Class III, 10,000 d
CE Marked
UL Marked

**482/482 Plus Legend™ Approvals:**
Measurement Canada AM-5892,
Accuracy Class III/IIIHD, 10,000 d
NTEP CC 12-123,
Accuracy Class III/IIIL, 10,000 d
OIML R76/2006-NL1-12.48, T5692, TC8322
Accuracy Class III, 10,000 d
CE Marked

**680 Synergy Series Approvals:**
NTEP CC 12-123, Class III/IIIL, 10,000d
Measurement Canada AM-5892,
Class III/IIIHD, 10,000d
OIML R76/2006-A-NL1-19.56
UL/cUL Listed
CE Marked

**Warranty:**
RoughDeck HP weldment five years, load cells and indicators two years, all other components one year

*Refer to Floor Scale and Indicator sections of catalog for complete specifications.*

*Approvals are for floor scales only. Please refer to indicator section for indicator approvals.*



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## Part Number/Price

| Part# | Floor Scale Capacity | Indicator | Est. Weight | Price |
|---|---|---|---|---|
| **† 115 VAC - 4 ft x 4 ft x 3.5 in RoughDeck (NTEP Certified) Indicator Package with Tilt Stand** | | | | |
| **155666** | 5,000 lb | 480 | 405 lb | $2,300.00 |
| **168140** | 5,000 lb | 480 Plus | 405 lb | $2,300.00 |
| **168146** | 5,000 lb | 482 | 405 lb | $2,400.00 |
| **168152** | 5,000 lb | 482 Plus | 405 lb | $2,400.00 |
| **168159** | 5,000 lb | 482 with internal battery | 405 lb | $2,600.00 |
| **168165** | 5,000 lb | 482 Plus with internal battery | 405 lb | $2,600.00 |
| **196661** | 5,000 lb | 680 | 405 lb | $2,500.00 |
| **155667** | 10,000 lb | 480 | 405 lb | $2,300.00 |
| **168141** | 10,000 lb | 480 Plus | 405 lb | $2,300.00 |
| **168147** | 10,000 lb | 482 | 405 lb | $2,400.00 |
| **168153** | 10,000 lb | 482 Plus | 405 lb | $2,400.00 |
| **168160** | 10,000 lb | 482 with internal battery | 405 lb | $2,600.00 |
| **168166** | 10,000 lb | 482 Plus with internal battery | 405 lb | $2,600.00 |
| **196662** | 10,000 lb | 680 | 405 lb | $2,500.00 |
| **†† 230 VAC - 4 ft x 4 ft x 3.5 in RoughDeck (NTEP Certified) Indicator Package with Tilt Stand** | | | | |
| **155962** | 5,000 lb | 480 | 405 lb | $2,300.00 |
| **168142** | 5,000 lb | 480 Plus | 405 lb | $2,300.00 |
| **168148** | 5,000 lb | 482 | 405 lb | $2,400.00 |
| **168154** | 5,000 lb | 482 Plus | 405 lb | $2,400.00 |
| **168161** | 5,000 lb | 482 with internal battery | 405 lb | $2,600.00 |
| **168167** | 5,000 lb | 482 Plus with internal battery | 405 lb | $2,600.00 |
| **196663** | 5,000 lb | 680 | 405 lb | $2,500.00 |
| **155963** | 10,000 lb | 480 | 405 lb | $2,300.00 |
| **168143** | 10,000 lb | 480 Plus | 405 lb | $2,300.00 |
| **168149** | 10,000 lb | 482 | 405 lb | $2,400.00 |
| **168155** | 10,000 lb | 482 Plus | 405 lb | $2,400.00 |
| **168162** | 10,000 lb | 482 with internal battery | 405 lb | $2,600.00 |
| **168168** | 10,000 lb | 482 Plus with internal battery | 405 lb | $2,600.00 |
| **196664** | 10,000 lb | 680 | 405 lb | $2,500.00 |

## Part Number/Price

| Part# | Floor Scale Capacity | Indicator | Est. Weight | Price |
|---|---|---|---|---|
| **† 115 VAC 4 ft x 4 ft x 3.5 in RoughDeck Canadian Weights and Measures Approved Indicator Package with Tilt Stand** | | | | |
| **155668** | 2,500 kg | 480 | 405 lb | $2,300.00 |
| **168144** | 2,500 kg | 480 Plus | 405 lb | $2,300.00 |
| **168150** | 2,500 kg | 482 | 405 lb | $2,400.00 |
| **168156** | 2,500 kg | 482 Plus | 405 lb | $2,400.00 |
| **168163** | 2,500 kg | 482 with internal battery | 405 lb | $2,600.00 |
| **168169** | 2,500 kg | 482 Plus with internal battery | 405 lb | $2,600.00 |
| **196665** | 2,500 kg | 680 | 405 lb | $2,500.00 |
| **155669** | 5,000 kg | 480 | 405 lb | $2,300.00 |
| **168145** | 5,000 kg | 480 Plus | 405 lb | $2,300.00 |
| **168151** | 5,000 kg | 482 | 405 lb | $2,400.00 |
| **168157** | 5,000 kg | 482 Plus | 405 lb | $2,400.00 |
| **168164** | 5,000 kg | 482 with internal battery | 405 lb | $2,600.00 |
| **168170** | 5,000 kg | 482 Plus with internal battery | 405 lb | $2,600.00 |
| **196666** | 5,000 kg | 680 | 405 lb | $2,500.00 |

## Options/Accessories

| Part# | Description | Price |
|---|---|---|
| **Consult** | Access ramps, pit frames, bumper guards and portability frames available | See end of section for details |
| **18777** | Floor anchor plates, mild steel (set of 2) | $35.00 |
| **19352** | RoughDeck floor stand for indicator, 36.3 in high, mild steel | $235.00 |
| **126384** | RoughDeck floor stand for indicator, 48 in high, mild steel | $260.00 |
| **77925** | Revolution® Scaleware software | $35.00 |


*†† CEE 7/7 plug*


*† NEMA 5-15 plug*

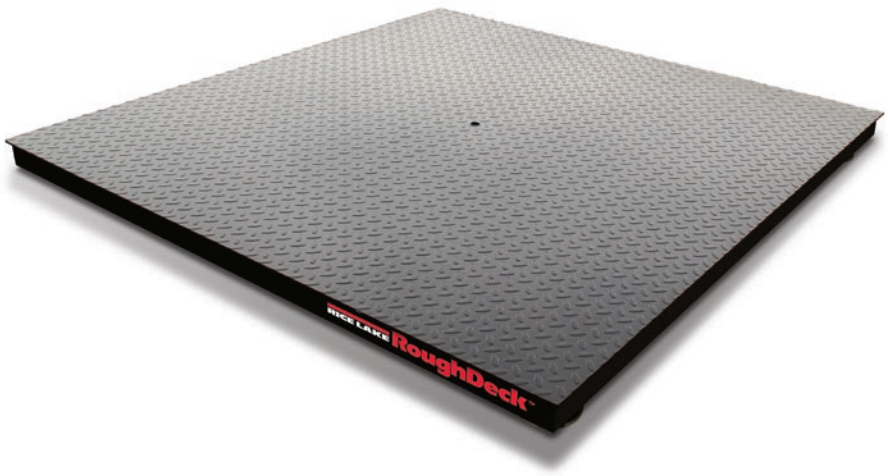





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# RoughDeck® HP

High Performance Structural Steel Low-profile Floor Scale




## Specifications

**End Load Capacity:**
200% full scale at 1,000 lb
100% full scale at 2,000 lb, and 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1m) for connecting junction box to indicator

**Threaded Eyebolt:**
Hole (1/2-20NF) located in center of deck for easy lifting

**Warranty (limited):**
RoughDeck HP weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001, Class III 5,000d
Measurement Canada AM-4827, Class III 5,000d

## Standard Features

- Heavy-duty industrial design
- Structural steel channel frame
- Four NTEP Certified alloy steel, shear beam load cells
- 20ft SURVIVOR® EL147HE hostile environment load cell cable
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Side-access junction box
- Rugged diamond deck safety treadplate
- 4 adjustable stainless steel SUREFOOT™ support feet
- 4 corner overload stops (Canadian versions only)
- Level bubble (Canadian versions only)

## APPROVALS



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## Part Number/Price

| Part # With Quick Connector | Part # Without Quick Connector | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|---|
| **66318**† | **67695** | 2.5 ft x 2.5 ft x 3.5 in | 2,000 lb | 173 lb | $1,650.00 |
| **66320**† | **67693** | 3 ft x 3 ft x 3.5 in | 1,000 lb | 232 lb | $1,650.00 |
| **66317**† | **67696** | 3 ft x 3 ft x 3.5 in | 2,000 lb | 232 lb | $1,650.00 |
| **105300**† | **105301** | 3 ft x 3 ft x 3.5 in | 5,000 lb | 232 lb | $1,650.00 |
| **66319** | **67694** | 4 ft x 4 ft x 3.5 in | 1,000 lb | 375 lb | $1,750.00 |
| **67618** | **67697** | 4 ft x 4 ft x 3.5 in | 2,000 lb | 375 lb | $1,750.00 |
| **66316** | **67698** | 4 ft x 4 ft x 3.5 in | 5,000 lb | 375 lb | $1,750.00 |
| **66315** | **67699** | 4 ft x 4 ft x 3.5 in | 10,000 lb | 375 lb | $1,750.00 |
| **66314** | **67700** | 4 ft x 5 ft x 3.5 in | 5,000 lb | 437 lb | $1,920.00 |
| **66313** | **67701** | 4 ft x 5 ft x 3.5 in | 10,000 lb | 567 lb | $2,240.00 |
| **66312** | **67702** | 4 ft x 6 ft x 3.5 in | 5,000 lb | 510 lb | $2,070.00 |
| **66311** | **67703** | 4 ft x 6 ft x 3.5 in | 10,000 lb | 656 lb | $2,440.00 |
| **66310** | **67704** | 5 ft x 5 ft x 3.5 in | 5,000 lb | 541 lb | $2,100.00 |
| **66309** | **67705** | 5 ft x 5 ft x 3.5 in | 10,000 lb | 696 lb | $2,500.00 |
| **66308** | **67706** | 5 ft x 6 ft x 3.5 in | 5,000 lb | 646 lb | $2,320.00 |
| **66307** | **67707** | 5 ft x 6 ft x 3.5 in | 10,000 lb | 821 lb | $2,740.00 |
| **66306** | **67708** | 5 ft x 7 ft x 3.5 in | 5,000 lb | 734 lb | $2,500.00 |
| **66305** | **67709** | 5 ft x 7 ft x 3.5 in | 10,000 lb | 929 lb | $2,990.00 |
| **Canadian Weights and Measures Approved** | | | | | |
| **191928**† | **191930** | 2.5 ft x 2.5 ft x 3.5 in | 1,000 kg | 173 lb | $1,650.00 |
| **191949**† | **191950** | 3 ft x 3 ft x 3.5 in | 500 kg | 232 lb | $1,650.00 |
| **66464**† | **67710** | 3 ft x 3 ft x 3.5 in | 1,000 kg | 232 lb | $1,650.00 |
| **191931**† | **191932** | 3 ft x 3 ft x 3.5 in | 2,500 kg | 232 lb | $1,650.00 |
| **191951** | **191952** | 4 ft x 4 ft x 3.5 in | 500 kg | 375 lb | $1,750.00 |
| **191933** | **191934** | 4 ft x 4 ft x 3.5 in | 1,000 kg | 375 lb | $1,750.00 |
| **66465** | **67711** | 4 ft x 4 ft x 3.5 in | 2,500 kg | 375 lb | $1,750.00 |
| **66466** | **67712** | 4 ft x 4 ft x 3.5 in | 5,000 kg | 375 lb | $1,750.00 |
| **191935** | **191936** | 4 ft x 5 ft x 3.5 in | 2,500 kg | 437 lb | $1,920.00 |
| **191937** | **191938** | 4 ft x 5 ft x 3.5 in | 5,000 kg | 567 lb | $2,240.00 |
| **191939** | **191940** | 4 ft x 6 ft x 3.5 in | 2,500 kg | 510 lb | $2,070.00 |
| **191941** | **191942** | 4 ft x 6 ft x 3.5 in | 5,000 kg | 656 lb | $2,440.00 |
| **66467** | **67713** | 5 ft x 5 ft x 3.5 in | 2,500 kg | 541 lb | $2,100.00 |
| **66468** | **67714** | 5 ft x 5 ft x 3.5 in | 5,000 kg | 696 lb | $2,500.00 |
| **191943** | **191944** | 5 ft x 6 ft x 3.5 in | 2,500 kg | 646 lb | $2,320.00 |
| **191945** | **191946** | 5 ft x 6 ft x 3.5 in | 5,000 kg | 821 lb | $2,740.00 |
| **66469** | **67715** | 5 ft x 7 ft x 3.5 in | 2,500 kg | 934 lb | $2,500.00 |
| **66470** | **67716** | 5 ft x 7 ft x 3.5 in | 5,000 kg | 929 lb | $2,990.00 |

† *Not recommended for use with pallet jacks*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Access ramps, pit frames, bumper guards and portability frames available | See end of section for details |
| **Consult** | Smooth deck instead of diamond safety tread plate | N/C |
| **18777** | Floor anchor plates, mild steel (set of two) | $35.00 |
| **Consult** | Four drilled deck holes for scale height adjustment | $40.00 |
| **19352** | RoughDeck floor stand for indicator, 36.3 in high, mild steel | $235.00 |
| **126384** | RoughDeck floor stand for indicator, 48 in high, mild steel | $260.00 |
| **Consult** | Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells and hardware | +$120.00 list price add-on |
| **Consult** | Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware | +$440.00 list price add-on |
| **Consult** | Epoxy paint | +$90.00 list price add-on |
| **Consult** | Top access junction box | +$100.00 list price add-on |
| **Consult** | Forklift channel option (up to 5 ft x 7 ft 10,000 lb, accommodates fork tines no larger than (W x H) 5 in x 2 in, fork entry is on opposite side of junction box location) | +$400.00 list price add-on |




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# RoughDeck® RP

Rodent Protection




## Specifications

**End Load Capacity:**
100% full scale at 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1m) for connecting junction box to indicator

*Note: 1/2" conduit fitting supplied, conduit for homerun cable to be supplied by customer*

**Threaded Eyebolt:**
Hole (1/2-20NF) located in center of deck for easy lifting

**Warranty (limited):**
RoughDeck RP weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001, Class III 5,000d

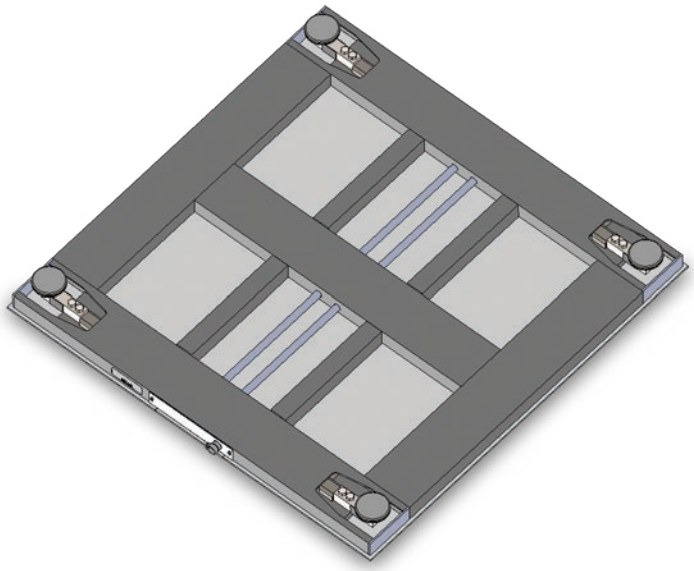
## Standard Features

- Heavy-duty industrial design
- Structural steel channel frame
- Four NTEP Certified alloy steel, shear beam load cells
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable with 1/2 in conduit fitting (conduit for homerun cable to be supplied by customer)
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Top-access junction box with additional top access cover for accessing load cell cables into scale conduit
- Rugged diamond deck safety treadplate
- Four adjustable stainless steel SUREFOOT™ support feet

### APPROVALS

## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **195834** | 4 ft x 4 ft x 3.5 in | 5,000 lb | 375 lb | $1,995.00 |
| **195835** | 4 ft x 4 ft x 3.5 in | 10,000 lb | 375 lb | $1,995.00 |
| **195836** | 5 ft x 5 ft x 3.5 in | 5,000 lb | 541 lb | $2,345.00 |
| **195837** | 5 ft x 5 ft x 3.5 in | 10,000 lb | 696 lb | $2,745.00 |



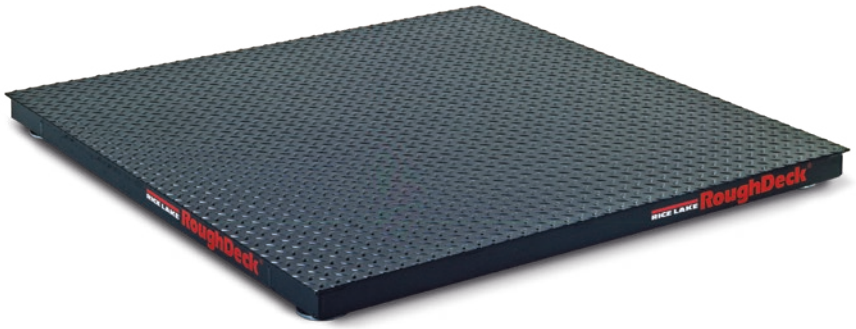


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# RoughDeck® HP-H

High Performance Heavy Capacity Floor Scale




## Specifications

**End Load Capacity:**
100% full scale at 20,000 lb
66% full scale at 30,000 lb

**Cable Length:**
20 ft (6.1 m) for connecting junction box to indicator

**Threaded Eyebolt:**
Hole (3/4-10NC) located in center of deck for easy lifting

**Warranty:**
RoughDeck HP-H weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001, Class III, 5,000 d
Measurement Canada AM-5284 (Only capacities greater than 10,000 kg)

## Standard Features

- Heavy-duty industrial design
- Structural steel channel frame
- Four NTEP Certified alloy steel, shear beam load cells
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Side-access junction box
- Rugged diamond safety treadplate deck
- Four adjustable mild steel SUREFOOT™ support feet

## APPROVALS

*Capacities greater than 10,000 kg*

FM C US APPROVED



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## Part Number/Price

| Part # | Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|---|
| **With Quick Connector** | **Without Quick Connector** | | | | |
| **NTEP Approved** | | | | | |
| **66474** | **67717** | 4 ft x 4 ft x 4 in | 20,000 lb (10,000 kg) | 601 lb | $3,150.00 |
| **66475** | **67718** | 4 ft x 5 ft x 4 in | 20,000 lb (10,000 kg) | 775 lb | $3,400.00 |
| **66476** | **67719** | 4 ft x 6 ft x 4 in | 20,000 lb (10,000 kg) | 926 lb | $3,600.00 |
| **66477** | **67720** | 4 ft x 7 ft x 4 in | 20,000 lb (10,000 kg) | 1,135 lb | $3,850.00 |
| **66478** | **67721** | 5 ft x 5 ft x 4 in | 20,000 lb (10,000 kg) | 926 lb | $3,725.00 |
| **66479** | **67722** | 5 ft x 6 ft x 4 in | 20,000 lb (10,000 kg) | 1,104 lb | $3,950.00 |
| **66480** | **67723** | 5 ft x 7 ft x 4 in | 20,000 lb (10,000 kg) | 1,377 lb | $4,150.00 |
| **66481** | **67724** | 6 ft x 6 ft x 4 in | 20,000 lb (10,000 kg) | 1,319 lb | $4,300.00 |
| **66482** | **67725** | 6 ft x 8 ft x 4 in | 20,000 lb (10,000 kg) | 1,861 lb | $5,150.00 |
| **66483** | **67726** | 7 ft x 9 ft x 4 in | 20,000 lb (10,000 kg) | 2,408 lb | $6,050.00 |
| **66484** | **67727** | 7 ft x 10 ft x 4 in | 20,000 lb (10,000 kg) | 2,959 lb | $7,150.00 |
| **66485** | **67728** | 8 ft x 10 ft x 4 in | 20,000 lb (10,000 kg) | 3,108 lb | $7,650.00 |
| **66486** | **67729** | 4 ft x 4 ft x 5 in | 30,000 lb (15,000 kg) | 675 lb | $3,500.00 |
| **66487** | **67730** | 4 ft x 5 ft x 5 in | 30,000 lb (15,000 kg) | 839 lb | $3,725.00 |
| **66488** | **67731** | 4 ft x 6 ft x 5 in | 30,000 lb (15,000 kg) | 1,071 lb | $3,950.00 |
| **66489** | **67732** | 4 ft x 7 ft x 5 in | 30,000 lb (15,000 kg) | 1,200 lb | $4,150.00 |
| **66490** | **67733** | 5 ft x 5 ft x 5 in | 30,000 lb (15,000 kg) | 1,021 lb | $4,050.00 |
| **66491** | **67734** | 5 ft x 7 ft x 5 in | 30,000 lb (15,000 kg) | 1,448 lb | $4,500.00 |
| **66492** | **67735** | 6 ft x 6 ft x 5 in | 30,000 lb (15,000 kg) | 1,438 lb | $4,600.00 |
| **66493** | **67736** | 7 ft x 10 ft x 5 in | 30,000 lb (15,000 kg) | 3,372 lb | $8,700.00 |
| **66494** | **67737** | 8 ft x 10 ft x 5 in | 30,000 lb (15,000 kg) | 3,699 lb | $9,200.00 |
| **Canadian Weights and Measures Approved** | | | | | |
| **197355** | **197365** | 4 ft x 4 ft x 5 in | 30,000 lb (15,000 kg) | 675 lb | $3,500.00 |
| **197356** | **197366** | 4 ft x 5 ft x 5 in | 30,000 lb (15,000 kg) | 839 lb | $3,725.00 |
| **197357** | **197367** | 4 ft x 6 ft x 5 in | 30,000 lb (15,000 kg) | 1,071 lb | $3,950.00 |
| **197358** | **197368** | 4 ft x 7 ft x 5 in | 30,000 lb (15,000 kg) | 1,200 lb | $4,150.00 |
| **197359** | **197369** | 5 ft x 5 ft x 5 in | 30,000 lb (15,000 kg) | 1,021 lb | $4,050.00 |
| **197360** | **197375** | 5 ft x 7 ft x 5 in | 30,000 lb (15,000 kg) | 1,448 lb | $4,500.00 |
| **197361** | **197376** | 6 ft x 6 ft x 5 in | 30,000 lb (15,000 kg) | 1,438 lb | $4,600.00 |
| **197363** | **197377** | 7 ft x 10 ft x 5 in | 30,000 lb (15,000 kg) | 3,372 lb | $8,700.00 |
| **197364** | **197378** | 8 ft x 10 ft x 5 in | 30,000 lb (15,000 kg) | 3,699 lb | $9,200.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Access ramps, pit frames, bumper guards and portability frames available | See end of section for details |
| **Consult** | Smooth deck instead of diamond safety tread plate | No charge |
| **40387** | Anchor plate set, mild steel, 20,000 lb capacity models (optional) | $48.00 |
| **40388** | Anchor plate set, mild steel, 30,000 lb capacity models (optional) | $48.00 |
| **Consult** | Four drilled deck holes for scale height adjustment | $40.00 |
| **19352** | RoughDeck floor stand for indicator, 36.3 in high, mild steel | $235.00 |
| **126384** | RoughDeck floor stand for indicator, 48 in high, mild steel | $260.00 |
| **Consult** | Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells and hardware | +$160.00 list price add-on |
| **Consult** | Mild steel deck with RL32218S-HE welded-seal IP69K stainless steel cFMus approved load cells and hardware | +$300.00 list price add-on |
| **Consult** | Epoxy paint | +$90.00 list price add on |
| **Consult** | Top access junction box | +$100.00 list price add-on |




www.ricelake.com | Phone: 800-472-6703

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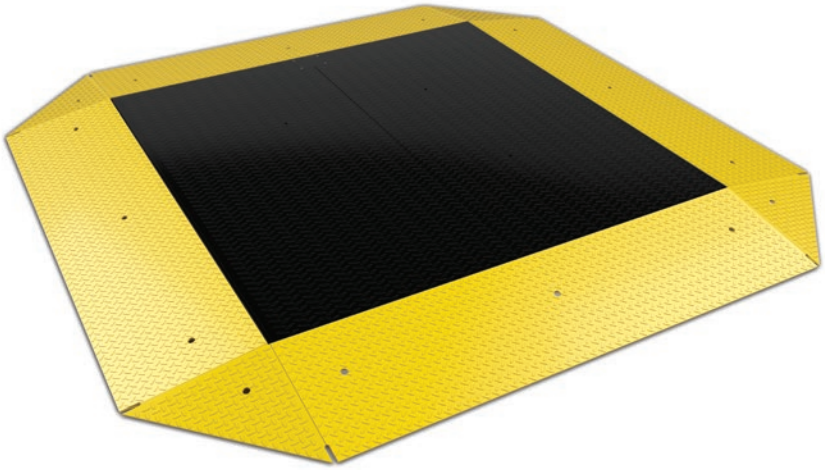




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# RoughDeck PC

Pancake Deck Cargo Scale



## Specifications

**End Load Capacity:**
100% full scale at 20,000 lb

**Cable Length:**
20 ft (6.1 m) for connecting junction box to indicator

**Threaded Eyebolt:**
Four holes (3/4-10NC)

**Warranty (limited):**
RoughDeck PC weldment five years, load cells two years, all other components one year

## Standard Features

- Top access JB4SS TuffSeal signal trim junction box
- Foot adjustment holes for leveling scale from above
- Four ball encapsulated feet
- Four IP66, alloy steel 10,000 lb load cells
- Epoxy paint for added protection. Ramps are painted yellow and scale is painted black to easily distinguish live weighing surface.
- 20 ft Survivor EL147HE hostile environment load cell cable to connect scale to indicator. Cable can exit scale/ramp from any corner.
- Scale and wrap around ramps to access scale from all sides.
- Ramps have integrated foot keeper plates to keep scale in check with ramps.
- Holes in ramps to access internal anchor tabs from above. 16 anchor bolts at 3/4 in included
- All surfaces, diamond tread

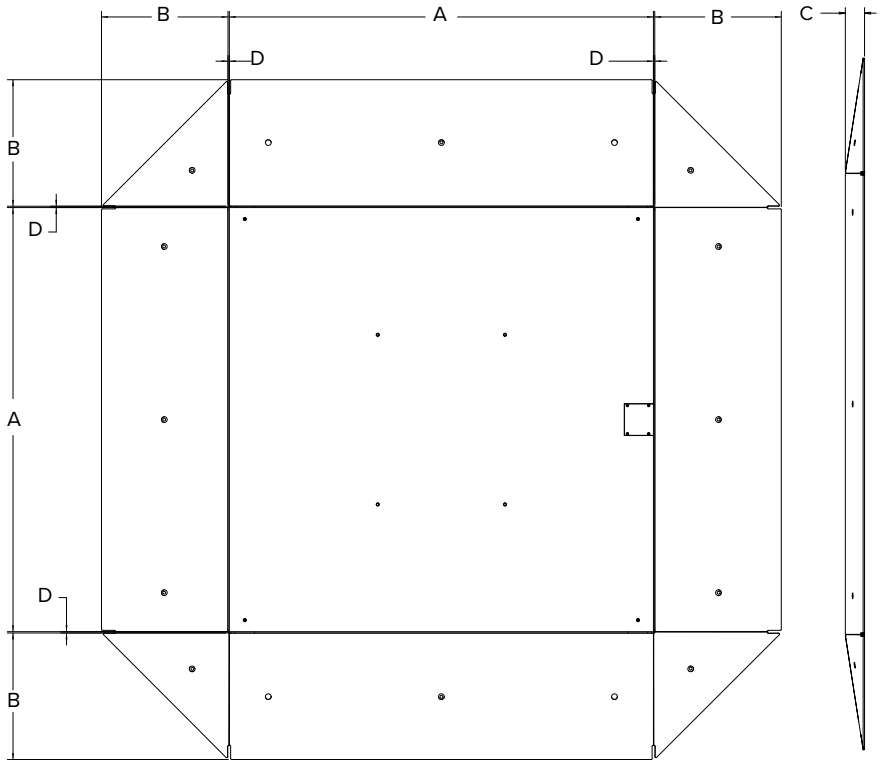
## Part Number/Price

| Part # | Overall Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **194338** | Scale: 10 ft x 10 ft x 4 3/8 in<br>Ramps: (4) 10 ft x 3 ft x 4 3/8 in<br>Corners: (4) 4 ft 1 in x 3 ft x 4 3/8 in | 20,000 lb | 6,800 lb | $17,650.00 |



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| Dimensions | | | |
|---|---|---|---|
| A | 120 in | C | 4.37 in |
| B | 35.8 in | D | 0.38 in |









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# RoughDeck® CS

Coil Floor Scale




## Specifications

**Capacities:**
Scale Capacity | Load Cell and Mount Capacity
40,000 lb | Qty (4) 50,000 lb each
60,000 lb | Qty (4) 50,000 lb each
80,000 lb | Qty (4) 75,000 lb each

**Warranty:**
RoughDeck CS weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP CC 11-068, Class III, 5,000 d

## Standard Features

- Capacities: 40,000 lb to 80,000 lb, consult factory for custom capacities
- Deck thickness: 1/2 in smooth top plate
- JB4SS Tuffseal® signal trim junction box
- MVS self-checking mounting system, top access to load cells
- Black epoxy paint
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- Ships unassembled with (8) concrete anchor bolts

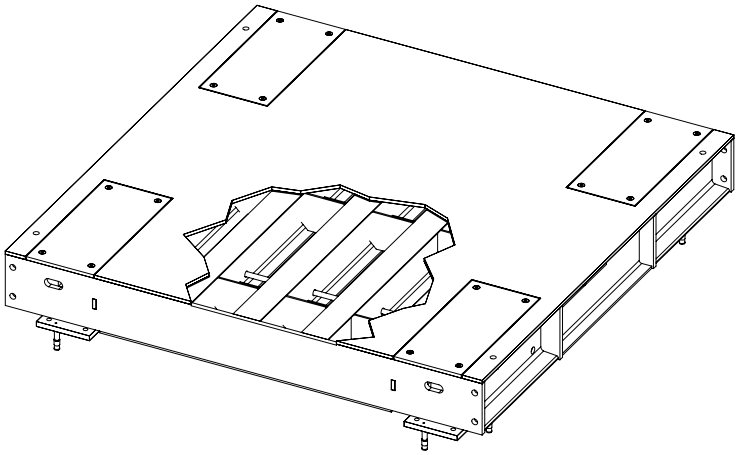
**APPROVALS**

## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **107493** | 5 ft x 5 ft x 11 in | 40,000 lb (20,000 kg) | 1,900 lb | $10,925.00 |
| **107494** | 5 ft x 5 ft x 11 in | 60,000 lb (30,000 kg) | 1,900 lb | $10,925.00 |
| **107495** | 5 ft x 5 ft x 11 in | 80,000 lb (40,000 kg) | 1,900 lb | $10,925.00 |
| **107496** | 6 ft x 6 ft x 11 in | 40,000 lb (20,000 kg) | 2,575 lb | $12,650.00 |
| **107497** | 6 ft x 6 ft x 11 in | 60,000 lb (30,000 kg) | 2,575 lb | $12,650.00 |
| **107498** | 6 ft x 6 ft x 11 in | 80,000 lb (40,000 kg) | 2,575 lb | $12,650.00 |

## Options/Accessories

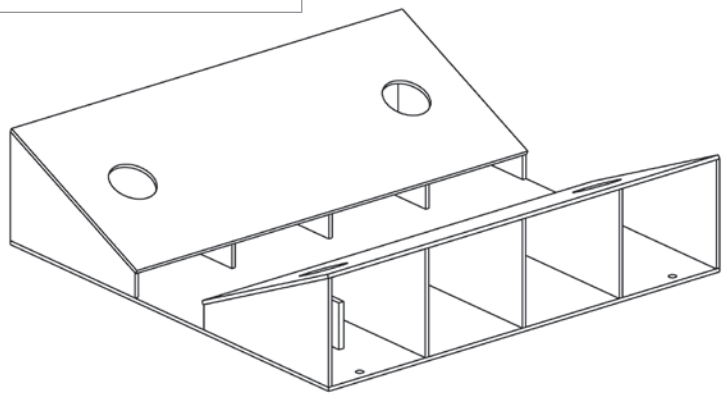
| Part # | Description | Price |
|---|---|---|
| **114678** | V-Top coil cradle (5 ft x 5 ft scale) | $2,875.00 |
| **114684** | V-Top coil cradle (6 ft x 6 ft scale) | $3,565.00 |
| **Consult** | Pit coping | Consult |



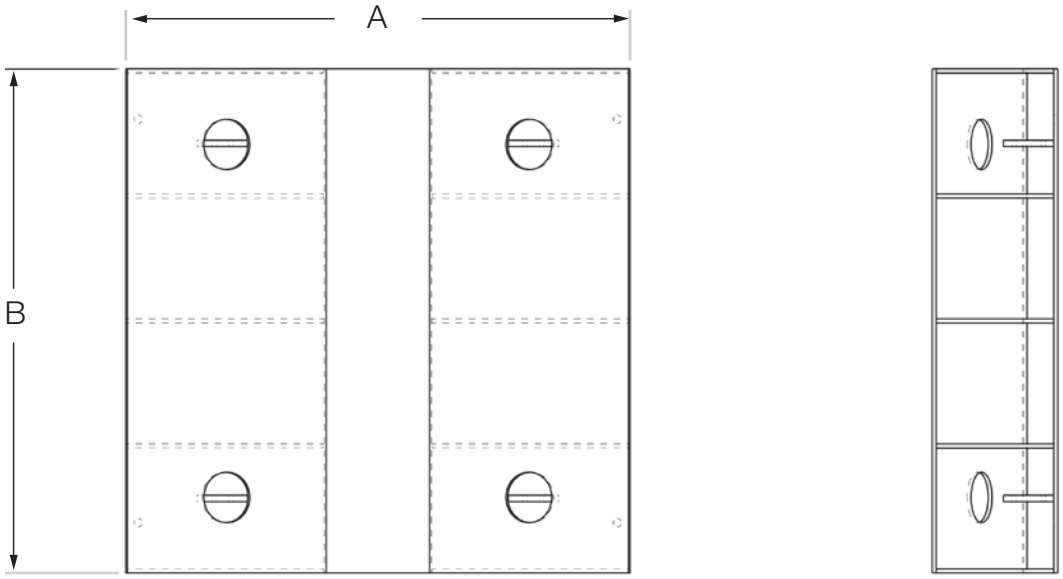


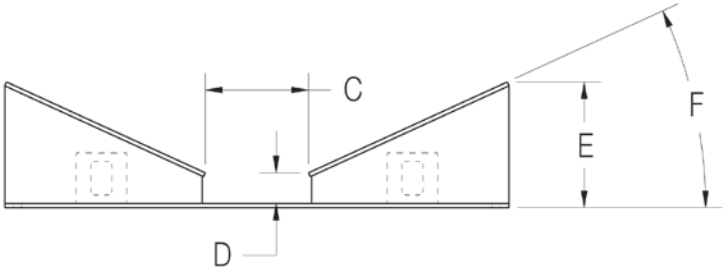
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| Dimensions | | | |
|---|---|---|---|
| **5 ft x 5 ft V-Top Coil Cradle** | | | |
| A | 60 in | D | 3.64 in |
| B | 60 in | E | 14.95 in |
| C | 12.30 in | F | 25° |
| **6 ft x 6 ft V-Top Coil Cradle** | | | |
| A | 72 in | D | 3.99 in |
| B | 72 in | E | 14.96 in |
| C | 22.62 in | F | 24° |



*V-Top Coil Cradle*



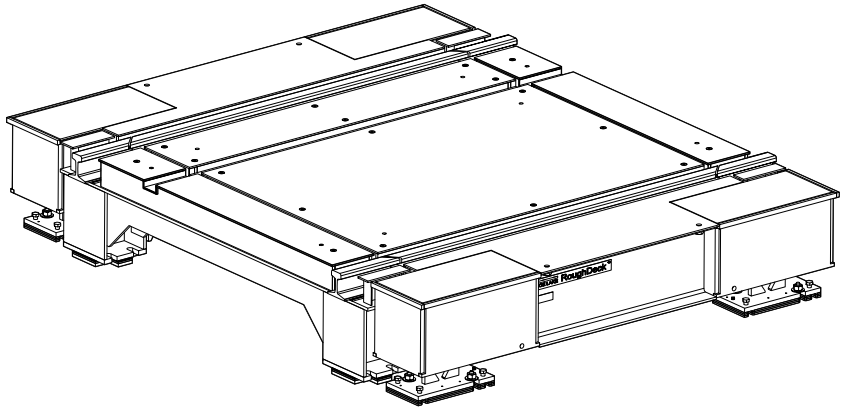





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# RoughDeck® CS Rail Car Coil Scale

Top Access



Scale Capacity: _____

Rail Size: _____

Is this a new installation or existing: ☐ New ☐ Existing

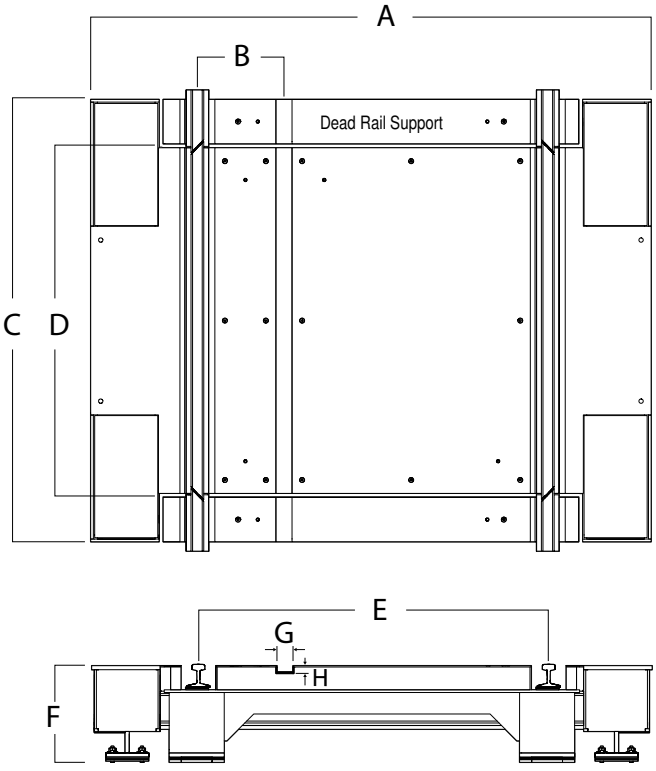
Size of Cart: _____

Size of Wheel Base: _____

Is there a cable through required: ☐ Yes ☐ No

Will it be grout or shim installation: ☐ Grout ☐ Shim

| Scale Size | |
|---|---|
| **A** (PIT WIDTH) | |
| **B** (RAIL TO CHANNEL ON CENTER) | |
| **C** (PIT OPENING) | |
| **D** (SCALE LENGTH) | |
| **E** (RAIL WIDTH ON CENTER) | |
| **F** (PIT DEPTH) | |
| **G** (CABLE CHANNEL WIDTH) | |
| **H** (CABLE CHANNEL DEPTH) | |

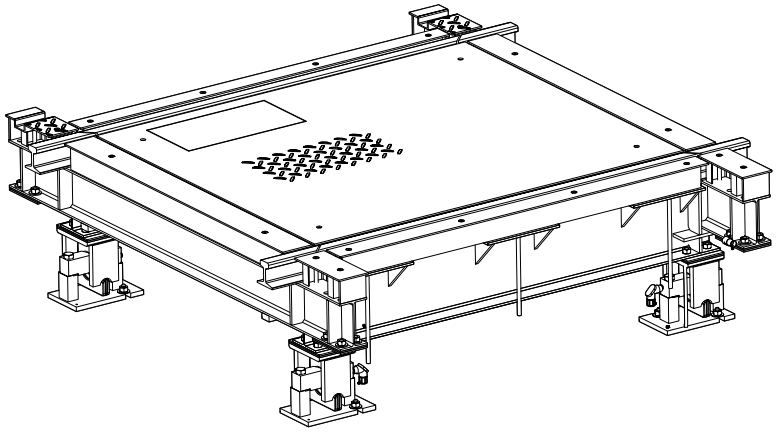


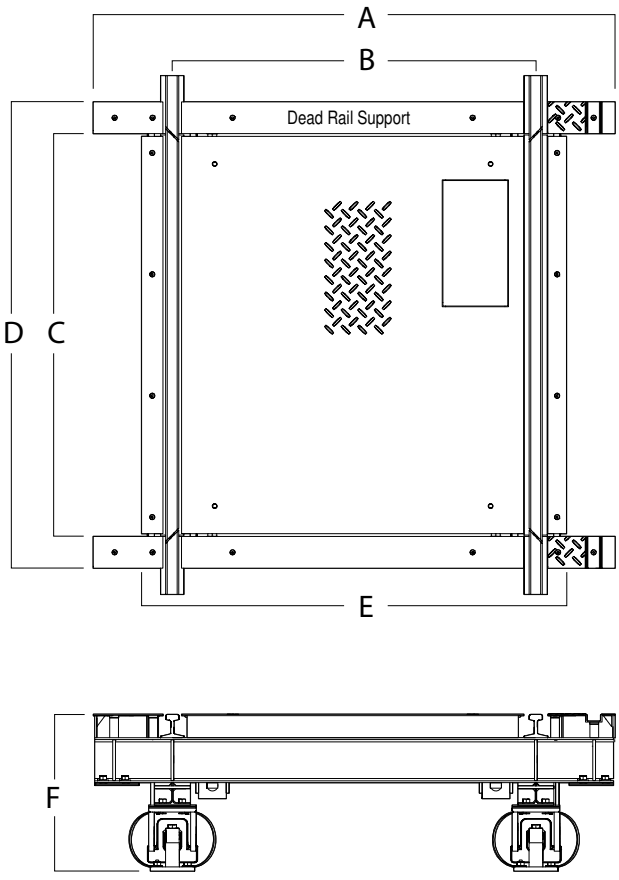



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# RoughDeck® CS Rail Car Coil Scale

Under Beam Mount






Scale Capacity: _____

Rail Size: _____

Is this a new installation or existing: ☐ New ☐ Existing

Size of Cart: _____

Size of Wheel Base: _____

Will it be grout or shim installation: ☐ Grout ☐ Shim

| Scale Size | |
|---|---|
| **A** (DEAD RAIL BEAM) | |
| **B** (RAIL WIDTH ON CENTER) | |
| **C** (SCALE LENGTH) | |
| **D** (PIT OPENING) | |
| **E** (SCALE WIDTH) | |
| **F** (PIT DEPTH) | |



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# RoughDeck® SS

Stainless Steel Floor Scale




## Specifications

**End Load Capacity:**
200% full scale at 1,000 lb
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1 m) (for connecting junction box to indicator)

**Threaded Eyebolt:**
Hole (1/2-20 NF) located in center of deck for easy lifting

**Warranty:**
RoughDeck SS weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001, Class III 5,000 d
Measurement Canada AM-4827, Class III 5,000 d

## Standard Features

- Rugged non-corrosive design
- 304 stainless steel construction
- Rigid stainless steel channel frame
- Four stainless steel, NTEP Certified, IP66 shear beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment load cell cable
- Side access junction box
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Smooth stainless steel deck
- Four adjustable stainless steel SUREFOOT™ support feet

### APPROVALS

## Part Number/Price

| NTEP Approved Part # | Measurement Canada Approved Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|---|
| **18663**† | **191958**† | 2.5 ft x 2.5 ft x 3.5 in | 2,000 lb (1,000 kg) | 173 lb | $2,645.00 |
| **46239**† | **191959**† | 3 ft x 3 ft x 3.5 in | 1,000 lb (500 kg) | 232 lb | $2,975.00 |
| **18664**† | **191960**† | 3 ft x 3 ft x 3.5 in | 2,000 lb (1,000 kg) | 232 lb | $2,975.00 |
| **46241** | **191961** | 4 ft x 4 ft x 3.5 in | 1,000 lb (500 kg) | 375 lb | $4,035.00 |
| **18665** | **191962** | 4 ft x 4 ft x 3.5 in | 5,000 lb (2,500 kg) | 375 lb | $4,035.00 |
| **18666** | **191964** | 4 ft x 4 ft x 3.5 in | 10,000 lb (5,000 kg) | 490 lb | $5,935.00 |
| **18667** | **191965** | 4 ft x 5 ft x 3.5 in | 5,000 lb (2,500 kg) | 437 lb | $4,605.00 |
| **18668** | **191966** | 4 ft x 5 ft x 3.5 in | 10,000 lb (5,000 kg) | 567 lb | $6,875.00 |
| **18671** | **191967** | 5 ft x 5 ft x 3.5 in | 5,000 lb (2,500 kg) | 541 lb | $5,145.00 |
| **18672** | **191968** | 5 ft x 5 ft x 3.5 in | 10,000 lb (5,000 kg) | 696 lb | $7,780.00 |
| **18675** | **191969** | 5 ft x 7 ft x 3.5 in | 5,000 lb (2,500 kg) | 734 lb | $7,285.00 |
| **18676** | **191970** | 5 ft x 7 ft x 3.5 in | 10,000 lb (5,000 kg) | 929 lb | $10,195.00 |

† *Not recommended for use with pallet jacks*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Access ramps, pit frames, bumper guards and portability frames available | See end of section for details |
| **18778** | Floor anchor plates, stainless steel (set of 2) | $45.00 |
| **Consult** | Four drilled deck holes for scale height adjustment | $40.00 |
| **Consult** | Top access junction box | +$100.00 list price add-on |
| **Consult** | Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware | +$320.00 list price add-on |
| **28740** | RoughDeck floor stand for indicator, 36.3 in high, stainless steel | $310.00 |
| **Consult** | Stainless steel diamond tread plate safety deck | Consult |
| **Consult** | Forklift channel option (up to 5 ft x 7 ft, 10,000 lb, accommodates fork tines no larger than (W x H) 5 in x 2 in, fork entry is on opposite side of junction box location | +$1,500.00 list price add-on |



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# RoughDeck® HE

Hostile Environment Stainless Steel Floor Scale

## Specifications

**End Load Capacity:**
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1 m)

**Threaded Eyebolt:**
Hole (1/2-20 NF) located in center of deck for easy lifting

**Warranty:**
RoughDeck HE weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP Certified, CC 92-001 Class III 5,000 d




## Standard Features

- Rugged washdown design
- 304 stainless steel construction
- Rigid 304 stainless steel channel frame
- Four stainless steel, hermetically sealed, IP69K shear beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment load cell cable
- Remote TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card for remote mounting
- Load cells protected on all four sides
- Smooth stainless steel deck

**APPROVALS**

NTEP

FM C US APPROVED

## Part Number/Price

| NTEP Approved Part # | Measurement Canada Approved Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|---|
| **18680**† | **193293** | 2.5 ft x 2.5 ft x 3.5 in | 2,000 lb (1,000 kg) | 173 lb | $2,965.00 |
| **18681**† | **193294** | 3 ft x 3 ft x 3.5 in | 2,000 lb (1,000 kg) | 232 lb | $3,295.00 |
| **18682** | **193296** | 4 ft x 4 ft x 3.5 in | 5,000 lb (2,500 kg) | 375 lb | $4,355.00 |
| **18683** | **193297** | 4 ft x 4 ft x 3.5 in | 10,000 lb (5,000 kg) | 490 lb | $6,255.00 |
| **18684** | **193298** | 4 ft x 5 ft x 3.5 in | 5,000 lb (2,500 kg) | 437 lb | $4,925.00 |
| **18685** | **193307** | 4 ft x 5 ft x 3.5 in | 10,000 lb (5,000 kg) | 567 lb | $7,195.00 |
| **18688** | **193308** | 5 ft x 5 ft x 3.5 in | 5,000 lb (2,500 kg) | 541 lb | $5,465.00 |
| **18689** | **193309** | 5 ft x 5 ft x 3.5 in | 10,000 lb (5,000 kg) | 696 lb | $8,100.00 |
| **18692** | **193310** | 5 ft x 7 ft x 3.5 in | 5,000 lb (2,500 kg) | 734 lb | $7,605.00 |
| **18693** | **193311** | 5 ft x 7 ft x 3.5 in | 10,000 lb (5,000 kg) | 929 lb | $10,515.00 |

† *Not recommended for use with pallet jacks*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Access ramps, pit frames, bumper guards and portability frames available | See end of section for details |
| **18778** | Floor anchor plates, stainless steel (set of two) | $45.00 |
| **Consult** | Four drilled deck holes for scale height adjustment | $40.00 |
| **28740** | RoughDeck floor stand for indicator, 36.3 in high, stainless steel | $310.00 |
| **Consult** | Stainless steel diamond treadplate safety deck | Consult |
| **Consult** | Forklift channel option (up to 5 ft x 7 ft, 10,000 lb, accommodates fork tines no larger than (W x H) 5 in x 2 in, fork entry is on opposite side of junction box location | +$1,500.00 list price add-on |





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# AutoLift HE

Pit-type, Hostile Environment Stainless Steel Lift Floor Scale



## Specifications

**End Load Capacity:**
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1 m)

**Welding:**
Stitch, consult factory if continuous is required

**Threaded Eyebolt:**
Hole (1/2-20 NF) located in center of deck for easy lifting

**Warranty:**
AutoLift HE weldment five years, load cells two years, all other components one year

## Standard Features

- Includes scale, pit frame, pit coping and pneumatic control box
- Rugged washdown design
- 304 stainless steel construction
- Rigid 304 stainless steel channel frame
- Meets HACCP requirements
- Manual, drop-in-place, safety bar
- Four stainless steel, hermetically sealed, IP69K shear beam load cells
- Load cells protected on all four sides
- 20 ft of SURVIVOR® hostile environment load cell cable
- Remote TuffSeal® JB4SS stainless steel NEMA Type 4X junction box
- Smooth stainless steel deck
- Four adjustable stainless steel SUREFOOT™ support feet
- Requires 85-100 psi air pressure, opens 43 degrees
- Air lines and pneumatic regulator included; conduit for load cell cable from junction box to indicator is not included

## APPROVALS

FM APPROVED

*The pneumatic control box must be located in the safe area.*

## Part Number/Price

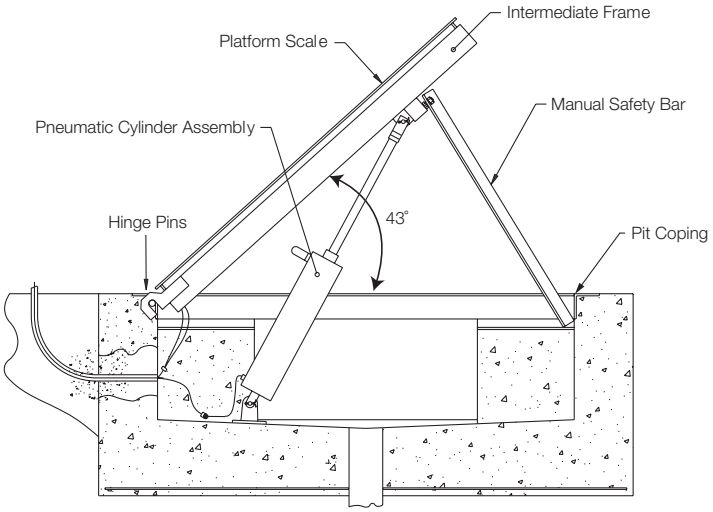
| Part # | Size (W x L) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **42207** | 4ft x 4 ft | 2,000 lb (1,000 kg) | 640 lb | $13,995.00 |
| **42208** | 4 ft x 4 ft | 5,000 lb (2,500 kg) | 640 lb | $13,995.00 |
| **42209** | 4 ft x 4 ft | 10,000 lb (5,000 kg) | 750 lb | $14,495.00 |
| **42211** | 5 ft x 5 ft | 2,000 lb (1,000 kg) | 830 lb | $16,795.00 |
| **42212** | 5 ft x 5 ft | 5,000 lb (2,500 kg) | 830 lb | $16,795.00 |
| **42213** | 5 ft x 5 ft | 10,000 lb (5,000 kg) | 1,050 lb | $17,295.00 |

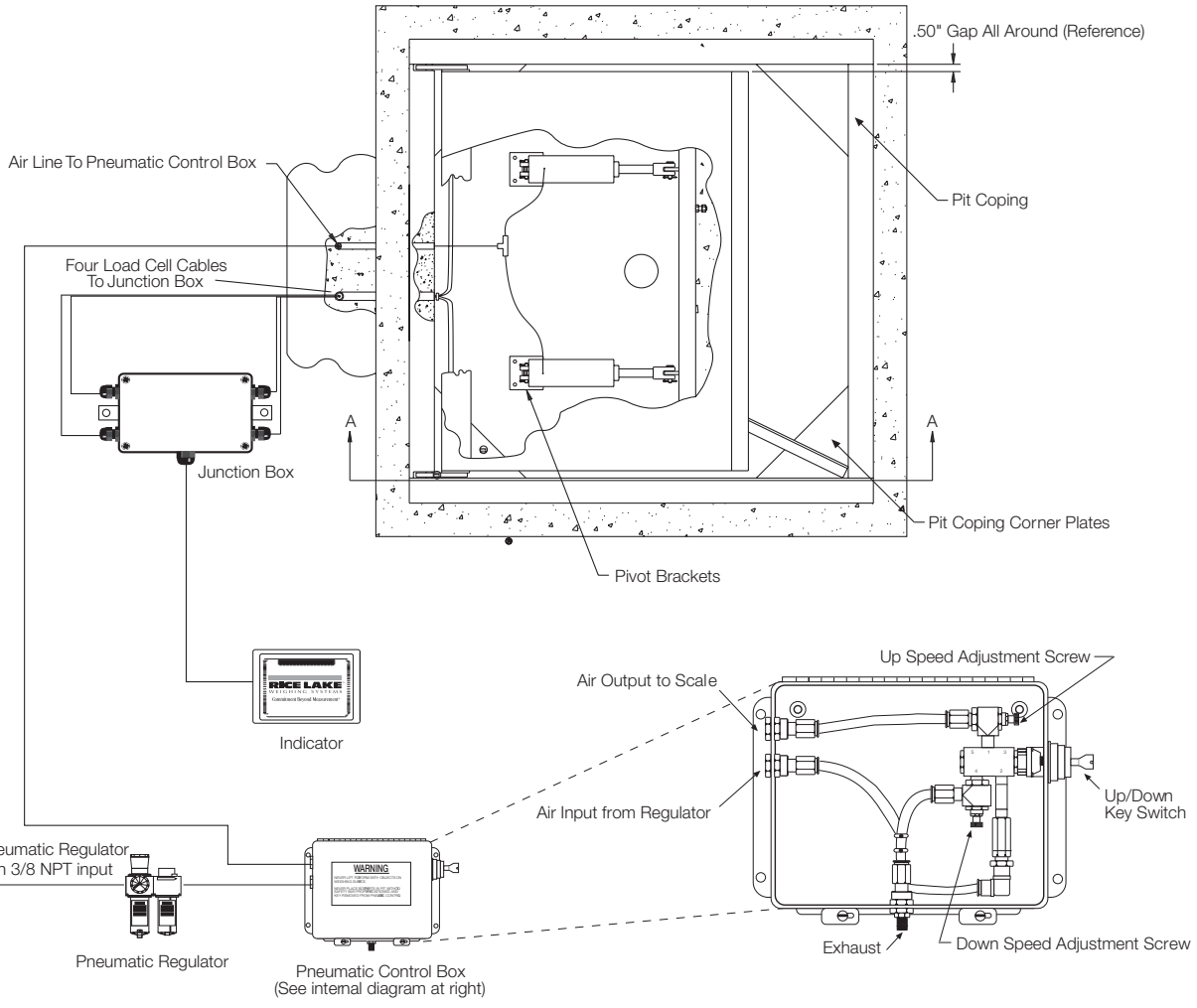
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Four drilled deck holes for scale height adjustment | $40.00 |
| **28740** | Floor stand for indicator, 36.3 in high stainless steel | $310.00 |



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# RoughDeck® QC-X

Quick Clean Extreme Lift Floor Scale with Solid Plate Base




## Specifications

**End Load Capacity:**
100% full scale at 5,000 lb
80% full scale at 10,000 lb

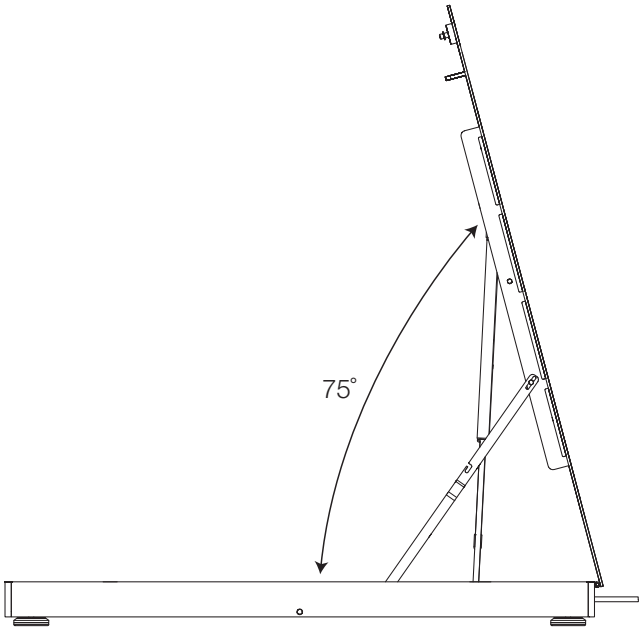
**Warranty:**
RoughDeck QC-X weldment five years, load cells two years, all other components one year

## Standard Features

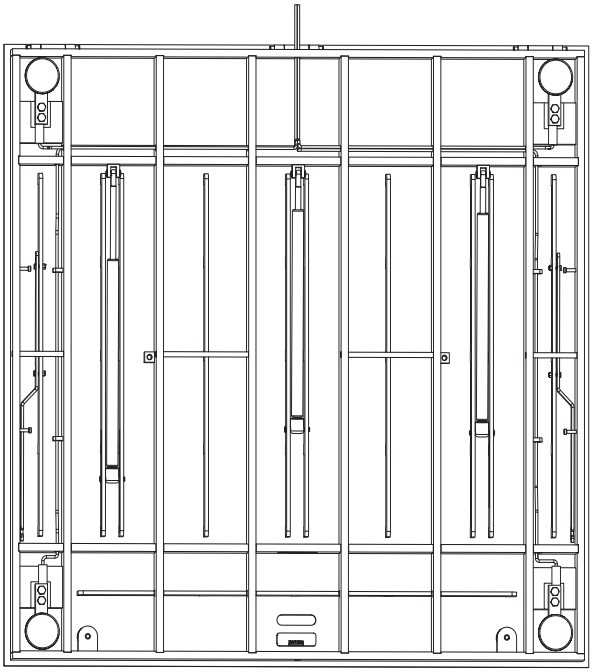
- Rugged washdown design, rigid 304 stainless steel frame constructed with continuous welds
- Meets HACCP requirements
- Manual drop-in-place safety bars
- Four stainless steel, hermetically sealed, IP69K shear-beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment cable for connecting junction box to indicator
- Remote TuffSeal® JB4SS stainless steel NEMA Type 4X junction box can be mounted up to 15 ft away
- 1/4 in top plate
- Four adjustable stainless steel SUREFOOT™ support feet
- Top plate opens 75 degrees
- Tool-less top plate lock downs
- Top plate available with a smooth deck or diamond treadplate
- Two 1/2-20NF threaded eyebolt holes for lifting scale into pit frame

## APPROVALS

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*Upright position*



*Underdeck View*



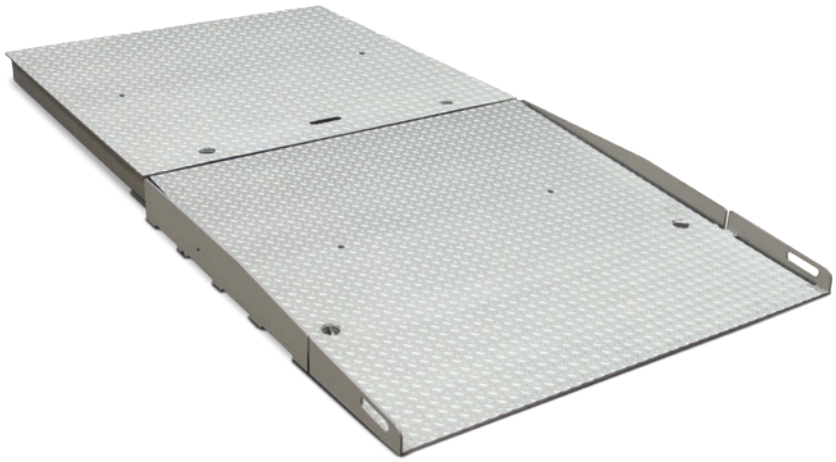
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## Part Number/Price

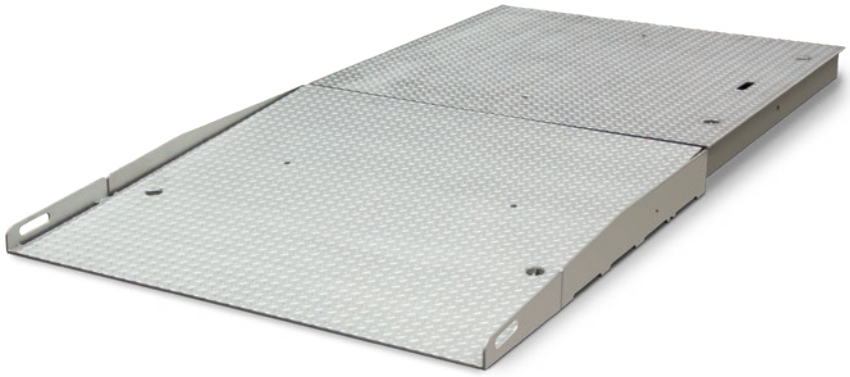
| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Smooth Top Plate** | | | | |
| **175686** | 4 ft x 4 ft x 4.625 in | 5,000 lb (2,500 kg) | 650 lb | $8,995.00 |
| **175689** | 4 ft x 4 ft x 4.625 in | 10,000 lb (5,000 kg) | 650 lb | $8,995.00 |
| **175694** | 5 ft x 5 ft x 4.625 in | 5,000 lb (2,500 kg) | 950 lb | $11,495.00 |
| **175695** | 5 ft x 5 ft x 4.625 in | 10,000 lb (5,000 kg) | 950 lb | $11,495.00 |
| **Diamond Tread Top Plate** | | | | |
| **175688** | 4 ft x 4 ft x 4.625 in | 5,000 lb (2,500 kg) | 650 lb | $9,875.00 |
| **175690** | 4 ft x 4 ft x 4.625 in | 10,000 lb (5,000 kg) | 650 lb | $9,875.00 |
| **175696** | 5 ft x 5 ft x 4.625 in | 5,000 lb (2,500 kg) | 950 lb | $12,870.00 |
| **175697** | 5 ft x 5 ft x 4.625 in | 10,000 lb (5,000 kg) | 950 lb | $12,870.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **28740** | RoughDeck floor stand for indicator, 36.3 in high, stainless steel | $310.00 |
| **18778** | Floor anchor plates, stainless steel (set of two) | $45.00 |
| **Pit Frames (W x L)** | | |
| **175691** | 4 ft x 4 ft | $1,795.00 |
| **175698** | 5 ft x 5 ft | $2,150.00 |
| **Ramps (Diamond Treadplate Standard)** | | |
| **175692** | 4 ft x 3 ft x 4.625 in, fits hinge/handhole side | $3,125.00 |
| **175693** | 4 ft x 4 ft x 4.625 in, fits hinge/handhole side | $3,475.00 |
| **175699** | 5 ft x 3 ft x 4.625 in, fits hinge/handhole side | $3,475.00 |
| **175700** | 5 ft x 4 ft x 4.625 in, fits hinge/handhole side | $3,825.00 |
| **178840** | 4 ft x 3 ft x 4.625 in, fits side of scale | $3,125.00 |
| **178849** | 4 ft x 4 ft x 4.625 in, fits side of scale | $3,475.00 |
| **178850** | 5 ft x 3 ft x 4.625 in, fits side of scale | $3,475.00 |
| **178851** | 5 ft x 4 ft x 4.625 in, fits side of scale | $3,825.00 |



*Ramp fits hinge/handhole side*



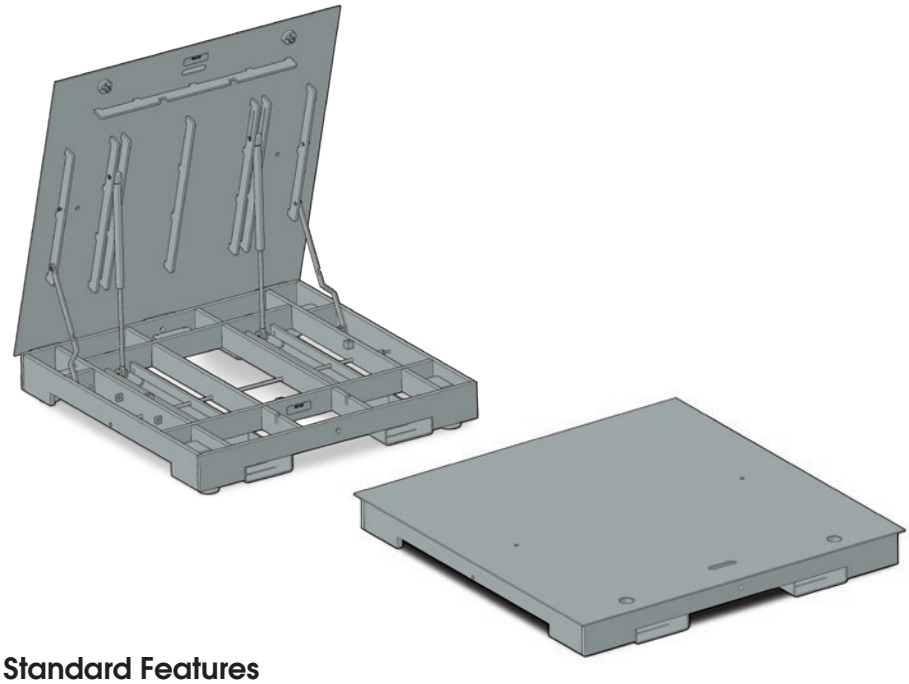
*Ramp fits side of scale*




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# NEW
# RoughDeck® QC-XP

Quick Clean Extreme Portable Solid Base Plate Floor Scale



## Specifications

**End Load Capacity:**
100% full scale at 5,000 lb
80% full scale at 10,000 lb

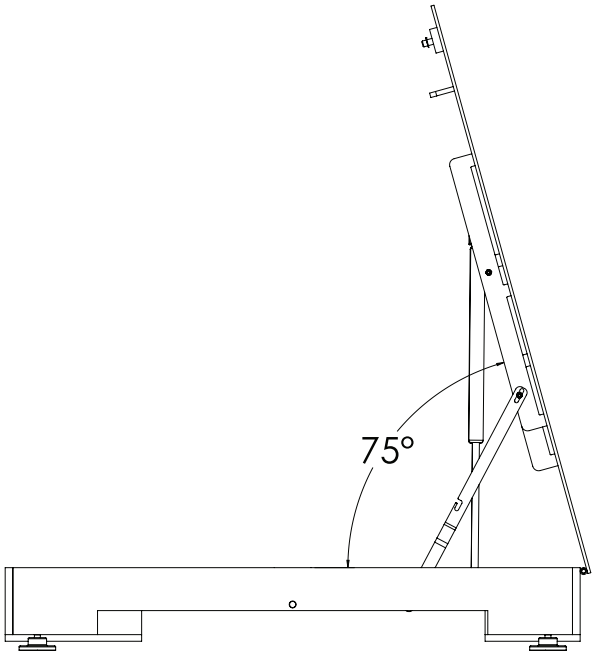
**Warranty:**
RoughDeck QC-XP weldment five years,
load cells two years, all other components, one year

## Standard Features

- Designed with forklift pockets allowing the scale to be portable
- Rugged washdown design, rigid 304 stainless steel frame constructed with continuous welds
- Meets HACCP requirements
- Manual drop-in-place safety bars
- Four stainless steel, hermetically sealed, IP69K shear-beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment cable for connecting junction box to indicator
- Internal mounted TuffSeal® JB4SS stainless steel NEMA Type 4X junction box
- 1/4 in top plate
- Four adjustable stainless steel SUREFOOT™ support feet
- Top plate opens 75 degrees
- Tool-less top plate lock downs
- Top plate available with a smooth deck or diamond treadplate
- Two 1/2-20NF threaded eyebolt holes for lifting scale into pit frame

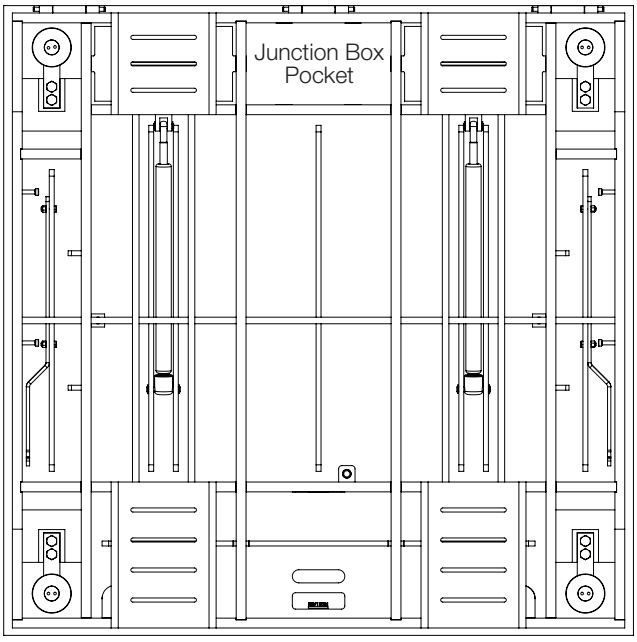
## APPROVALS

FM APPROVED




*Upright position*

Forklift pocket dimensions are 2.25" tall x 7.5" wide




*Underdeck View*



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# NEW
# RoughDeck® QC-XP
Quick Clean Extreme Portable Solid Base Plate Floor Scale

## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Smooth Top Plate** | | | | |
| **193283** | 4ft x 4ft x 7in | 5,000 lb (2,500 kg) | | $11,095.00 |
| **193284** | 4ft x 4ft x 7in | 10,000 lb (5,000 kg) | | $11,095.00 |
| **Diamond Tread Top Plate** | | | | |
| **193287** | 4ft x 4ft x 7in | 5,000 lb (2,500 kg) | | $11,975.00 |
| **193288** | 4ft x 4ft x 7in | 10,000 lb (5,000 kg) | | $11,975.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **28740** | RoughDeck floor stand for indicator, 36.3 in high, stainless steel | $310.00 |
| **18778** | Floor anchor plates, stainless steel (set of two) | $45.00 |





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# RoughDeck® QC

Quick Clean Stainless Steel Lift Floor Scale



*Standard RoughDeck QC is not designed for fork truck traffic or point loading. Please consult factory for pricing on RoughDeck QC special if your application involves either.*

## Specifications

**End Load Capacity:**
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1 m) (for connecting junction box to indicator)

**Remote Junction Box:**
Stainless steel enclosure can be located up to 10 ft away from scale

**Welding:**
Stitch, consult if continuous is required

**Threaded Eyebolt Hole:**
1/2-20 NF located in center of deck for easy lifting

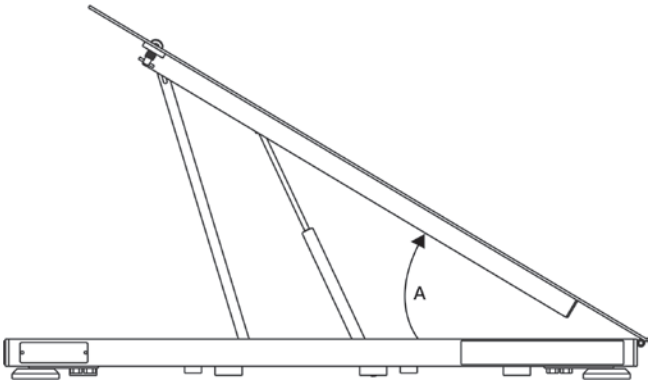
**Warranty:**
RoughDeck QC weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001, Class III 5,000 d

## Standard Features

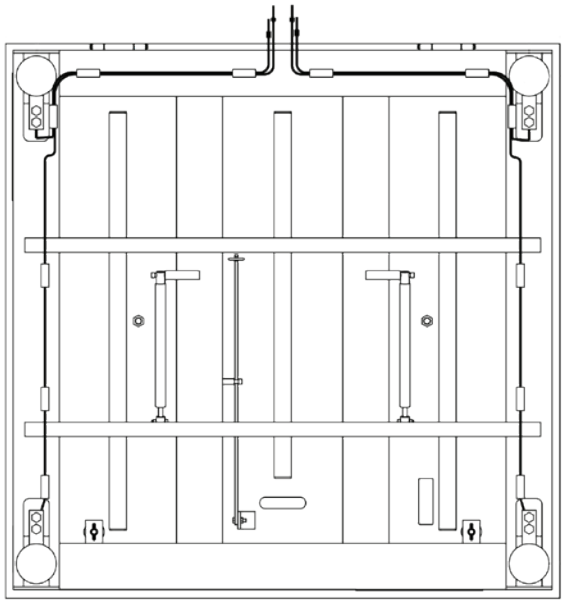
- Rugged washdown design
- Smooth, 304 stainless steel top deck
- Rigid 304 stainless steel tube frame
- Meets HACCP requirements
- Manual drop-in-place safety bar
- Four stainless steel, hermetically sealed, IP69K shear-beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment load cell cable
- Remote TuffSeal® JB4SS stainless steel NEMA Type 4X junction box
- 3/16 in thick smooth top plate
- 4 adjustable stainless steel SUREFOOT™ support feet

## APPROVALS




*(Upright position)*

*(Hinges are located on "L" dimension)*



*Underdeck View*

| Dimensions | | |
|---|---|---|
| | Size of Scale | Degrees |
| A | 2.5 ft x 2.5 ft | 37 |
| | 3 ft x 3 ft | 30 |
| | 4 ft x 4 ft | 30 |
| | 4 ft x 5 ft | 30 |
| | 4 ft x 6 ft | 26 |
| | 5 ft x 5 ft | 25 |
| | 5 ft x 7 ft | 24 |



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## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **50402** | 2.5 ft x 2.5 ft x 3.5 in | 2,000 lb (1,000 kg) | 158 lb | $5,365.00 |
| **50403** | 3 ft x 3 ft x 3.5 in | 2,000 lb (1,000 kg) | 208 lb | $5,815.00 |
| **50404** | 4 ft x 4 ft x 3.5 in | 2,000 lb (1,000 kg) | 338 lb | $6,465.00 |
| **50405** | 4 ft x 4 ft x 3.5 in | 5,000 lb (2,500 kg) | 338 lb | $6,465.00 |
| **50406** | 4 ft x 4 ft x 4.5 in | 10,000 lb (5,000 kg) | 447 lb | $6,915.00 |
| **50407** | 4 ft x 5 ft x 3.5 in | 2,000 lb (1,000 kg) | 406 lb | $7,130.00 |
| **50408** | 4 ft x 5 ft x 4.5 in | 5,000 lb (2,500 kg) | 406 lb | $7,130.00 |
| **50409** | 4 ft x 5 ft x 4.5 in | 10,000 lb (5,000 kg) | 540 lb | $7,790.00 |
| **50410** | 4 ft x 6 ft x 4.5 in | 2,000 lb (1,000 kg) | 477 lb | $7,790.00 |
| **50411** | 4 ft x 6 ft x 4.5 in | 5,000 lb (2,500 kg) | 477 lb | $7,790.00 |
| **50412** | 4 ft x 6 ft x 5.5 in | 10,000 lb (5,000 kg) | 637 lb | $8,465.00 |
| **50413** | 5 ft x 5 ft x 4.5 in | 2,000 lb (1,000 kg) | 478 lb | $7,755.00 |
| **50414** | 5 ft x 5 ft x 4.5 in | 5,000 lb (2,500 kg) | 478 lb | $7,755.00 |
| **50415** | 5 ft x 5 ft x 4.5 in | 10,000 lb (5,000 kg) | 637 lb | $9,595.00 |
| **50416** | 5 ft x 7 ft x 5.5 in | 2,000 lb (1,000 kg) | 705 lb | $10,290.00 |
| **50417** | 5 ft x 7 ft x 5.5 in | 5,000 lb (2,500 kg) | 705 lb | $10,290.00 |
| **50418** | 5 ft x 7 ft x 5.5 in | 10,000 lb (5,000 kg) | 908 lb | $11,390.00 |

## Options/Accessories

| Part # | Size (W x L x H) | Est. Weight | Price |
|---|---|---|---|
| **28740** | RoughDeck floor stand for indicator, 36.3 in high, stainless steel | | $310.00 |
| **Consult** | Stainless steel diamond treadplate safety deck | | Consult |
| **18778** | Floor anchor plates, stainless steel (set of two) | | $45.00 |





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# RoughDeck® QC

Access Ramps and Pit Frames

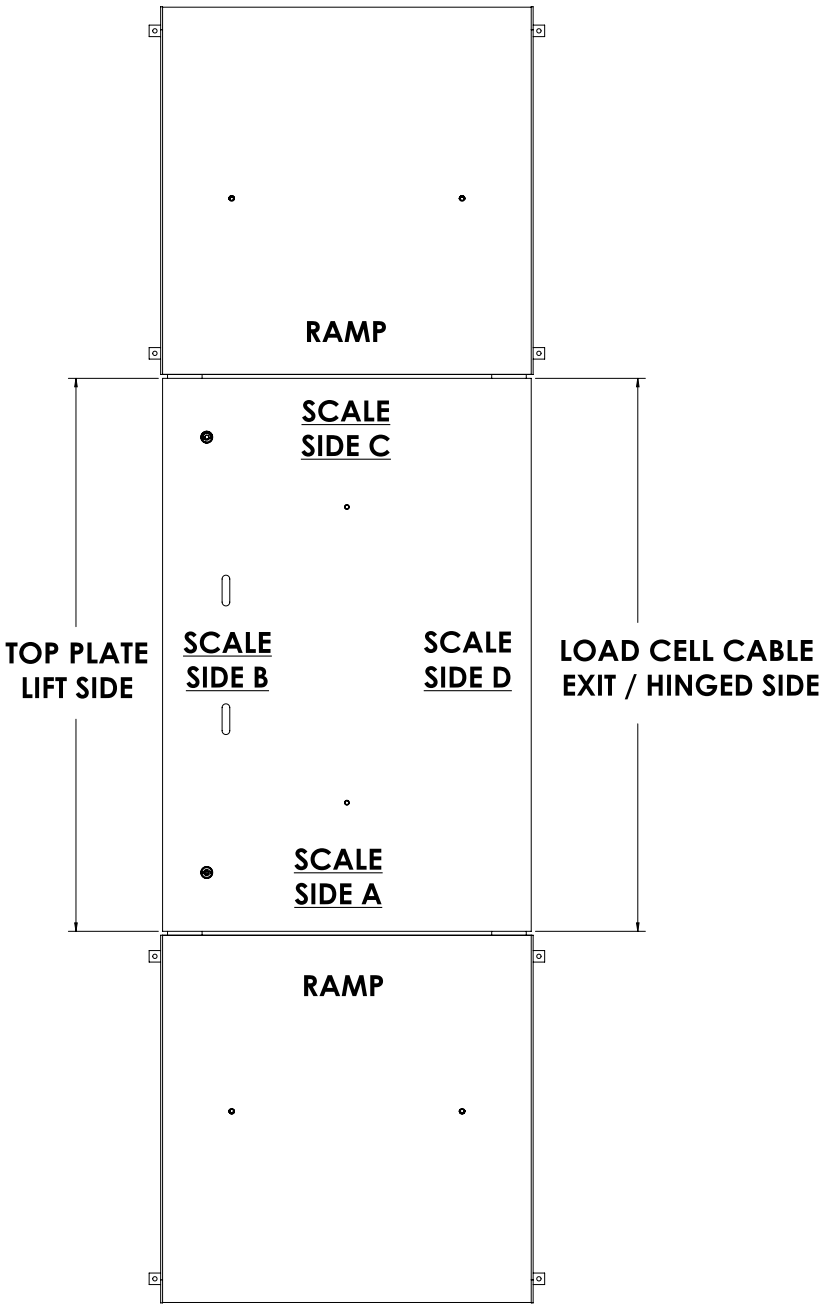
## Part Number/Price

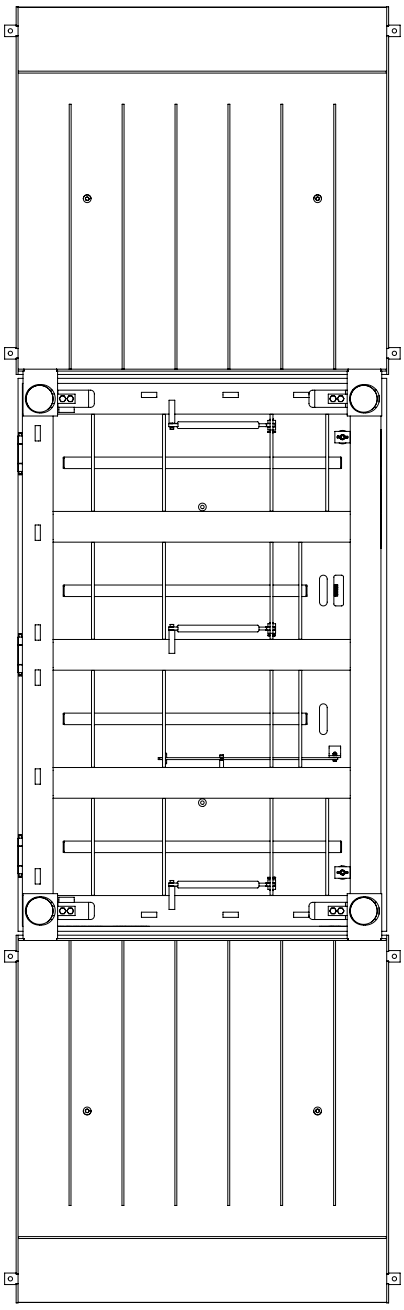
| Part # | Size (W x L x H) | Est. Weight | Price |
|---|---|---|---|
| **Access Ramps (Diamond Treadplate Standard) (W x L x H)** | | | |
| **69193** | 2.5 ft x 4.0 ft x 3.5 in (works with PN 50402) | 152 lb | $1,335.00 |
| **69194** | 3.0 ft x 4.0 ft x 3.5 in (works with PN 50403) | 177 lb | $1,335.00 |
| **69195** | 4.0 ft x 4.0 ft x 3.5 in (works with PN 50404, 50405 and 50407) | 224 lb | $1,855.00 |
| **69217** | 4.0 ft x 4.0 ft x 4.5 in (works with PN 50406, 50408, 50410 and 50411) | 234 lb | $1,875.00 |
| **69218** | 4.0 ft x 4.0 ft x 4.5 in (works with PN 50409) | 234 lb | $1,875.00 |
| **69222** | 4.0 ft x 5.0 ft x 5.5 in (works with PN 50412) | 330 lb | $2,420.00 |
| **69219** | 5.0 ft x 4.0 ft x 4.5 in (works with PN 50413 and 50414) | 272 lb | $2,285.00 |
| **69220** | 5.0 ft x 4.0 ft x 4.5 in (works with PN 50415) | 272 lb | $2,285.00 |
| **69223** | 5.0 ft x 5.0 ft x 5.5 in (works with PN 50416, 50417 and 50418) | 380 lb | $2,995.00 |
| **Pit Frames (W x L x D)** | | | |
| **64768** | 2.5 ft x 2.5 ft x 4 in (works with PN 50402) | 89 lb | $1,035.00 |
| **64769** | 3.0 ft x 3.0 ft x 4 in (works with PN 50403) | 102 lb | $1,035.00 |
| **64770** | 4.0 ft x 4.0 ft x 4 in (works with PN 50404 and 50405) | 127 lb | $1,335.00 |
| **64771** | 4.0 ft x 4.0 ft x 5 in (works with PN 50406) | 158 lb | $1,535.00 |
| **64772** | 4.0 ft x 5.0 ft x 4 in (works with PN 50407) | 140 lb | $1,535.00 |
| **64773** | 4.0 ft x 5.0 ft x 5 in (works with PN 50408) | 175 lb | $1,715.00 |
| **64774** | 4.0 ft x 5.0 ft x 5 in (works with PN 50409) | 175 lb | $1,715.00 |
| **64775** | 4.0 ft x 6.0 ft x 5 in (works with PN 50410 and 50411) | 191 lb | $1,875.00 |
| **64776** | 4.0 ft x 6.0 ft x 6 in (works with PN 50412) | 225 lb | $1,975.00 |
| **64777** | 5.0 ft x 5.0 ft x 5 in (works with PN 50413 and 50414) | 191 lb | $1,875.00 |
| **64778** | 5.0 ft x 5.0 ft x 5 in (works with PN 50415) | 191 lb | $1,875.00 |
| **64779** | 5.0 ft x 7.0 ft x 6 in (works with PN 50416, 50417 and 50418) | 270 lb | $2,215.00 |

*Part numbered ramps are designed to fit scale sides A or C, if you need a ramp to fit scale side B or D please request a quote for a special ramp*



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*Part numbered ramps are designed to fit scale sides A or C, if you need a ramp to fit scale side B or D please request a quote for a special ramp*

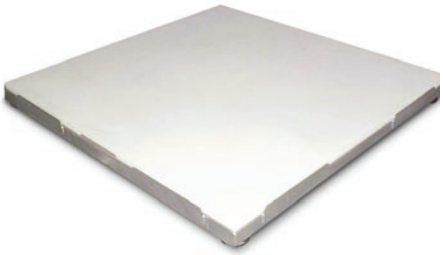




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# RoughDeck® SD

Sanitary Deck Floor Scale





*Important NOTE: Applications where oily substances may be spilled could cause the deck to become slippery—caution should be used.*

## Specifications

**End Load Capacity:**
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1 m) (for connecting junction box to indicator)

**Remote Junction Box:**
Stainless steel enclosure can be located up to 10 ft away from scale

**Warranty:**
RoughDeck SD weldment and load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001, Class III 5,000 d

## Standard Features

- Rugged washdown design
- 304 stainless steel construction
- Rigid stainless steel tube frame
- Four stainless steel, welded sealed, shear-beam load cells
- Load cells protected on all four sides
- 20 ft (6 m) of SURVIVOR® EL147HE hostile environment load cell cable
- Remote TuffSeal® JB4SS stainless steel NEMA Type 4X junction box
- Four adjustable stainless steel SUREFOOT™ support feet
- Removable polyethylene deck (deck weight: 80 lb (36.6 kg) on 4 ft x 4 ft size)
- Side brackets to hold deck during washdown

## APPROVALS

NTEP

FM APPROVED

Side View



*Bracket to hold polyethylene top deck when cleaning under scale*

Underdeck View






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## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **50385** | 2.5 ft x 2.5 ft x 4.4 in | 2,000 lb | 158 lb | $4,200.00 |
| **50386** | 3 ft x 3 ft x 4.4 in | 2,000 lb | 208 lb | $4,315.00 |
| **50387** | 4 ft x 4 ft x 4.4 in | 2,000 lb | 338 lb | $4,530.00 |
| **50388** | 4 ft x 4 ft x 4.4 in | 5,000 lb | 338 lb | $4,530.00 |
| **50389** | 4 ft x 4 ft x 5.4 in | 10,000 lb | 447 lb | $4,755.00 |
| **50390** | 4 ft x 5 ft x 4.4 in | 2,000 lb | 406 lb | $4,975.00 |
| **50391** | 4 ft x 5 ft x 5.4 in | 5,000 lb | 406 lb | $4,975.00 |
| **50392** | 4 ft x 5 ft x 5.4 in | 10,000 lb | 540 lb | $5,190.00 |
| **50393** | 4 ft x 6 ft x 5.4 in | 2,000 lb | 477 lb | $5,420.00 |
| **50394** | 4 ft x 6 ft x 5.4 in | 5,000 lb | 477 lb | $5,420.00 |
| **50395** | 4 ft x 6 ft x 6.4 in | 10,000 lb | 637 lb | $5,965.00 |
| **50396*** | 5 ft x 5 ft x 5.4 in | 2,000 lb | 478 lb | $5,420.00 |
| **50397*** | 5 ft x 5 ft x 5.4 in | 5,000 lb | 478 lb | $5,420.00 |
| **50398*** | 5 ft x 5 ft x 5.4 in | 10,000 lb | 637 lb | $5,965.00 |
| **50399*** | 5 ft x 7 ft x 6.4 in | 2,000 lb | 705 lb | $7,510.00 |
| **50400*** | 5 ft x 7 ft x 6.4 in | 5,000 lb | 705 lb | $7,510.00 |
| **50401*** | 5 ft x 7 ft x 6.4 in | 10,000 lb | 908 lb | $8,495.00 |

** Constructed of two pieces of polyethylene to make up the top deck.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **28740** | RoughDeck floor stand for indicator, 36.3 in high, stainless steel | $310.00 |
| **18778** | Floor anchor plates, stainless steel (set of 2) | $45.00 |

*Consult factory for these additional options:*

- *Access ramps*
- *Pit frames*





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# RoughDeck® PW-1 Mild Steel

Low-profile Pallet Weighing Floor Scale



## Specifications

**End Load Capacity:**
80% full scale at 2,500 lb
100% full scale at 5,000 lb

**Cable Length:**
20 ft (6.1 m) for connecting junction box to indicator

**Warranty:**
Load cells two years, all other components one year

## Standard Features

- Low-profile design
- 20 feet SURVIVOR® EL147HE hostile environment load cell cable
- Top-access junction box
- TuffSeal JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Four adjustable stainless steel SUREFOOT™ support feet
- Four alloy steel shear beam load cells

## APPROVALS

FM C US APPROVED

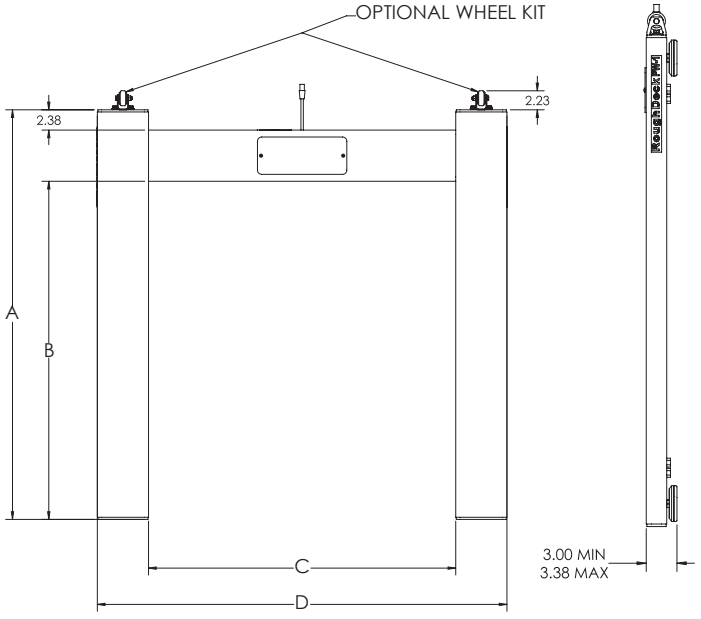
## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **177904** | 48 in x 48 in x 3 in | 2,500 lb | 200 lb | $1,610.00 |
| **177905** | 48 in x 60 in x 3 in | 2,500 lb | 210 lb | $1,760.00 |
| **177906** | 60 in x 60 in x 3 in | 2,500 lb | 235 lb | $1,960.00 |
| **177907** | 48 in x 48 in x 3 in | 5,000 lb | 200 lb | $1,610.00 |
| **177908** | 48 in x 60 in x 3 in | 5,000 lb | 210 lb | $1,760.00 |
| **177909** | 60 in x 60 in x 3 in | 5,000 lb | 235 lb | $1,960.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **18777** | Floor anchor plates, mild steel (set of 2) | $35.00 |
| **19352** | RoughDeck floor stand for indicator, 36.3 in high, mild steel | $235.00 |
| **126384** | RoughDeck floor stand for indicator, 48 in high, mild steel | $260.00 |
| **178250** | Wheel kit option | $95.00 |
| **Consult** | Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells and hardware | +$120.00 list price add-on |
| **Consult** | Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware | +$440.00 list price add-on |
| **Consult** | Epoxy paint | +$90.00 list price add-on |

| Dimensions | |
|---|---|
| **4 ft x 4 ft (160 lb)** | |
| A | 48.00 in |
| B | 39.63 in |
| C | 36.00 in |
| D | 48.00 in |
| **4 ft x 5 ft (170 lb)** | |
| A | 48.00 in |
| B | 39.63 in |
| C | 48.00 in |
| D | 60.00 in |
| **5 ft x 5 ft (195 lb)** | |
| A | 60.00 in |
| B | 51.63 in |
| C | 48.00 in |
| D | 60.00 in |






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# RoughDeck® PW-1 Stainless Steel

Low-profile Pallet Weighing Floor Scale

## Specifications

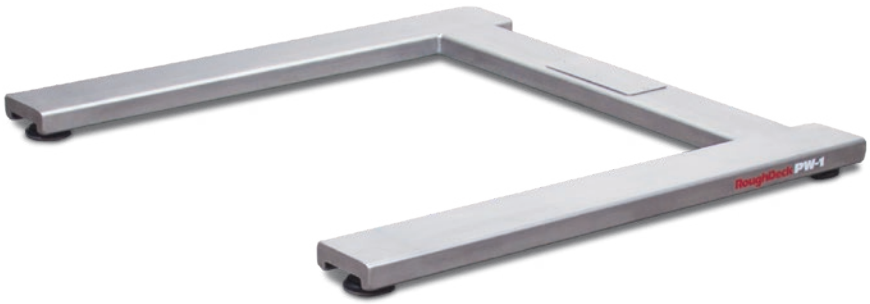
**End Load Capacity:**
80% full scale at 2,500 lb
100% full scale at 5,000 lb

**Cable Length:**
20 ft (6.1 m) for connecting junction box to indicator

**Warranty:**
Load cells two years, all other components one year

## Standard Features

- Low-profile design
- 20 feet SURVIVOR® EL147HE hostile environment load cell cable
- Top-access junction box
- TuffSeal JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Four adjustable stainless steel SUREFOOT™ support feet
- Four stainless steel, IP66 shear beam load cells




## APPROVALS

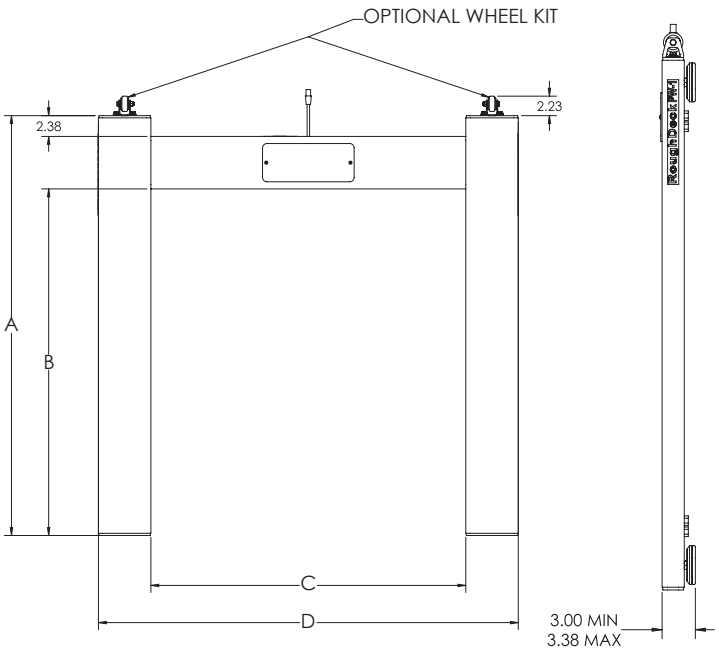
FM C US APPROVED

## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **177910** | 48 in x 48 in x 3 in | 2,500 lb | 200 lb | $3,500.00 |
| **177911** | 48 in x 60 in x 3 in | 2,500 lb | 210 lb | $3,700.00 |
| **177912** | 60 in x 60 in x 3 in | 2,500 lb | 235 lb | $3,900.00 |
| **177913** | 48 in x 48 in x 3 in | 5,000 lb | 200 lb | $3,500.00 |
| **177914** | 48 in x 60 in x 3 in | 5,000 lb | 210 lb | $3,700.00 |
| **177915** | 60 in x 60 in x 3 in | 5,000 lb | 235 lb | $3,900.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **18778** | Floor anchor plates, stainless steel (set of 2) | $45.00 |
| **28740** | RoughDeck floor stand for indicator, 36.3 in high, stainless steel | $310.00 |
| **178250** | Wheel kit option | $95.00 |
| **Consult** | Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware | +$320.00 list price add-on |




| Dimensions | |
|---|---|
| **4 ft x 4 ft (160 lb)** | |
| A | 48.00 in |
| B | 39.63 in |
| C | 36.00 in |
| D | 48.00 in |
| **4 ft x 5 ft (170 lb)** | |
| A | 48.00 in |
| B | 39.63 in |
| C | 48.00 in |
| D | 60.00 in |
| **5 ft x 5 ft (195 lb)** | |
| A | 60.00 in |
| B | 51.63 in |
| C | 48.00 in |
| D | 60.00 in |

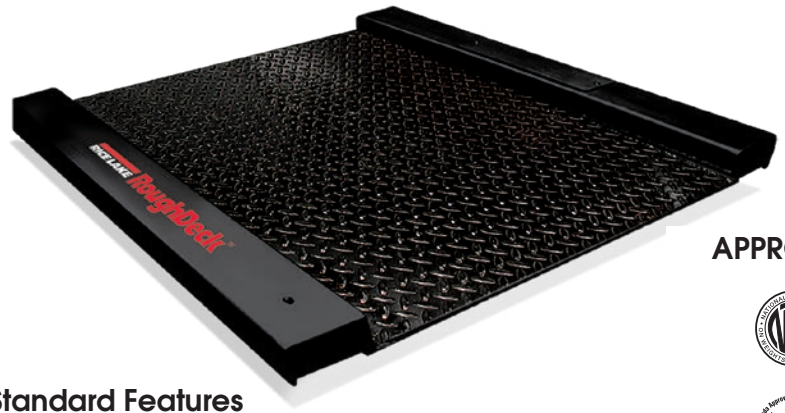




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# RoughDeck® BDP Mild Steel

Barrel, Drum, Pallet Scale – Stationary Model




## Standard Features

- Live siderails
- Top access foot adjustment holes (holes are 1/2-13 threaded for lifting scale)
- Four adjustable stainless steel SUREFOOT™ support feet
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Diamond tread top plate
- Alloy steel load cells

## APPROVALS

NTEP

Measurement Canada Approved

FM C US APPROVED

## Specifications

**End Load Capacity:**
1,000 lb: 100% full scale
2,500 lb: 80% full scale

**Cable Length:**
10 ft (3 m)

**Threaded Eyebolt:**
Hole (1/2-13 NC) located in center of deck for easy lifting

**Warranty:**
RoughDeck BDP weldment three years, load cells two years, all other components one year

**Approvals:**
NTEP CC 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

## Part Number/Price

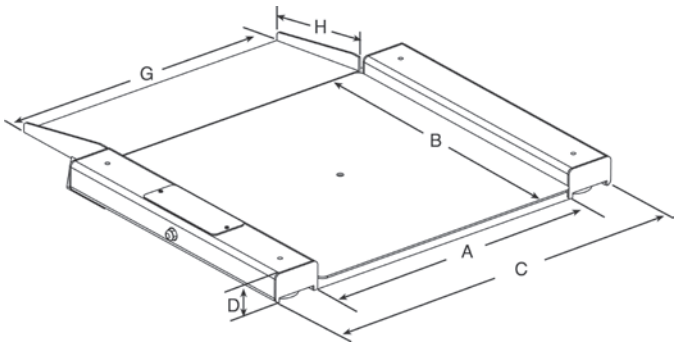
| Part # | Size (W x L) Not Including Side Rails | Capacity (Canadian Approved Capacities) | Est. Weight | Price |
|---|---|---|---|---|
| **77962** | 30 in x 31 in | 1,000 lb (500 kg) | 205 lb | $1,725.00 |
| **77963** | 30 in x 31 in | 2,500 lb (1,000 kg) | 205 lb | $1,725.00 |
| **77964** | 36 in x 37 in | 1,000 lb (500 kg) | 265 lb | $1,850.00 |
| **77965** | 36 in x 37 in | 2,500 lb (1,000 kg) | 265 lb | $1,850.00 |
| **Access Ramps** | | | | |
| **78011** | 30 in x 12 in (sold individually) | | 25 lb | $225.00 |
| **78012** | 36 in x 12 in (sold individually) | | 30 lb | $225.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **18777** | Floor anchor plates, mild steel, set of 2 (for use with static scale, without ramps) | $35.00 |
| **19352** | RoughDeck floor stand for indicator, 36.3 in high, mild steel (for use with static scale) | $235.00 |
| **126384** | RoughDeck floor stand for indicator, 48 in high, mild steel | $260.00 |
| **Consult** | Mild steel deck with RL32018S IP66 stainless steel (cFMus approved) load cells, and hardware | +$120.00 list price add-on |
| **Consult** | Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware | +$440.00 list price add-on |

| Dimensions Roughdeck BDP with access ramp | | | |
|---|---|---|---|
| **30 in x 31 in models** | | | |
| A | 30.0 in (762 mm) | D | 3.31 in (84.1 mm) |
| B | 31.0 in (787.4 mm) | G | 30.0 in (762 mm) |
| C | 40.0 in (1016 mm) | H | 12.0 in (304.8 mm) |
| **36 in x 37 in models** | | | |
| A | 36.0 in (914.4 mm) | D | 3.31 in (84.1 mm) |
| B | 37.0 in (939.8 mm) | G | 36.0 in (914.4 mm) |
| C | 46.0 in (1168.4 mm) | H | 12.0 in (304.8 mm) |

*Distance from floor to top of center weighing surface: 1.625 in (41.2 mm)*
*Distance from floor to bottom of weighing surface: 0.31 in (7.87 mm)*






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# RoughDeck® BDP Mild Steel

Barrel, Drum, Pallet Scale – Portable Model

## Specifications

**End Load Capacity:**
1,000 lb: 100% full scale
2,500 lb: 80% full scale

**Cable Length:**
10 ft (3 m)

**Threaded Eyebolt:**
Hole (1/2-13 NC) located in center of deck for easy lifting

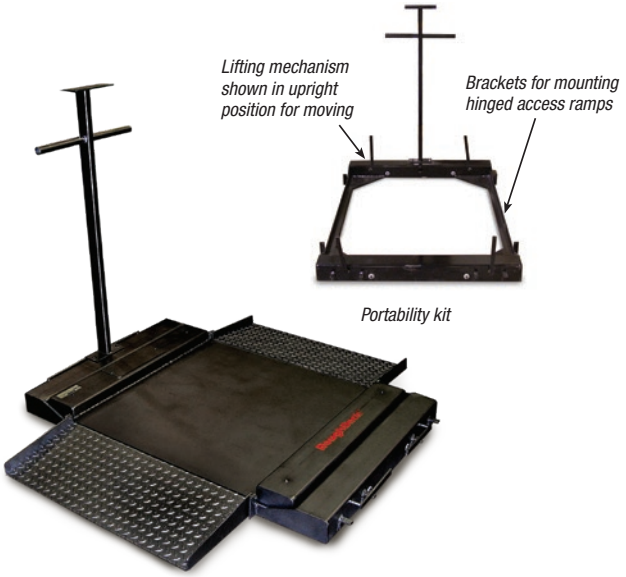
**Warranty:**
RoughDeck BDP weldment three years, load cells two years, all other components one year

**Approvals:**
NTEP CC 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

## Standard Features

- Live siderails
- Top access foot adjustment holes
- Holes are 1/2-13 threaded for lifting scale
- Four adjustable stainless steel SUREFOOT™ support feet
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Treaded top plate
- Alloy steel load cells

## APPROVALS



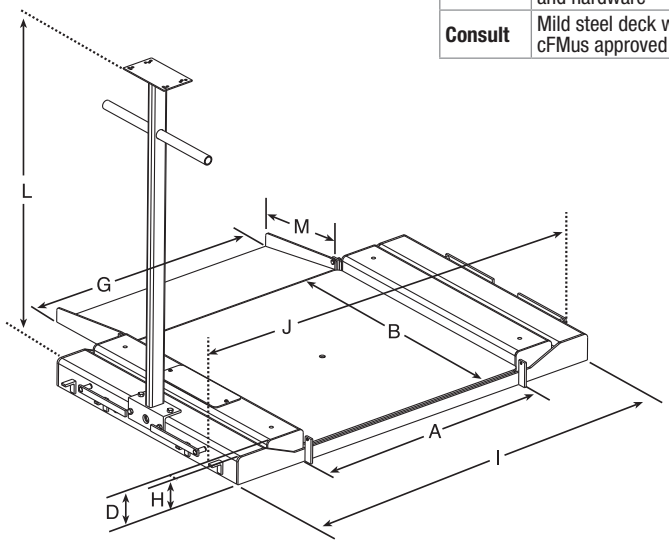

*Scale shown with optional portability kit*

## Part Number/Price

| Part # | Size (W x L) Not Including Side Rails | Capacity (Canadian Approved Capacities) | Est. Weight | Price |
|---|---|---|---|---|
| **77962** | 30 in x 31 in | 1,000 lb (500 kg) | 205 lb | $1,725.00 |
| **77963** | 30 in x 31 in | 2,500 lb (1,000 kg) | 205 lb | $1,725.00 |
| **77964** | 36 in x 37 in | 1,000 lb (500 kg) | 265 lb | $1,850.00 |
| **77965** | 36 in x 37 in | 2,500 lb (1,000 kg) | 265 lb | $1,850.00 |
| **Portability Kits** | | | | |
| **Kits Include: Frame, two swivel and two fixed zinc plated steel NSF approved wheels (75 lb max. load capacity), indicator stand** | | | | |
| **78021** | For use with 30 in x 31 in scale | | 90 lb | $825.00 |
| **78022** | For use with 36 in x 37 in scale | | 100 lb | $825.00 |
| **RoughDeck BDP Portability Kit, with conductive wheels for use with 882IS** | | | | |
| **199102** | 30 in x 31 in | | 25 lb | $1,175.00 |
| **199103** | 36 in x 37 in | | 30 lb | $1,175.00 |
| **Hinged Access Ramps: For use with portability kit** | | | | |
| **78015** | 29.25 in x 12 in (sold individually) | | 25 lb | $225.00 |
| **78016** | 35.25 in x 12 in (sold individually) | | 30 lb | $225.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells, and hardware | +$120.00 list price add-on |
| **Consult** | Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware | +$440.00 list price add-on |




| Dimensions with portability frame & hinged access ramps | | | |
|---|---|---|---|
| **30 in x 31 in models** | | | |
| A | 30.0 in (762 mm) | I | 49.25 in (1250.9 mm) |
| B | 31.0 in (787.4 mm) | J | 52.25 in (1327.1 mm) |
| D | 3.66 in (92.9 mm) | L | 40.37 in (1025.4 mm) |
| G | 29.25 in (742.9 mm) | M | 12.0 in (304.8 mm) |
| H | 3.25 in (82.5 mm) | | |
| **36 in x 37 in models** | | | |
| A | 36.0 in (914.4 mm) | I | 55.25 in (1403.4 mm) |
| B | 37.0 in (939.8 mm) | J | 58.25 in (1479.5 mm) |
| D | 3.66 in (92.9 mm) | L | 40.37 in (1025.4 mm) |
| G | 35.25 in (895.3 mm) | M | 12.0 in (304.8 mm) |
| H | 3.25 in (82.5 mm) | | |

*Distance from floor to top of center weighing surface: 1.94 in (49.2 mm)*
*Distance from floor to bottom of weighing surface: 0.62 in (15.7 mm)*

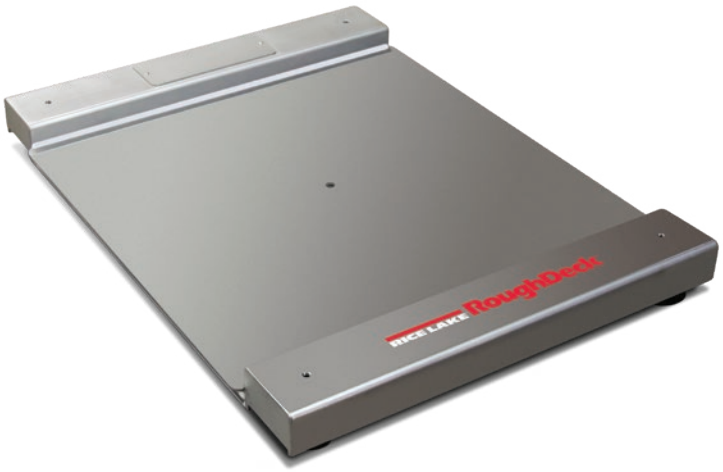




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# RoughDeck® BDP Stainless Steel

Barrel, Drum, Pallet Scale - Stationary Model




## APPROVALS

## Specifications

**End Load Capacity:**
1,000 lb: 100% full scale
2,500 lb: 80% full scale

**Cable Length:**
10 ft (3 m)

**Threaded Eyebolt:**
Hole (1/2-13 NC) located in center of deck for easy lifting

**Warranty:**
RoughDeck BDP weldment three years, load cells two years, all other components one year

**Approvals:**
NTEP CC 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

## Standard Features

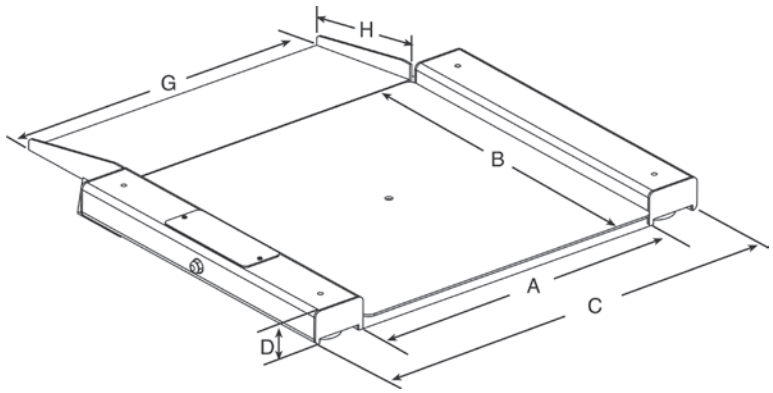
- Live siderails
- Top access foot adjustment holes (holes are 1/2-13 threaded for lifting scale)
- Four adjustable stainless steel SUREFOOT™ support feet
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Smooth top plate
- Stainless steel, IP66 load cells

## Part Number/Price

| Part # | Size (W x L) | Capacity (Canadian Approved Capacities) | Est. Weight | Price |
|---|---|---|---|---|
| **77967** | 30 in x 31 in | 1,000 lb (500 kg) | 205 lb | $3,495.00 |
| **77968** | 30 in x 31 in | 2,500 lb (1,000 kg) | 205 lb | $3,495.00 |
| **77969** | 36 in x 37 in | 1,000 lb (500 kg) | 265 lb | $3,595.00 |
| **77970** | 36 in x 37 in | 2,500 lb (1,000 kg) | 265 lb | $3,595.00 |
| **Access Ramps** | | | | |
| **78013** | 30 in x 12 in (sold individually) | | 25 lb | $315.00 |
| **78014** | 36 in x 12 in (sold individually) | | 30 lb | $315.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **18778** | Floor anchor plates, stainless steel, set of 2 (for use with static scale, without ramps) | $45.00 |
| **28740** | Floor stand for indicator, 36.3 in high, stainless steel (for use with static scale) | $310.00 |
| **Consult** | Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel (cFMus approved) load cells and hardware | +$320.00 list price add-on |
| **Consult** | Stainless steel diamond treadplate safety deck | Consult |




| Dimensions Roughdeck BDP with access ramp | | | |
|---|---|---|---|
| **30 in x 31 in models** | | | |
| A | 30.0 in (762 mm) | D | 3.31 in (84.1 mm) |
| B | 31.0 in (787.4 mm) | G | 30.0 in (762 mm) |
| C | 40.0 in (1016 mm) | H | 12.0 in (304.8 mm) |
| **36 in x 37 in models** | | | |
| A | 36.0 in (914.4 mm) | D | 3.31 in (84.1 mm) |
| B | 37.0 in (939.8 mm) | G | 36.0 in (914.4 mm) |
| C | 46.0 in (1168.4 mm) | H | 12.0 in (304.8 mm) |

*Distance from floor to top of center weighing surface: 1.625 in (41.2 mm)*
*Distance from floor to bottom of weighing surface: 0.31 in (7.87 mm)*



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# RoughDeck® BDP Stainless Steel

Barrel, Drum, Pallet Scale – Portable Model

## Specifications

**End Load Capacity:**
1,000 lb: 100% full scale
2,500 lb: 80% full scale

**Cable Length:**
10 ft (3 m)

**Threaded Eyebolt:**
Hole (1/2-13 NC) located in center of deck for easy lifting

**Warranty:**
RoughDeck BDP weldment three years, load cells two years, all other components one year

**Approvals:**
NTEP CC 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

## Standard Features

- Live siderails
- Top access foot adjustment holes
- Holes are 1/2-13 threaded for lifting scale
- Four adjustable stainless steel SUREFOOT™ support feet
- TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Smooth top plate
- IP66 stainless steel, welded-seal load cells

## APPROVALS



*Portability kit*

*Scale shown with optional portability kit*

## Part Number/Price

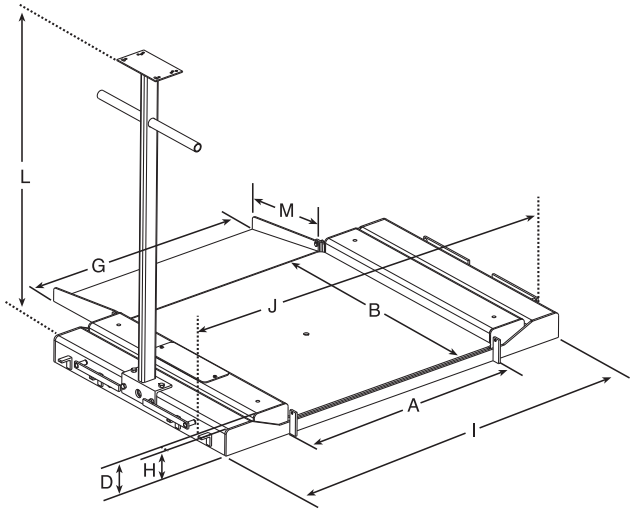
| Part # | Size (W x L) Not Including Siderails | Capacity (Canadian Approved Capacities) | Est. Weight | Price |
|---|---|---|---|---|
| **77967** | 30 in x 31 in | 1,000 lb (500 kg) | 205 lb | $3,495.00 |
| **77968** | 30 in x 31 in | 2,500 lb (1,000 kg) | 205 lb | $3,495.00 |
| **77969** | 36 in x 37 in | 1,000 lb (500 kg) | 265 lb | $3,595.00 |
| **77970** | 36 in x 37 in | 2,500 lb (1,000 kg) | 265 lb | $3,595.00 |
| **Portability Kits** | | | | |
| **Kits Include: Frame, two swivel and two fixed zinc plated steel NSF approved wheels (75 lb max. load capacity), indicator stand** | | | | |
| **78023** | For use with 30 in x 31 in scale | | 90 lb | $1,025.00 |
| **78024** | For use with 36 in x 37 in scale | | 100 lb | $1,080.00 |
| **RoughDeck BDP Portability Kit, with conductive wheels for use with 882IS** | | | | |
| **199100** | 30 in x 31 in | | 25 lb | $1,375.00 |
| **199101** | 36 in x 37 in | | 30 lb | $1,430.00 |
| **Hinged access ramps: For use with portability kit** | | | | |
| **78017** | 29.25 in x 12 in (sold individually) | | 25 lb | $315.00 |
| **78018** | 35.25 in x 12 in (sold individually) | | 30 lb | $315.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel (cFMus approved) load cells and hardware | +$320.00 list price add-on |
| **Consult** | Stainless steel diamond treadplate safety deck | Consult |

| Dimensions with portability frame and hinged access ramps | | | |
|---|---|---|---|
| **30 in x 31 in models** | | | |
| A | 30.0 in (762 mm) | I | 49.25 in (1250.9 mm) |
| B | 31.0 in (787.4 mm) | J | 52.25 in (1327.1 mm) |
| D | 3.66 in (92.9 mm) | L | 40.37 in (1025.4 mm) |
| G | 29.25 in (742.9 mm) | M | 12.0 in (304.8 mm) |
| H | 3.25 in (82.5 mm) | | |
| **36 in x 37 in models** | | | |
| A | 36.0 in (914.4 mm) | I | 55.25 in (1403.4 mm) |
| B | 37.0 in (939.8 mm) | J | 58.25 in (1479.5 mm) |
| D | 3.66 in (92.9 mm) | L | 40.37 in (1025.4 mm) |
| G | 35.25 in (895.3 mm) | M | 12.0 in (304.8 mm) |
| H | 3.25 in (82.5 mm) | | |

*Distance from floor to top of center weighing surface: 1.94 in (49.2 mm)*
*Distance from floor to bottom of weighing surface: 0.62 in (15.7 mm)*








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# DeckHand Rough-n-Ready System

Portable Scale




*Shown with optional ramp. Factory calibration is done at Rice Lake Weighing Systems.*



*482 plus*

## Specifications

**End Load Capacity:**
100% end loading

**mV/V Output:**
2 mV/V

**Cable Length:**
9 ft 10 in (3 m)

**Height:**
Weighing platter: 4.5 in height when in weigh mode

**Column Height:**
59 in

**Warranty:**
Load cells two years, all other components one year

**Approvals:**
NTEP CC 98-004, Class III, 2,500 d
Measurement Canada AM-5218,
(250 kg and 500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

## Standard Features

- Mild steel wheeled frame, base and mast
- 500 lb, 1,000 lb, 2,000 lb capacity
- Large rubber wheels simplify movement on uneven floors (not rated for IS)
- Two IP67 Aluminum load cells
- Package includes: Mild steel DeckHand portable scale and 482 Plus indicator with internal battery
- Factory-wired and calibrated
- See 482 Plus for indicator specifications.
- Factory Calibrated for 2,500 divisions

## APPROVALS

## Part Number/Price

| Part # | Overall Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Mild Steel with 482 Plus, 115 VAC indicator with internal battery** | | | | |
| **169707** | 31 in x 41 in x 4.5 in | 500 lb | 343 lb | $2,995.00 |
| **169708** | 31 in x 41 in x 4.5 in | 1,000 lb | 363 lb | $2,995.00 |
| **169709** | 31 in x 41 in x 4.5 in | 2,000 lb | 380 lb | $3,100.00 |
| **Mild Steel with 482 Plus, 230 VAC indicator with internal battery** | | | | |
| **169710** | 31 in x 41 in x 4.5 in | 500 lb | 343 lb | $2,995.00 |
| **169711** | 31 in x 41 in x 4.5 in | 1,000 lb | 363 lb | $2,995.00 |
| **169712** | 31 in x 41 in x 4.5 in | 2,000 lb | 380 lb | $3,100.00 |

## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **43376** | Ramp assembly, 500/1,000 lb, mild steel, 25 in x 27 in | 100 lb | $275.00 |
| **43378** | Ramp assembly, 2,000 lb, mild steel, 25 in x 27 in | 100 lb | $325.00 |



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# DeckHand
Portable Scale

## Specifications

**End Load Capacity:**
100% end loading

**mV/V Output:**
2 mV/V

**Cable length:**
9 ft 10 in (3 m)

**Height:**
Weighing platter: 4.5 in height when in weigh mode

**Column Height:**
59 in

**Warranty:**
DeckHand weldment five years, load cells two years, all other components one year

**Approvals:**
NTEP Certified, CC 98-004, Class III, 2,500 d
Measurement Canada approved, AM-5218

## Standard Features

- Mild or stainless steel wheeled frame, base and mast
- Diamond tread top plate, mild or stainless steel
- 500 lb, 1,000 lb, 2,000 lb capacity
- Large rubber wheels (not rated for IS) simplify movement on uneven floors
- Two IP67 aluminum load cells
- Standard indicator mount with integral handles for the 480/480 Plus, 482/482 Plus, 880/880 Plus, and 680 Synergy




## APPROVALS

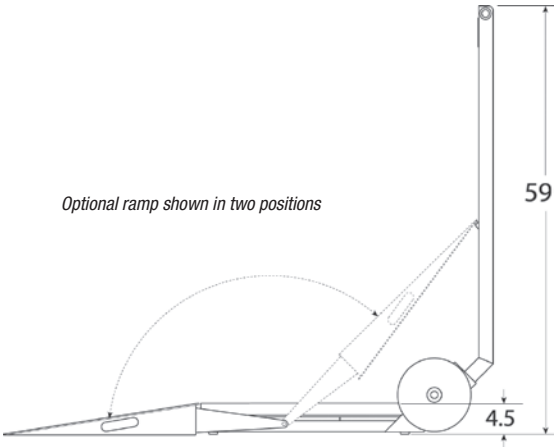
## Part Number/Price

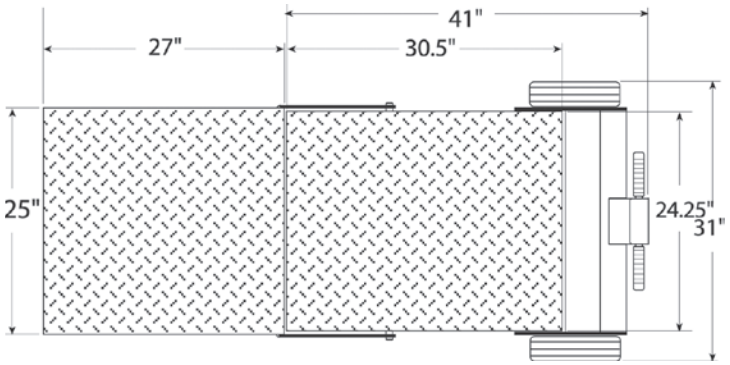
| Part # | Overall Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Mild Steel** | | | | |
| **41293** | 31 in x 41 in x 4.5 in | 500 lb | 336 lb | $2,365.00 |
| **41294** | 31 in x 41 in x 4.5 in | 1,000 lb | 356 lb | $2,365.00 |
| **41295** | 31 in x 41 in x 4.5 in | 2,000 lb | 373 lb | $2,475.00 |
| **Stainless Steel** | | | | |
| **41296** | 31 in x 41 in x 4.5 in | 500 lb | 336 lb | $3,290.00 |
| **41297** | 31 in x 41 in x 4.5 in | 1,000 lb | 356 lb | $3,290.00 |
| **41298** | 31 in x 41 in x 4.5 in | 2,000 lb | 373 lb | $3,490.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Mild Steel** | | |
| **43376** | 500/1,000 lb mild steel ramp | $275.00 |
| **43378** | 2,000 lb mild steel ramp | $325.00 |
| **Stainless Steel** | | |
| **43377** | Ramp assembly, 500/1,000 lb, stainless steel, 25 in x 27 in | $670.00 |
| **43379** | Ramp assembly, 2,000 lb, stainless steel, 25 in x 27 in | $775.00 |
| **Consult** | Smooth top | N/C |

*Optional ramp shown in two positions*






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# RL1200

Portable Beam Scale



## Specifications

**Construction:**
Cast-iron platform, base and levers

**Poise:**
Steel locking screw provided

**Platform Dimensions:**
(L x W) 24 in x 18 in

**Capacity:**
1,000 lb or 500 kg

**Approvals:**
NTEP Certified 93-004 Class III 2,000 d (avoirdupois beam only)

**Warranty:**
One-year limited warranty

## APPROVALS

## Standard Features

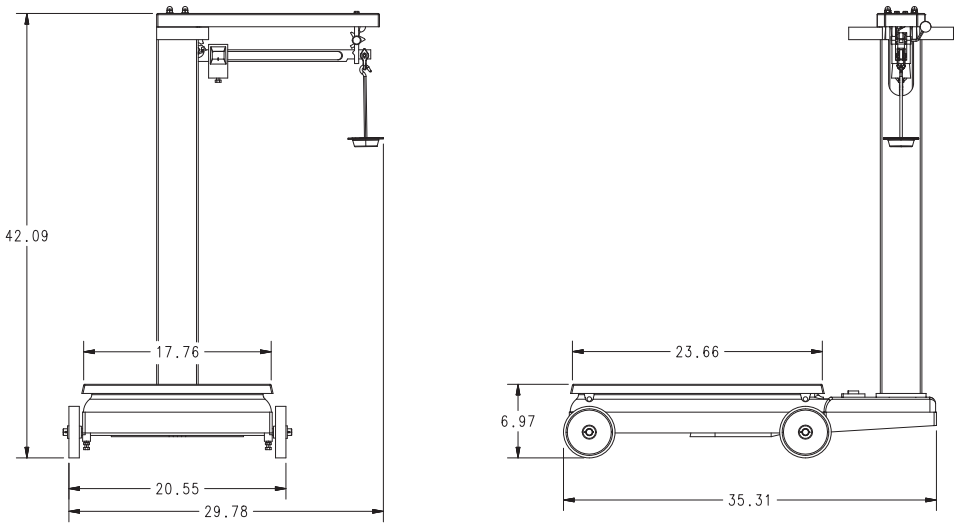
- NTEP Certified
- Cast iron construction
- 1,000 lb or 500 kg capacity models available
- Locking screw knob on poise
- Slotted cast iron counterpoise weights, marked to scale capacity
- Heavy-duty wheels for portability (wheels are not rated for IS environment)
- Weights and hanger
- Nickel plated steel beam with engraved brass insert

## Part Number/Price

| Part # | Overall Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **157982** | Avoirdupois beam, NTEP Certified | 1,000 lb x 0.5 lb | 200 lb | $825.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **172225** | Electronic conversion kit for existing scale (includes: load cell, hardware and 482 with internal battery) | $1,220.00 |
| **172226** | Electronic conversion kit for existing scale (includes: load cell, hardware and 482 Plus with internal battery) | $1,220.00 |






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# RL1200 EM

Electromechanical Portable Beam Scale

## Specifications

**Construction:**
Cast-iron platform, base and levers

**Platform Dimensions:**
(L x W): 24 in x 18 in

**Capacity:**
1,000 lb

**Approvals:**
NTEP Certified 93-004 Class III 2,000d (avoirdupois beam only)

**Warranty:**
One-year limited warranty



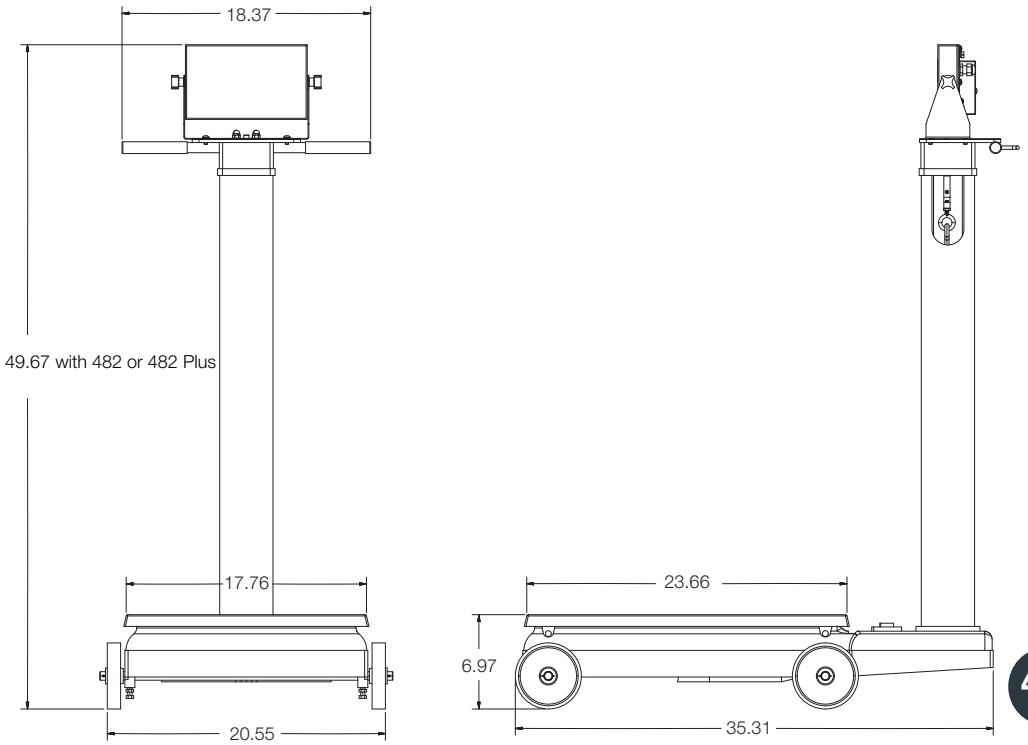

## Standard Features

- NTEP Certified
- Cast iron construction
- 1,000 lb capacity
- Heavy-duty wheels and handle for portability
- 482 or 482 Plus indicator

**APPROVALS**

## Part Number/Price

| Part # | Overall Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **169187** | Portable beam with 482 with internal battery | 1,000 lb x 0.5 lb | 200 lb | $2,045.00 |
| **169188** | Portable beam with 482 Plus with internal battery | 1,000 lb x 0.5 lb | 200 lb | $2,045.00 |








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# RL1200 IS

Intrinsically Safe Electromechanical Portable Beam Scale



## Specifications

**Construction:**
Cast-iron platform, base and levers

**Platform Dimensions:**
(L x W): 24 in x 18 in

**Capacity:**
1,000 lb

**Approvals:**
NTEP Certified 93-004 Class III 2,000d (avoirdupois beam only)

**Warranty:**
One-year limited warranty

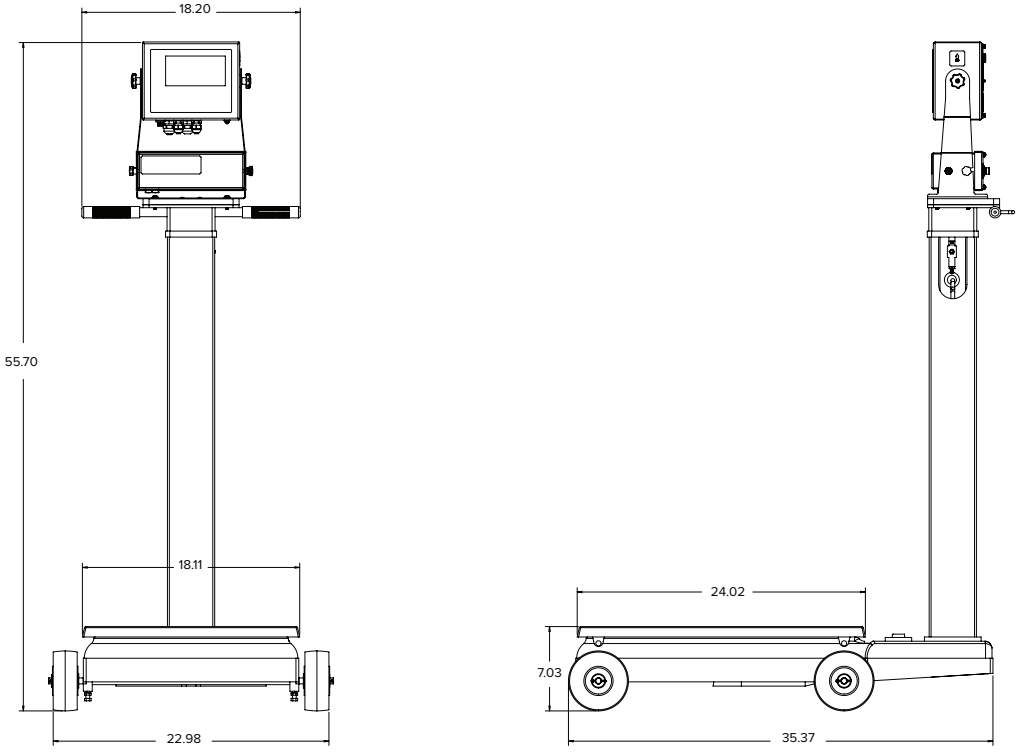
## Standard Features

- NTEP Certified
- Cast iron construction
- 1,000 lb capacity
- Conductive wheels to eliminate static build-up and discharge
- Handle for ease of portability
- Intrinsically safe indicator (see indicator section for specifications)

## APPROVALS

## Part Number/Price

| Part # | Overall Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **195558** | Portable beam scale with 882IS, battery pack and charger | 1,000 lb x 0.5 lb | 200 lb | $3,185.00 |
| **195560** | Portable beam scale with 882IS Plus, battery pack and charger | 1,000 lb x 0.5 lb | 200 lb | $3,185.00 |






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# Altralite™

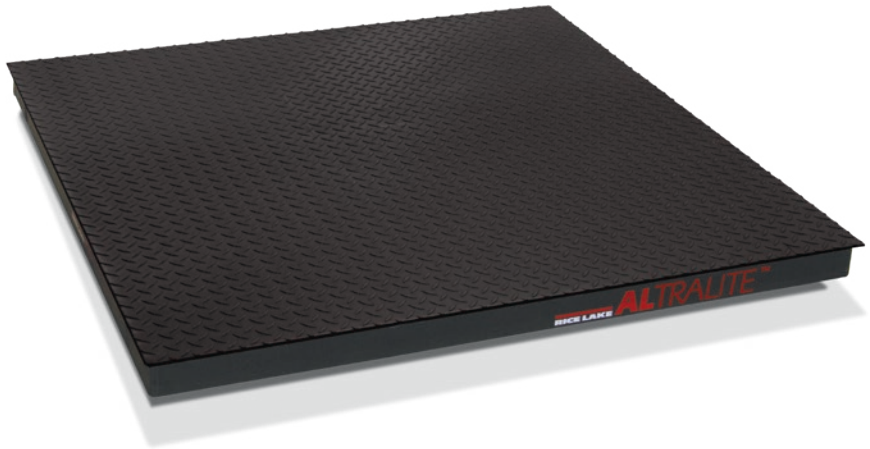
Portable Low-profile Anodized Aluminum Floor Scale

## Specifications

**End Load Capacity:**
100% full scale

**Cable Length:**
20 ft (6.1 m) for connecting junction box to indicator

**Warranty:**
Load cells two years, all other components one year




## Standard Features

- Low-profile design
- Black anodized aluminum construction
- Diamond-treadplate safety deck
- Four high-alloy tool steel shear-beam load cells
- TuffSeal JB4SS stainless steel, NEMA Type 4X junction box with signal trim card
- Side-access junction box
- 20 feet SURVIVOR® EL147HE hostile environment load cell cable
- Four adjustable stainless steel SUREFOOT™ support feet

**APPROVALS**

FM C US APPROVED

## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **18677** | 4 ft x 4 ft x 3.5 in | 5,000 lb | 150 lb | $2,695.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Four drilled deck holes for scale height adjustment | $40.00 |
| **Consult** | Top access junction box | +$100.00 list price add-on |





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# RoughDeck® FXB

Painted Steel and Stainless Steel, Flexure Lever Floor Scale




## Specifications

**End Loading Capacity:**
100% of scale capacity

**Safe Overload Capacity:**
150% of scale capacity

**Warranty:**
Two-year limited warranty

**Approvals:**
Painted steel: NTEP CC 88-100, Class III 5,000 d
Stainless steel: NTEP CC 88-100, Class III 3,000 d

## Standard Features

**Painted Steel**

- Unique flexure design filters motion and shock loading
- Spring steel flexures
- Rugged all-steel painted construction smooth deck
- One Rice Lake Weighing Systems brand RL20000 series nickel-plated s-beam load cell and plated wire rope
- NTEP Certified models in sizes 24 in x 24 in (500 lb) through 72 in x 96 in up to 10,000 lb capacity

**Stainless Steel**

- Unique flexure design filters motion and shock loading
- All 304 stainless steel construction, smooth deck
- Stainless flexures, hardware and load cell
- NTEP Certified models in sizes 24 in x 24 in (500 lb) through 72 in x 96 in up to 10,000 lb capacity

## APPROVALS

NTEP

FM APPROVED



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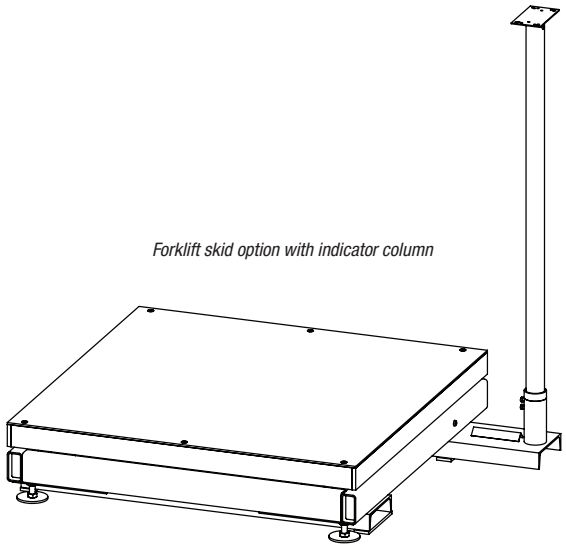
## Part Number/Price

| Part # | Size (L x W xH) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Painted Steel** | | | | |
| **33134** | 18 in x 24 in x 6.5 in | 500 lb (250 kg) | 125 lb | $4,300.00 |
| **33066** | 18 in x 24 in x 6.5 in | 1,000 lb (500 kg) | 125 lb | $4,300.00 |
| **113566** | 18 in x 30 in x 6.5 in | 500 lb (250 kg) | 133 lb | $4,300.00 |
| **33136** | 18 in x 30 in x 6.5 in | 1,000 lb (500 kg) | 133 lb | $4,300.00 |
| **113567** | 18 in x 30 in x 6.5 in | 1,500 lb (750 kg) | 133 lb | $4,300.00 |
| **33067** | 24 in x 24 in x 6.5 in | 500 lb (250 kg) | 151 lb | $4,300.00 |
| **33068** | 24 in x 24 in x 6.5 in | 1,000 lb (500 kg) | 151 lb | $4,300.00 |
| **33138** | 30 in x 30 in x 6.5 in | 500 lb (250 kg) | 191 lb | $4,500.00 |
| **33069** | 30 in x 30 in x 6.5 in | 1,000 lb (500 kg) | 191 lb | $4,500.00 |
| **33139** | 30 in x 30 in x 6.5 in | 1,500 lb (750 kg) | 191 lb | $4,500.00 |
| **33070** | 30 in x 30 in x 8.25 in | 2,000 lb (1,000 kg) | 281 lb | $4,700.00 |
| **33140** | 36 in x 36 in x 8.25 in | 1,000 lb (500 kg) | 234 lb | $4,700.00 |
| **33071** | 36 in x 36 in x 8.25 in | 2,000 lb (1,000 kg) | 234 lb | $4,700.00 |
| **33072** | 36 in x 36 in x 8.25 in | 5,000 lb (2,500 kg) | 234 lb | $4,700.00 |
| **33141** | 38 in x 46 in x 8.25 in | 1,000 lb (500 kg) | 610 lb | $4,700.00 |
| **113569** | 38 in x 46 in x 8.25 in | 2,000 lb (1,000 kg) | 610 lb | $4,700.00 |
| **113570** | 38 in x 46 in x 8.25 in | 5,000 lb (2,500 kg) | 610 lb | $4,700.00 |
| **113572** | 48 in x 48 in x 8.25 in | 1,000 lb (500 kg) | 654 lb | $5,425.00 |
| **33073** | 48 in x 48 in x 8.25 in | 2,000 lb (1,000 kg) | 654 lb | $5,425.00 |
| **33074** | 48 in x 48 in x 8.25 in | 5,000 lb (2,500 kg) | 654 lb | $5,425.00 |
| **33075** | 48 in x 48 in x 9.25 in | 10,000 lb (5,000 kg) | 735 lb | $6,000.00 |
| **33078** | 48 in x 60 in x 9.25 in | 10,000 lb (5,000 kg) | 845 lb | $6,900.00 |
| **33149** | 48 in x 72 in x 9.25 in | 5,000 lb (2,500 kg) | 1,120 lb | $7,350.00 |
| **33080** | 48 in x 72 in x 9.25 in | 10,000 lb (5,000 kg) | 1,120 lb | $7,350.00 |
| **33081** | 60 in x 60 in x 8.25 in | 5,000 lb (2,500 kg) | 967 lb | $7,150.00 |
| **33082** | 60 in x 60 in x 9.25 in | 10,000 lb (5,000 kg) | 1,180 lb | $7,400.00 |
| **33152** | 60 in x 60 in x 13.25 in | 20,000 lb (10,000 kg) | 1,674 lb | $15,425.00 |
| **Stainless Steel** | | | | |
| **113581** | 24 in x 24 in x 6.5 in | 500 lb (250 kg) | 151 lb | $5,490.00 |
| **113582** | 24 in x 24 in x 6.5 in | 1,000 lb (500 kg) | 151 lb | $5,490.00 |
| **113586** | 30 in x 30 in x 8.25 in | 2,000 lb (1,000 kg) | 281 lb | $8,310.00 |
| **113588** | 36 in x 36 in x 8.25 in | 2,000 lb (1,000 kg) | 450 lb | $9,090.00 |
| **113595** | 48 in x 48 in x 8.25 in | 5,000 lb (2,500 kg) | 630 lb | $12,110.00 |
| **113596** | 48 in x 48 in x 11.25 in | 10,000 lb (5,000 kg) | 735 lb | $15,110.00 |
| **113613** | 60 in x 72 in x 11.25 in | 10,000 lb (5,000 kg) | 1,290 lb | $21,775.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Forklift skid, painted steel FXB-3846 through FXB-6084 provides two eight-channels mounted on customer specified centers. Includes four leveling feet on base | $595.00 |
| **Consult** | Forklift skid with indicator column, painted steel FXB-3846 through FXB-6084 provides two eight-channel mounted on customer specified centers with one of the channels extended 12 in and equipped with bolt on indicator column. Indicator display will be 54 in above floor level | $795.00 |

*NOTE: Indicator stand works with 120/120 Plus, 480/480 Plus, 482/482 Plus, 880/880 Plus, 882IS/882IS Plus, 882IS/882IS Plus w/battery, 680 Synergy*



*Forklift skid option with indicator column*




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# Summit® Scale and Indicator Package

Floor Scale/Indicator Package






CHOICE OF 120 OR 120 PLUS

*Package is configured, corner-trim, and calibrated for 5,000 divisions before shipping*

***Floor Scale and Indicator Package***

*Package includes Summit® 3000 floor scale, 120 PLUS digital weight indicator with tilt stand, 20 ft load cell cable with quick disconnect, configured and calibrated*

## Standard Features

**Summit® 3000 Floor Scale**

- Four NTEP Certified alloy steel-shear beam load cells
- Top access junction box
- Rugged diamond safety treadplate steel deck
- Four adjustable rigid polyurethane rubber feet, 3 in (76.2 mm) diameter
- Signal trim summing board housed in ABS enclosure
- Threaded eyebolt hole (1/2–20NF) located in the center of the deck for easy lifting
- 20 ft of EL147 load cell cable with quick disconnect
- Package configured and calibrated for 5,000 divisions
- Factory Calibrated for 5,000 divisions

**120 Digital Weight Indicator**

- Large 0.8 in (20.3 mm) light emitting diode (LED) display
- Five-button operation
- Full front panel digital calibration and configuration

**120 PLUS Digital Weight Indicator**

- Large 0.8 in backlit liquid crystal display (LCD)
- 115 or 230 VAC wall adapter with rechargeable battery

**APPROVALS**

## Specifications

### Summit 3000 Floor Scale

**End Load Capacity**
100% full scale at 5,000 lb (2,500 kg)
80% full scale at 10,000 lb (5,000 kg)

**Cable Length:**
20 ft (6.1 m) (for connecting junction box to indicator)

**Warranty:**
Summit 3000 weldment and load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001A9, Class III 5,000 d
Measurement Canada AM-5530, Class III 5,000 d

### 120/120 Plus Digital Weight Indicator

**Power:**
**120/120 Plus**
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
**120 Plus:** (estimated battery life)
60 hours with 1 x 350 Ω
40 hours with 4 x 350 Ω
Charge time 8 hours

**Operating Temperature:**
Legal: 14° F to 104° F (-10° C to 40° C)
Industrial: 14° F to 122° F (-10° C to 50° C)

**Rating/Material:**
Enclosure: heavy gauge ABS

**Warranty:**
One-year limited warranty

**120 Approvals:**
NTEP CC 03-059, Class III/IIIL 6,000 d
Measurement Canada AM-5517, Class III/IIIHD 6,000 d
6,000 d OIML TC7028 T 5692, 5,000 d
CE marked

**120 Plus Approvals:**
NTEP CC 03-059, Class III/IIIL 6,000 d
Measurement Canada AM 5517
OIML TC 7626, T5692 5,000 d Class III/IIIHD 6,000 d



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# Summit® Scale and Indicator Package

Floor Scale/Indicator Package

## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Floor Scale and Indicator Package (Single Scale)** | | | | |
| Package includes Summit® 3000 floor scale, 120/120 PLUS digital weight indicator with tilt stand, 20 ft load cell cable with quick disconnect, configured and calibrated | | | | |
| **115 VAC (120)** | | | | |
| **78772** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 315 lb | $1,575.00 |
| **78773** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 315 lb | $1,575.00 |
| **115 VAC (120 PLUS)** | | | | |
| **106913** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 315 lb | $1,725.00 |
| **106914** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 315 lb | $1,725.00 |
| **230 VAC (120)** | | | | |
| **78780** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 315 lb | $1,575.00 |
| **78781** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 315 lb | $1,575.00 |
| **230 VAC (120 PLUS)** | | | | |
| **106915** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 315 lb | $1,725.00 |
| **106916** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 315 lb | $1,725.00 |
| **115 VAC Measurement Canada Approved (120)** | | | | |
| **78776** | 4 ft x 4 ft x 3.625 in | 2,500 lb x 0.5 kg | 315 lb | $1,575.00 |
| **78777** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 kg | 315 lb | $1,575.00 |
| **115 VAC Measurement Canada Approved (120 PLUS)** | | | | |
| **106917** | 4 ft x 4 ft x 3.625 in | 2,500 lb x 0.5 kg | 315 lb | $1,725.00 |
| **106918** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 kg | 315 lb | $1,725.00 |
| **Floor Scale and Indicator Package (Five-scale Package)** | | | | |
| Packages include five Summit® 3000 floor scales, five 120/120 Plus digital weight indicators with tilt stands, five 20 ft load cell cables with quick disconnect, configured and calibrated | | | | |
| **115 VAC (120)** | | | | |
| **78774** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 1,665 lb | $7,575.00 |
| **78775** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 1,665 lb | $7,575.00 |
| **115 VAC (120 Plus)** | | | | |
| **106929** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 1,665 lb | $8,325.00 |
| **106930** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 1,665 lb | $8,325.00 |
| **230 VAC (120)** | | | | |
| **78782** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 1,665 lb | $7,575.00 |
| **78783** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 1,665 lb | $7,575.00 |
| **230 VAC (120 Plus)** | | | | |
| **106931** | 4 ft x 4 ft x 3.625 in | 5,000 lb x 1 lb | 1,665 lb | $8,325.00 |
| **106932** | 4 ft x 4 ft x 3.625 in | 10,000 lb x 2 lb | 1,665 lb | $8,325.00 |
| **115 VAC Measurement Canada Approved (120)** | | | | |
| **78778** | 4 ft x 4 ft x 3.625 in | 2,500 kg x 0.5 kg | 1,665 lb | $7,575.00 |
| **78779** | 4 ft x 4 ft x 3.625 in | 5,000 kg x 1 kg | 1,665 lb | $7,575.00 |
| **115 VAC Measurement Canada Approved (120 Plus)** | | | | |
| **106933** | 4 ft x 4 ft x 3.625 in | 2,500 kg x 0.5 kg | 1,665 lb | $8,325.00 |
| **106934** | 4 ft x 4 ft x 3.625 in | 5,000 kg x 1 kg | 1,665 lb | $8,325.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Summit® 3000 Floor Scale** | | |
| **Consult** | Access ramps, pit frames, bumper guards and portability frames available | See end of section for details |
| **75819** | Floor anchor plates, mild steel (set of two) | $35.00 |
| **76012** | Additional operating manual | $10.00 |
| **120 Digital Weight Indicator** | | |
| **77925** | Revolution® scale software | $35.00 |
| **103636** | Power supply, 120 Plus wall adapter, 115/230 VAC, 5 VDC | $40.00 |
| **76699** | Additional operating manual | $31.00 |
| **19352** | RoughDeck floor stand for indicator, 36.3 in high, mild steel | $235.00 |
| **126384** | RoughDeck floor stand for indicator, 48 in high, mild steel | $260.00 |

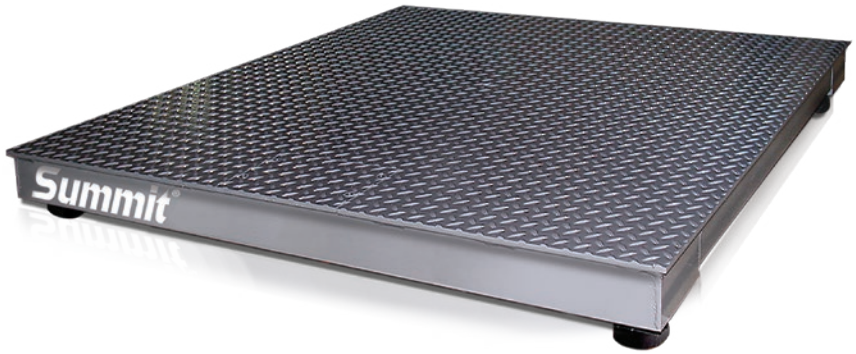




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# Summit® 3000

Low-profile Floor Scale




## Specifications

**End Load Capacity:**
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

**Cable Length:**
20 ft (6.1 m) for connecting junction box to indicator

**Warranty:**
Summit 3000 weldment and load cells two years, all other components one year

**Approvals:**
NTEP CC 92-001A9, Class III 5,000 d
Measurement Canada AM-5530, Class III 5,000 d (2,500 kg, 5,000 kg) 2,000 d (1,000 kg)

## Standard Features

- Four NTEP Certified alloy steel shear-beam load cells
- Top access junction box
- Rugged diamond safety treadplate steel deck
- Four adjustable rigid polyurethane rubber feet, 3 in (76.2 mm) diameter
- Signal trim summing board housed in ABS enclosure
- Threaded eyebolt hole (1/2-20NF) located in the center of the deck for easy lifting
- 20 ft of EL147 load cell cable. The load cell cable exits weldment toward the interior of scale, allowing flexibility to route out any side of scale to digital weight indicator.

## APPROVALS



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## Part Number/Price

| Part # | Size (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Single Scale** | | | | |
| **74715** | 3 ft x 3 ft x 3.625 in | 2,000 lb | 190 lb | $1,250.00 |
| **74716** | 4 ft x 4 ft x 3.625 in | 2,000 lb | 305 lb | $1,350.00 |
| **74717** | 4 ft x 4 ft x 3.625 in | 5,000 lb | 305 lb | $1,350.00 |
| **74718** | 4 ft x 4 ft x 3.625 in | 10,000 lb | 305 lb | $1,350.00 |
| **74719** | 4 ft x 5 ft x 3.625 in | 5,000 lb | 395 lb | $1,450.00 |
| **74720** | 4 ft x 5 ft x 3.625 in | 10,000 lb | 445 lb | $1,650.00 |
| **74721** | 4 ft x 6 ft x 3.625 in | 5,000 lb | 470 lb | $1,550.00 |
| **74722** | 4 ft x 6 ft x 3.625 in | 10,000 lb | 525 lb | $1,850.00 |
| **74723** | 5 ft x 5 ft x 3.625 in | 5,000 lb | 505 lb | $1,550.00 |
| **74724** | 5 ft x 5 ft x 3.625 in | 10,000 lb | 575 lb | $1,850.00 |
| **Single Scale–Measurement Canada Approved** | | | | |
| **77440** | 3 ft x 3 ft x 3.625 in | 1,000 kg | 190 lb | $1,250.00 |
| **77373** | 4 ft x 4 ft x 3.625 in | 1,000 kg | 305 lb | $1,350.00 |
| **77346** | 4 ft x 4 ft x 3.625 in | 2,500 kg | 305 lb | $1,350.00 |
| **77347** | 4 ft x 4 ft x 3.625 in | 5,000 kg | 305 lb | $1,350.00 |
| **82880** | 4 ft x 5 ft x 3.625 in | 2,500 kg | 395 lb | $1,450.00 |
| **82881** | 4 ft x 5 ft x 3.625 in | 5,000 kg | 445 lb | $1,650.00 |
| **77348** | 5 ft x 5 ft x 3.625 in | 2,500 kg | 505 lb | $1,550.00 |
| **77349** | 5 ft x 5 ft x 3.625 in | 5,000 kg | 575 lb | $1,850.00 |
| **Five-Scale Package** | | | | |
| **75809** | 3 ft x 3 ft x 3.625 in | 2,000 lb | 850 lb | $6,000.00 |
| **75810** | 4 ft x 4 ft x 3.625 in | 2,000 lb | 1,400 lb | $6,500.00 |
| **75811** | 4 ft x 4 ft x 3.625 in | 5,000 lb | 1,400 lb | $6,500.00 |
| **75812** | 4 ft x 4 ft x 3.625 in | 10,000 lb | 1,400 lb | $6,500.00 |
| **75813** | 4 ft x 5 ft x 3.625 in | 5,000 lb | 1,870 lb | $7,000.00 |
| **75814** | 4 ft x 5 ft x 3.625 in | 10,000 lb | 2,115 lb | $8,000.00 |
| **75815** | 4 ft x 6 ft x 3.625 in | 5,000 lb | 2,210 lb | $7,500.00 |
| **75816** | 4 ft x 6 ft x 3.625 in | 10,000 lb | 2,495 lb | $9,000.00 |
| **75817** | 5 ft x 5 ft x 3.625 in | 5,000 lb | 2,325 lb | $7,500.00 |
| **75818** | 5 ft x 5 ft x 3.625 in | 10,000 lb | 2,675 lb | $9,000.00 |
| **Five-Scale–Measurement Canada Approved** | | | | |
| **77472** | 3 ft x 3 ft x 3.625 in | 1,000 kg | 850 lb | $6,000.00 |
| **77473** | 4 ft x 4 ft x 3.625 in | 1,000 kg | 1,400 lb | $6,500.00 |
| **77474** | 4 ft x 4 ft x 3.625 in | 2,500 kg | 1,400 lb | $6,500.00 |
| **77475** | 4 ft x 4 ft x 3.625 in | 5,000 kg | 1,400 lb | $6,500.00 |
| **82885** | 4 ft x 5 ft x 3.625 in | 2,500 kg | 1,870 lb | $7,000.00 |
| **82886** | 4 ft x 5 ft x 3.625 in | 5,000 kg | 2,115 lb | $8,000.00 |
| **77476** | 5 ft x 5 ft x 3.625 in | 2,500 kg | 2,325 lb | $7,500.00 |
| **77477** | 5 ft x 5 ft x 3.625 in | 5,000 kg | 2,675 lb | $9,000.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **75819** | Floor anchor plates, mild steel (set of two) | $35.00 |
| **Consult** | Top access foot adjust holes | $40.00 |
| **19352** | RoughDeck floor stand for indicator, 36.3 in high, mild steel | $235.00 |
| **126384** | RoughDeck floor stand for indicator, 48 in high, mild steel | $260.00 |

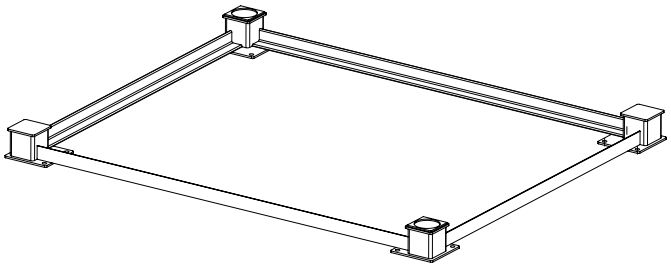
**For custom sizes or capacities, please consult factory for RoughDeck® HP pricing*



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# Floor Scale Pit Mounted Riser Stand

***Please complete and email this form to orderdesk@ricelake.com for pricing.***



## Standard Features

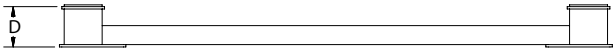
- Ideal for applications where you have an existing pit and the depth exceeds the standard pit depth for the scale
- Designed to be anchored to pit floor (anchor bolts not included)

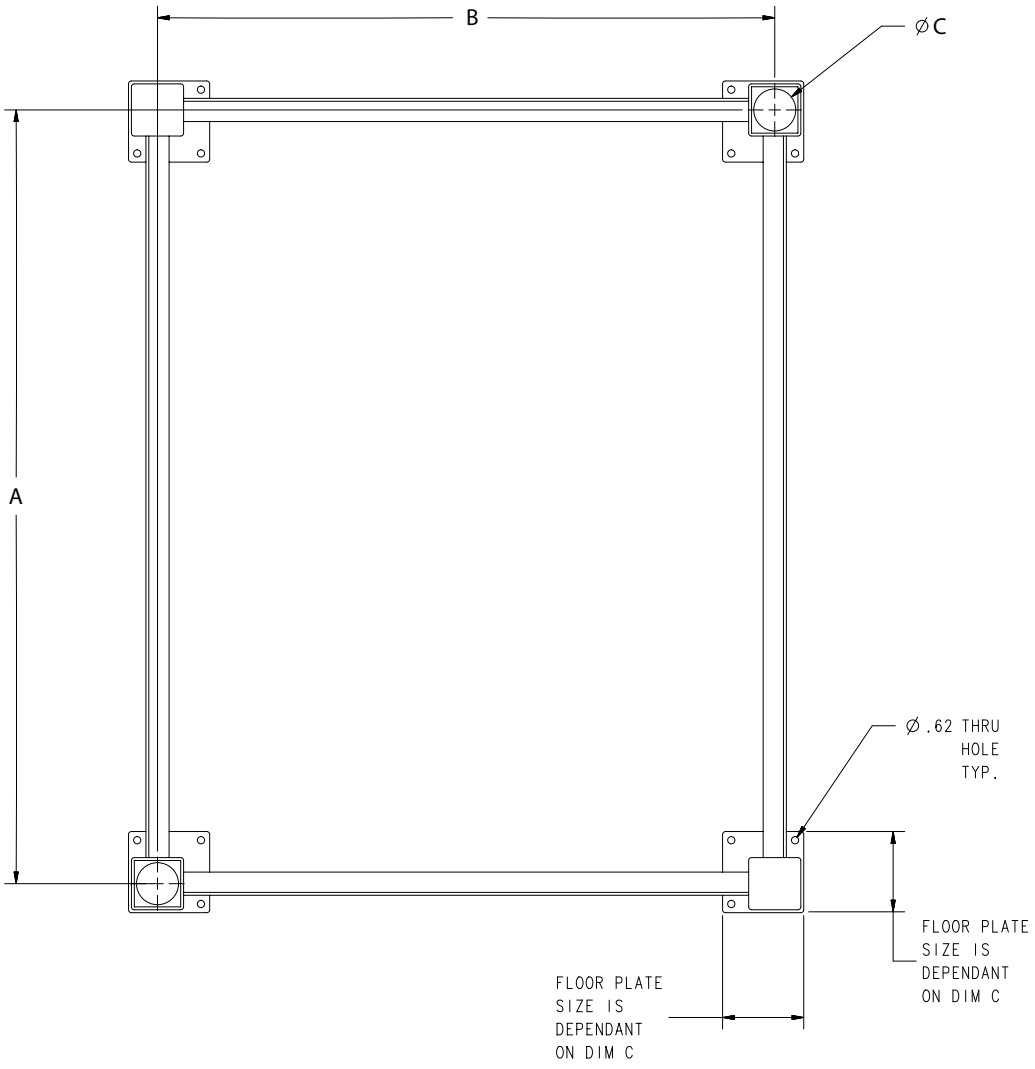
**Painted Mild Steel:** ❑

**Stainless Steel:** ❑

**Scale Capacity:** _____

| | |
|---|---|
| A | |
| B | |
| C | |
| D | |






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# RoughDeck® Access Ramps



## RoughDeck Access Ramps

| Part # | Size (W x L x H) | Est. Weight | Price |
|---|---|---|---|
| **RoughDeck HP: 1,000–10,000 lb (diamond treadplate standard)** | | | |
| **69040*** | 2.5 ft x 3 ft x 3.5 in | 115 lb | $365.00 |
| **69041*** | 3 ft x 3 ft x 3.5 in | 133 lb | $390.00 |
| **69042*** | 4 ft x 3 ft x 3.5 in | 177 lb | $425.00 |
| **69043*** | 5 ft x 3 ft x 3.5 in | 226 lb | $480.00 |
| **69184** | 2.5 ft x 4 ft x 3.5 in | 152 lb | $425.00 |
| **69185** | 3 ft x 4 ft x 3.5 in | 177 lb | $455.00 |
| **69186** | 4 ft x 4 ft x 3.5 in | 224 lb | $505.00 |
| **69187** | 5 ft x 4 ft x 3.5 in | 272 lb | $540.00 |
| **RoughDeck HP-H: 20,000 lb (diamond treadplate standard)** | | | |
| **69204** | 4 ft x 4 ft x 4 in | 487 lb | $900.00 |
| **69205** | 5 ft x 4 ft x 4 in | 591 lb | $1,025.00 |
| **69206** | 6 ft x 4 ft x 4 in | 689 lb | $1,080.00 |
| **69207** | 7 ft x 4 ft x 4 in | 822 lb | $1,255.00 |
| **69208** | 8 ft x 4 ft x 4 in | 1005 lb | $1,390.00 |
| **RoughDeck HP-H: 30,000 lb (diamond treadplate standard)** | | | |
| **69210** | 4 ft x 5 ft x 5 in | 666 lb | $1,115.00 |
| **69211** | 5 ft x 5 ft x 5 in | 806 lb | $1,240.00 |
| **69212** | 6 ft x 5 ft x 5 in | 942 lb | $1,360.00 |
| **69213** | 7 ft x 5 ft x 5 in | 1116 lb | $1,540.00 |
| **69214** | 8 ft x 5 ft x 5 in | 1337 lb | $1,780.00 |
| **RoughDeck SS and HE: 1,000–10,000 lb (diamond treadplate standard)** | | | |
| **69178*** | 2.5 ft x 3 ft x 3.5 in | 115 lb | $945.00 |
| **69179*** | 3 ft x 3 ft x 3.5 in | 133 lb | $945.00 |
| **69180*** | 4 ft x 3 ft x 3.5 in | 177 lb | $1,155.00 |
| **69189** | 2.5 ft x 4 ft x 3.5 in | 152 lb | $1,050.00 |
| **69190** | 3 ft x 4 ft x 3.5 in | 177 lb | $1,155.00 |
| **69191** | 4 ft x 4 ft x 3.5 in | 224 lb | $1,570.00 |
| **69192** | 5 ft x 4 ft x 3.5 in | 272 lb | $1,770.00 |

** Not recommended for use with pallet jacks*

*NOTE: Approach length must match width of ramp with width of scale*

*NOTE: Part numbered ramps are designed to fit scale on sides perpendicular to junction box. The junction box is always on longest side of scale unless specified differently.*

*NOTE: Part numbered ramps are designed to fit scale sides A or C, if you need a ramp to fit scale side B or D please request a quote for a special ramp*

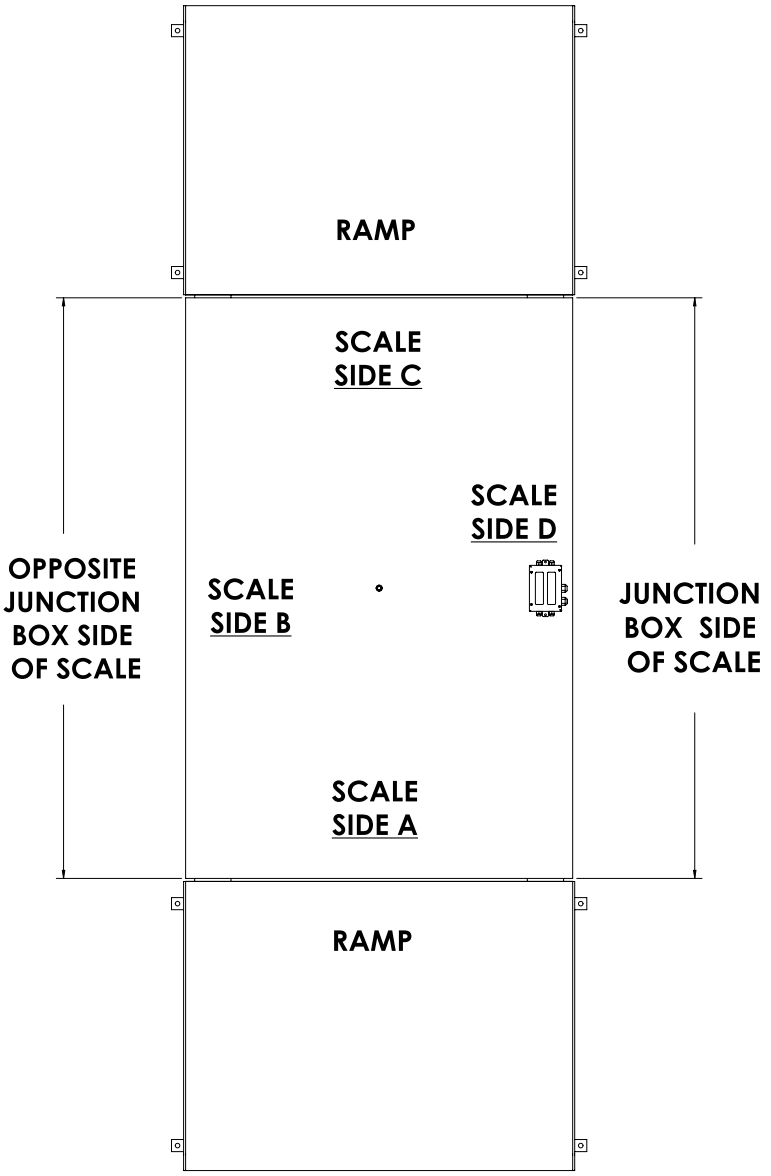
## Options/Accessories

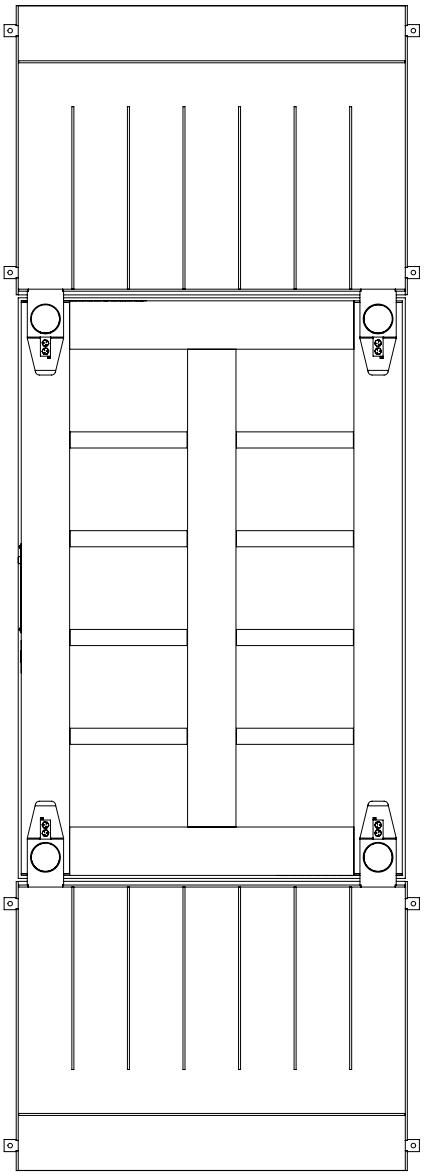
| Part # | Description | Price |
|---|---|---|
| **Consult** | Epoxy paint | +$90.00 list price add-on |



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# RoughDeck® Access Ramps



*Underdeck View*

*Part numbered ramps are designed to fit scale sides A or C, if you need a ramp to fit scale side B or D please request a quote for a special ramp.*

*The junction box is always on the longest side of the scale unless specified differently.*



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# RoughDeck® Pit Frames



*Roughdeck*

## RoughDeck

| Part # | Size (W x L) | Est. Weight | Price |
|---|---|---|---|
| **RoughDeck HP: 1,000 lb–10,000 lb** | | | |
| **18757** | 2.5 ft x 2.5 ft | 88 lb | $335.00 |
| **18759** | 3 ft x 3 ft | 102 lb | $370.00 |
| **18761** | 4 ft x 4 ft | 127 lb | $475.00 |
| **18763** | 5 ft x 5 ft | 154 lb | $590.00 |
| **18765** | 4 ft x 5 ft | 140 lb | $535.00 |
| **18767** | 4 ft x 6 ft | 157 lb | $590.00 |
| **18769** | 5 ft x 6 ft | 172 lb | $650.00 |
| **18771** | 5 ft x 7 ft | 185 lb | $695.00 |
| **RoughDeck HP-H: 20,000 lb** | | | |
| **39595** | 4 ft x 4 ft | 309 lb | $585.00 |
| **39596** | 4 ft x 5 ft | 352 lb | $625.00 |
| **39597** | 4 ft x 6 ft | 391 lb | $675.00 |
| **39598** | 4 ft x 7 ft | 459 lb | $770.00 |
| **39599** | 5 ft x 5 ft | 411 lb | $705.00 |
| **39600** | 5 ft x 6 ft | 460 lb | $805.00 |
| **39601** | 5 ft x 7 ft | 473 lb | $840.00 |
| **39602** | 6 ft x 6 ft | 583 lb | $935.00 |
| **39603** | 6 ft x 7 ft | 597 lb | $970.00 |
| **39604** | 6 ft x 8 ft | 610 lb | $1,025.00 |
| **39605** | 7 ft x 9 ft | 683 lb | $1,090.00 |
| **39606** | 7 ft x 10 ft | 781 lb | $1,150.00 |
| **39607** | 8 ft x 10 ft | 795 lb | $1,195.00 |
| **RoughDeck HP-H: 30,000 lb** | | | |
| **39608** | 4 ft x 4 ft | 356 lb | $695.00 |
| **39609** | 4 ft x 5 ft | 402 lb | $730.00 |
| **39610** | 4 ft x 6 ft | 444 lb | $795.00 |
| **39611** | 4 ft x 7 ft | 516 lb | $875.00 |
| **39612** | 5 ft x 5 ft | 464 lb | $840.00 |
| **39613** | 5 ft x 6 ft | 498 lb | $890.00 |
| **39614** | 5 ft x 7 ft | 533 lb | $935.00 |
| **39615** | 6 ft x 6 ft | 643 lb | $1,085.00 |
| **39619** | 7 ft x 10 ft | 850 lb | $1,210.00 |
| **39620** | 8 ft x 10 ft | 875 lb | $1,255.00 |
| **RoughDeck SS and HE: 1,000 lb - 10,000 lb** | | | |
| **18758** | 2.5 ft x 2.5 ft | 88 lb | $910.00 |
| **18760** | 3 ft x 3 ft | 102 lb | $910.00 |
| **18762** | 4 ft x 4 ft | 127 lb | $1,210.00 |
| **18764** | 5 ft x 5 ft | 154 lb | $1,500.00 |
| **18766** | 4 ft x 5 ft | 140 lb | $1,355.00 |
| **18772** | 5 ft x 7 ft | 185 lb | $1,785.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Epoxy paint | +$90.00 list price add-on |





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# Summit® 3000 Access Ramps



*Summit Access Ramps*

## Summit Ramps

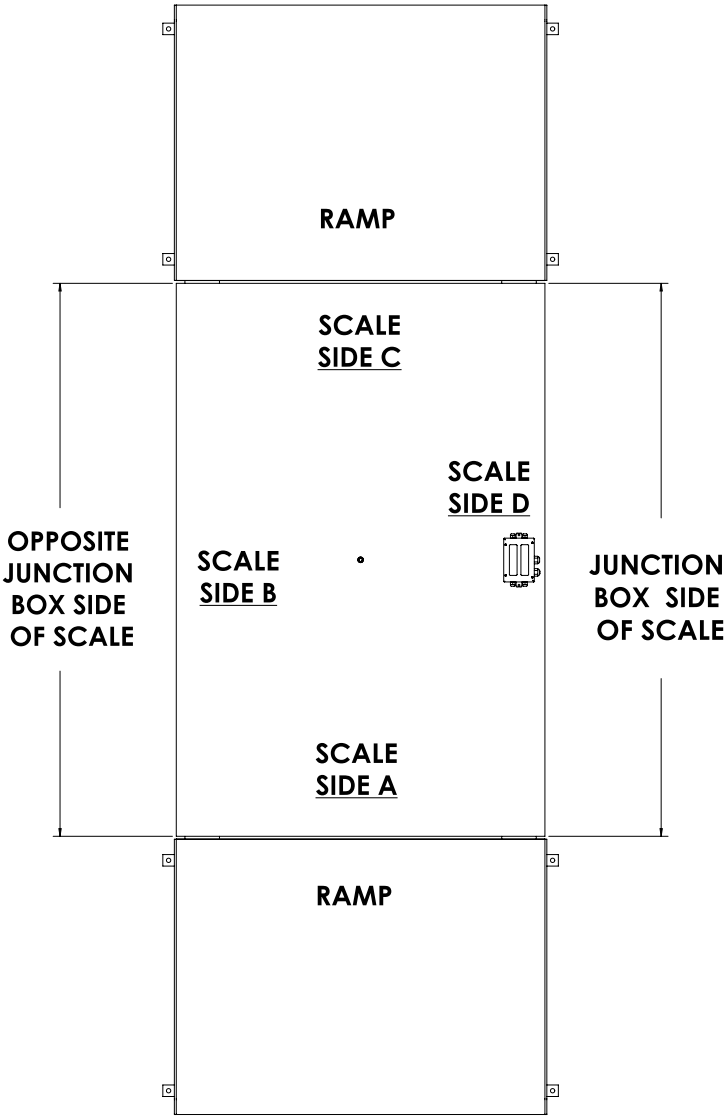
| Part # | Size (W x L x H) (Diamond Treadplate Standard) | Est. Weight | Price |
|---|---|---|---|
| **74953*** | 3 ft x 3 ft x 3.625 in | 133 lb | $390.00 |
| **74954*** | 4 ft x 3 ft x 3.625 in | 177 lb | $425.00 |
| **74955*** | 5 ft x 3 ft x 3.625 in | 226 lb | $480.00 |
| **74956** | 3 ft x 4 ft x 3.625 in | 177 lb | $455.00 |
| **74957** | 4 ft x 4 ft x 3.625 in | 224 lb | $505.00 |
| **74958** | 5 ft x 4 ft x 3.625 in | 272 lb | $540.00 |

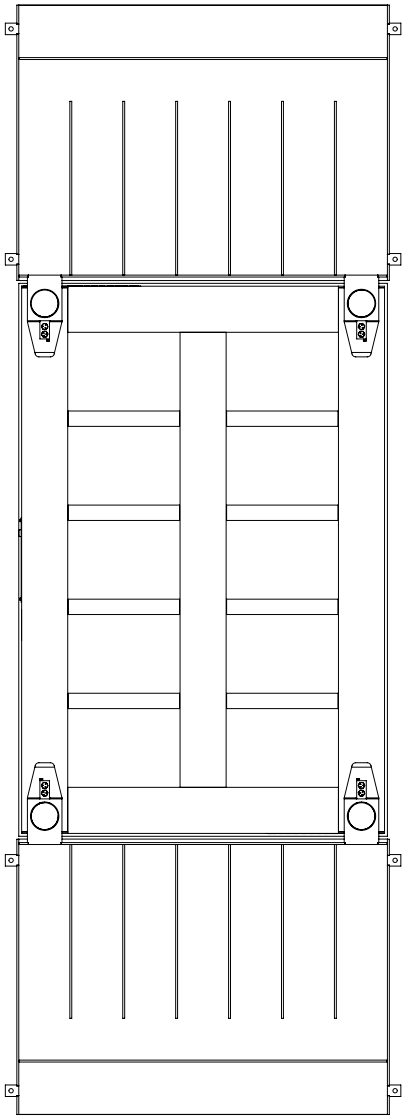
** Not recommended for use with pallet jacks*

*NOTE: Approach length must match width of ramp with width of scale*

*NOTE: Part numbered ramps are designed to fit scale on sides perpendicular to junction box. The junction box is always on longest side of scale unless specified differently.*

*Part numbered ramps are designed to fit scale sides A or C, if you need a ramp to fit scale side B or D please request a quote for a special ramp*



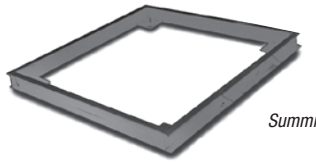



*Underdeck View*



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# Summit® 3000 Pit Frames



*Summit Pit Frames*

## Summit Pit Frames

| Part # | Size (W x L) | Est. Weight | Price |
|---|---|---|---|
| **75036** | 3 ft x 3 ft | 100 lb | $370.00 |
| **75037** | 4 ft x 4 ft | 125 lb | $475.00 |
| **75040** | 5 ft x 5 ft | 155 lb | $590.00 |
| **75038** | 4 ft x 5 ft | 140 lb | $535.00 |
| **75039** | 4 ft x 6 ft | 157 lb | $590.00 |

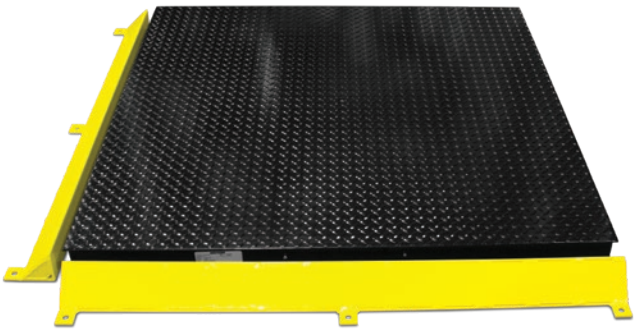


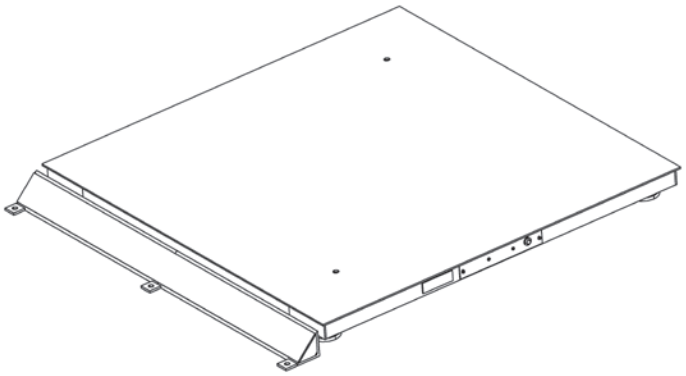


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# Bumper Guards

Option A





**Anchor bolt size required:**
1/2 in dia (Not included)

**Construction:**
RoughDeck® HP and HP-H versions
(Mild steel, painted safety yellow)
RoughDeck SS/HE (304 stainless steel)

## Part Number/Price

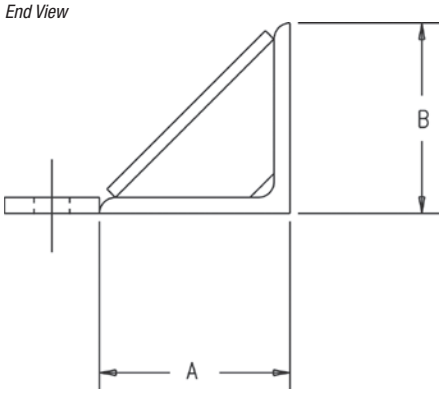
| Length | RoughDeck HP | Price Each | RoughDeck SS/HE | Price Each | RoughDeck HP-H | Price Each |
|---|---|---|---|---|---|---|
| 2.5 ft | **86815** | $125.00 | **86824** | $215.00 | **86833** | $215.00 |
| 3.0 ft | **86816** | $150.00 | **86825** | $255.00 | **86834** | $255.00 |
| 4.0 ft | **86817** | $200.00 | **86826** | $340.00 | **86835** | $340.00 |
| 5.0 ft | **86818** | $250.00 | **86827** | $425.00 | **86836** | $425.00 |
| 6.0 ft | **86819** | $300.00 | **86828** | $510.00 | **86837** | $510.00 |
| 7.0 ft | **86820** | $350.00 | **86829** | $595.00 | **86838** | $595.00 |
| 8.0 ft | **86821** | $400.00 | **86830** | $680.00 | **86839** | $680.00 |
| 9.0 ft | **86822** | $450.00 | **86831** | $765.00 | **86840** | $765.00 |
| 10.0 ft | **86823** | $500.00 | **86832** | $850.00 | **86841** | $850.00 |

## Accessories

| Part # | Description | Price |
|---|---|---|
| **18777** | Floor anchor plates, mild steel (set of two), RoughDeck HP | $35.00 |
| **18778** | Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE | $45.00 |
| **40387** | Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20,000 lb | $48.00 |
| **40388** | Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30,000 lb | $48.00 |

| Drawing Dimensions | | |
|---|---|---|
| **Model** | **A** | **B** |
| RoughDeck HP | 3 in | 3 in |
| RoughDeck SS/HE | 3 in | 3 in |
| RoughDeck HP-H | 4 in | 4 in |

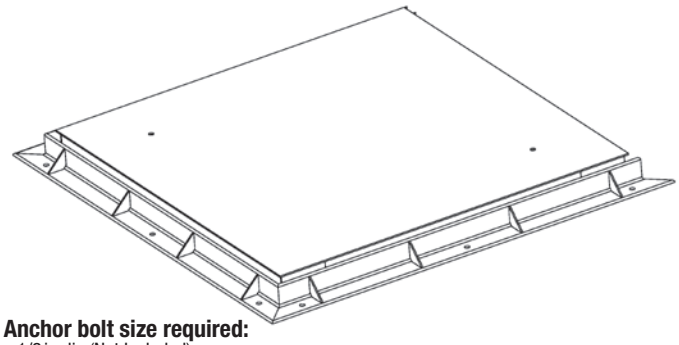
*End View*

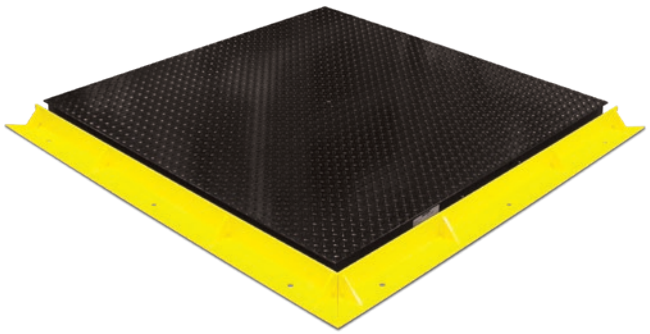





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# Bumper Guards
Option B





**Anchor bolt size required:**
1/2 in dia (Not Included)

**Construction:**
RoughDeck® HP and HP-H versions
(Mild steel, painted safety yellow)
RoughDeck SS/HE (304 stainless steel)

*Note: If you plan to surround scale on all four sides with bumper guards, option B, please contact factory as a special bumper guard must be made to accommodate the home run cable exit.*

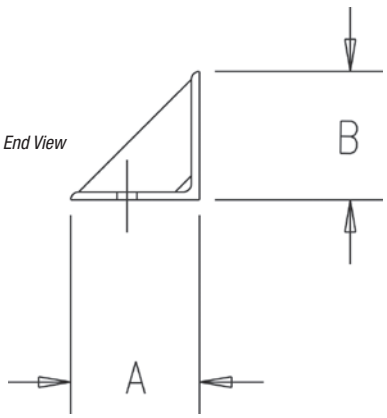
## Part Number/Price

| Length | RoughDeck HP | Price Each | RoughDeck SS/HE | Price Each | RoughDeck HP-H | Price Each |
|---|---|---|---|---|---|---|
| 2.5 ft | **86843** | $120.00 | **86852** | $175.00 | **86861** | $175.00 |
| 3.0 ft | **86844** | $145.00 | **86853** | $210.00 | **86862** | $210.00 |
| 4.0 ft | **86845** | $195.00 | **86854** | $280.00 | **86863** | $280.00 |
| 5.0 ft | **86846** | $240.00 | **86855** | $350.00 | **86864** | $350.00 |
| 6.0 ft | **86847** | $290.00 | **86856** | $420.00 | **86865** | $420.00 |
| 7.0 ft | **86848** | $340.00 | **86857** | $490.00 | **86866** | $490.00 |
| 8.0 ft | **86849** | $385.00 | **86858** | $560.00 | **86867** | $560.00 |
| 9.0 ft | **86850** | $435.00 | **86859** | $630.00 | **86868** | $630.00 |
| 10.0 ft | **86851** | $480.00 | **86860** | $700.00 | **86869** | $700.00 |

## Accessories

| Part # | Description | Price |
|---|---|---|
| **18777** | Floor anchor plates, mild steel (set of two), RoughDeck HP | $35.00 |
| **18778** | Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE | $45.00 |
| **40387** | Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20,000 lb | $48.00 |
| **40388** | Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30,000 lb | $48.00 |

| Drawing Dimensions | | |
|---|---|---|
| **Model** | **A** | **B** |
| RoughDeck HP | 3 in | 3 in |
| RoughDeck SS/HE | 3 in | 3 in |
| RoughDeck HP-H | 4 in | 4 in |



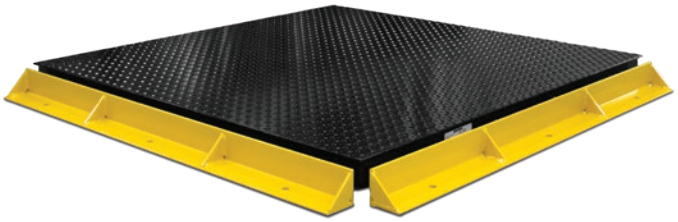


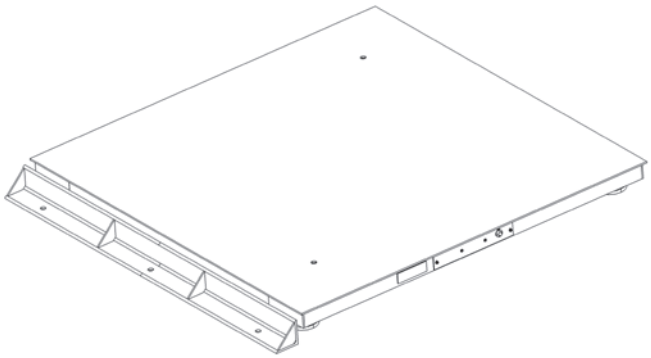



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# Bumper Guards

Option C





**Anchor bolt size required:**
1/2 in dia (not included)

**Construction:**
RoughDeck® HP and HP-H versions
(Mild steel, painted safety yellow)
RoughDeck SS/HE
(304 stainless steel)

## Part Number/Price

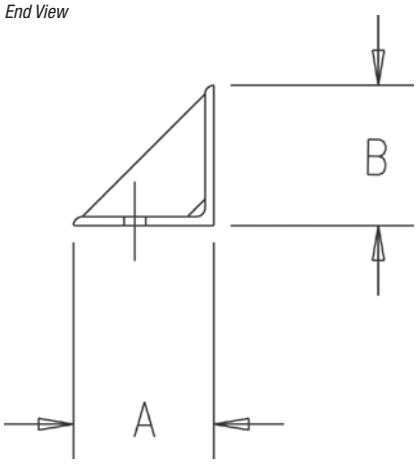
| Length | RoughDeck HP | Price Each | RoughDeck SS/HE | Price Each | RoughDeck HP-H | Price Each |
|---|---|---|---|---|---|---|
| 2.5 ft | **86870** | $80.00 | **86879** | $180.00 | **86888** | $180.00 |
| 3.0 ft | **86871** | $100.00 | **86880** | $220.00 | **86889** | $220.00 |
| 4.0 ft | **86872** | $130.00 | **86881** | $295.00 | **86890** | $295.00 |
| 5.0 ft | **86873** | $160.00 | **86882** | $365.00 | **86891** | $365.00 |
| 6.0 ft | **86874** | $195.00 | **86883** | $440.00 | **86892** | $440.00 |
| 7.0 ft | **86875** | $225.00 | **86884** | $510.00 | **86893** | $510.00 |
| 8.0 ft | **86876** | $260.00 | **86885** | $590.00 | **86894** | $590.00 |
| 9.0 ft | **86877** | $290.00 | **86886** | $660.00 | **86895** | $660.00 |
| 10.0 ft | **86878** | $320.00 | **86887** | $730.00 | **86896** | $730.00 |

## Accessories

| Part # | Description | Price |
|---|---|---|
| **18777** | Floor anchor plates, mild steel (set of two), RoughDeck HP | $35.00 |
| **18778** | Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE | $45.00 |
| **40387** | Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20,000 lb | $48.00 |
| **40388** | Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30,000 lb | $48.00 |

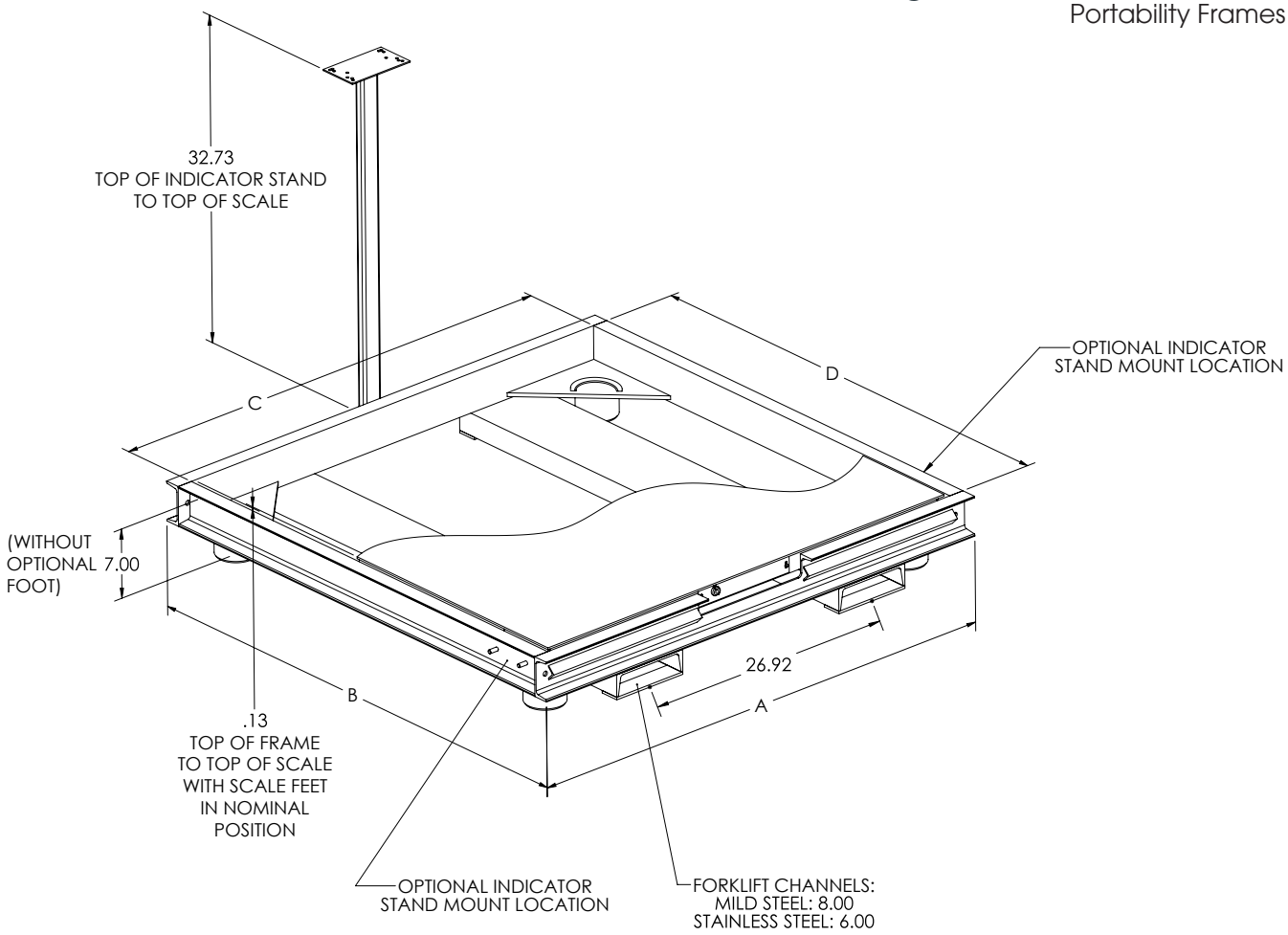
| Drawing Dimensions | | |
|---|---|---|
| **Model** | **A** | **B** |
| RoughDeck HP | 3 in | 3 in |
| RoughDeck SS/HE | 3 in | 3 in |
| RoughDeck HP-H | 4 in | 4 in |

*End View*






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## Part Number/Price

| Part # | Size (W x L) | Est. Weight | Price |
|---|---|---|---|
| **RoughDeck HP Portability Frames** | | | |
| **164492** | 4 ft x 4 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket | 275 lb | $1,115.00 |
| **164493** | 5 ft x 5 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket | 400 lb | $1,230.00 |
| **RoughDeck SS Portability Frames** | | | |
| **164494** | 4 ft x 4 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket | 275 lb | $2,575.00 |
| **164495** | 5 ft x 5 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket | 400 lb | $2,875.00 |

*NOTE: Indicator stand mount bracket works with 120/120 Plus, 882IS/882IS Plus, 882IS/882IS Plus w/battery, 880/880 Plus, 480/480 Plus, 482/482 Plus, 680 Synergy*

*NOTE: Consult factory if you intend on using with a pallet jack.*

## Options

| Part # | Size (W x L) | Est. Weight | Price |
|---|---|---|---|
| **Options** | | | |
| **74574** | SST, Captured Ball Foot 3.00in diameter 1/2-20 UNF thread with jam nut | — | $58.00 |

| Portability Frame Dimensions | | |
|---|---|---|
| **4 ft x 4 ft** | | |
| A | Mild steel: 51.92 in (1,318 mm) | Stainless steel: 52.75 in (1,339 mm) |
| B | Mild steel: 51.92 in (1,318 mm) | Stainless steel: 52.75 in (1,339 mm) |
| C | 48.75 in (1,238 mm) | |
| D | 48.75 in (1,238 mm) | |
| **5 ft x 5 ft** | | |
| A | Mild steel: 63.92 in (1,623 mm) | Stainless steel: 64.75 in (1,644 mm) |
| B | Mild steel: 63.92 in (1,623 mm) | Stainless steel: 64.75 in (1,644 mm) |
| C | 60.75 in (1,543 mm) | |
| D | 60.75 in (1,543 mm) | |
| **Distance from floor to inside of strap on the fork entry (without optional foot)** | | |
| | Mild steel: 3/4 in | Stainless steel: 1/2 in |
| **Distance from inside of strap to top of the fork entry (without optional foot)** | | |
| | Mild steel: 2 in | Stainless steel: 2 1/4 in |

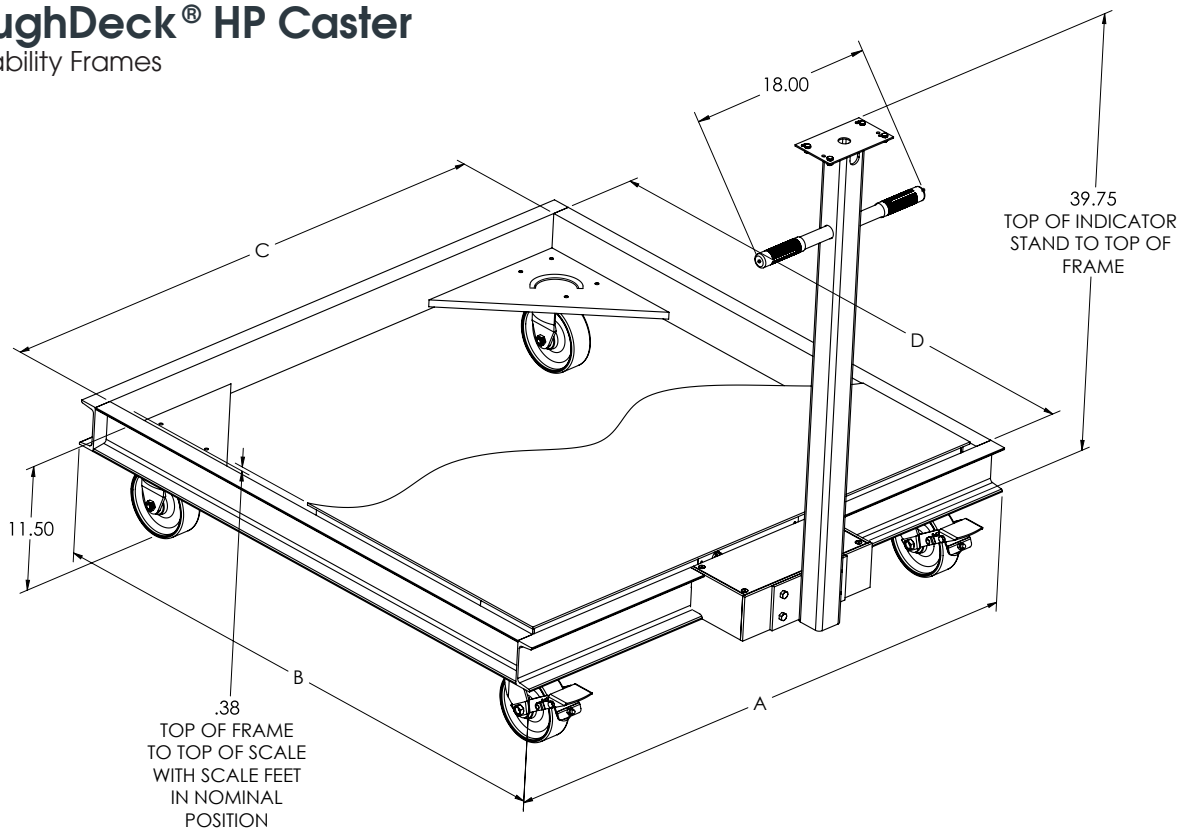




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# RoughDeck® HP Caster

Portability Frames




## Standard Features

- Painted mild steel
- Two rigid forged steel casters, two swivel forged steel caster with lock on back
- Casters for scales 1,000 lb-5,000 lb are rated for 1,500 lb each. Casters for 10,000 lb scale are rated for 4,000 lb each

## Part Number/Price

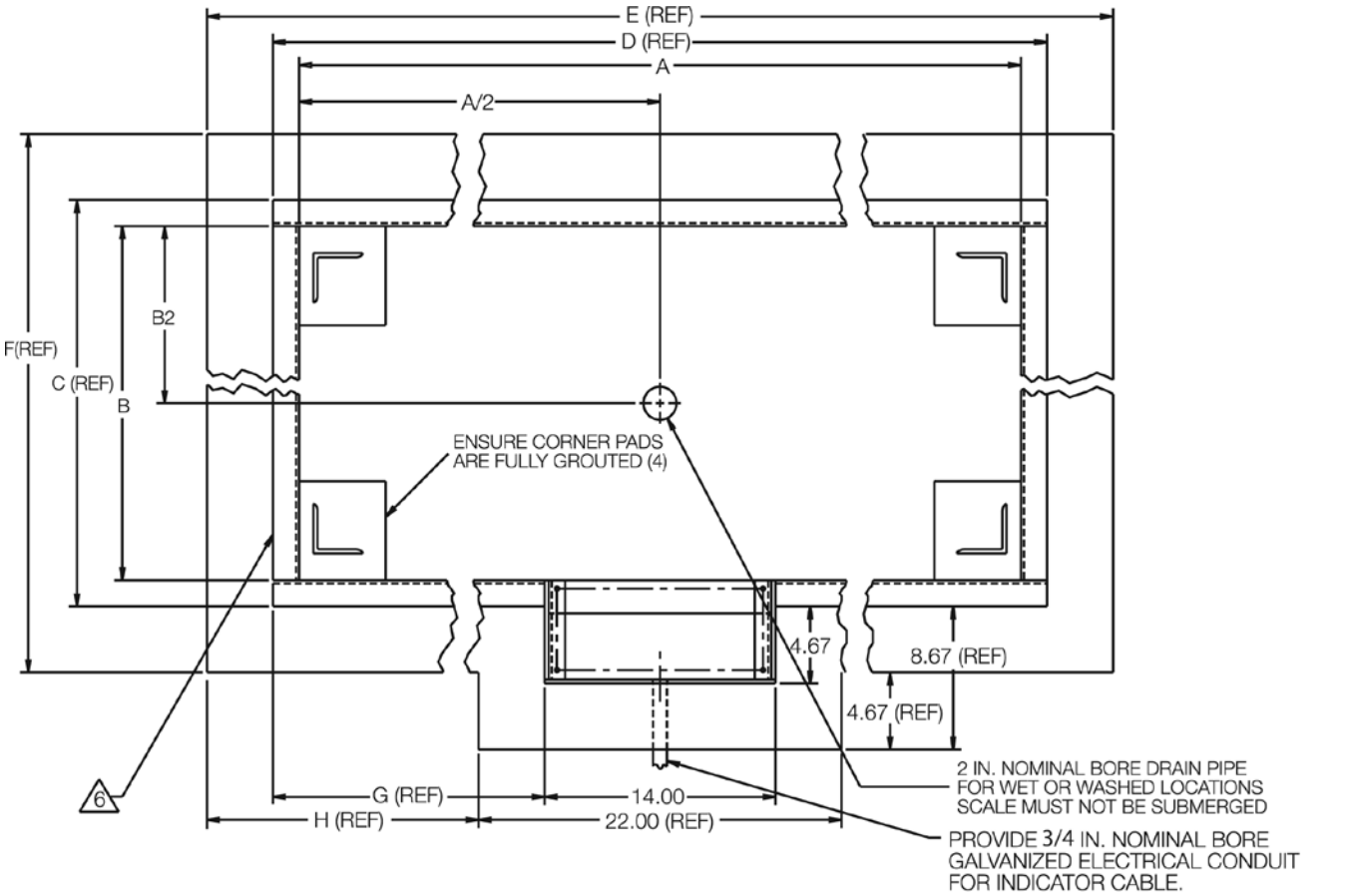
| Part # | Size (W x L x H) | Est. Weight | Price |
|---|---|---|---|
| **RoughDeck HP Caster Portability Frames** | | | |
| **157785** | 2.5 ft x 2.5 ft, for RoughDeck HP 1,000 lb to 5,000 lb | 220 lb | $1,995.00 |
| **157791** | 3 ft x 3 ft, for RoughDeck HP 1,000 lb to 5,000 lb | 240 lb | $1,995.00 |
| **157792** | 4 ft x 4 ft, for RoughDeck HP 1,000 lb to 5,000 lb | 260 lb | $1,995.00 |
| **157793** | 4 ft x 4 ft, for RoughDeck HP 10,000 lb | 260 lb | $2,235.00 |

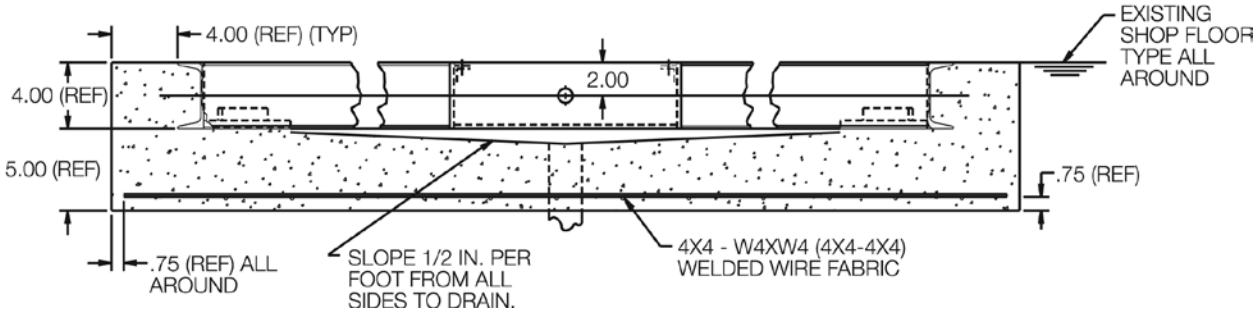
*NOTE: Indicator stand mount bracket works with 120/120 Plus, 882IS/882IS Plus, 882IS/882IS Plus w/battery, 880/880 Plus, 480/480 Plus, 482/482 Plus, 680 Synergy*

| Caster Portability Frame Dimensions | |
|---|---|
| **2.5 ft x 2.5 ft (1,000 lb-5,000 lb)** | |
| A | 33.92 |
| B | 33.92 |
| C | 30.75 |
| D | 30.75 |
| **3 ft x 3 ft (1,000 lb-5,000 lb)** | |
| A | 39.92 |
| B | 39.92 |
| C | 36.75 |
| D | 36.75 |
| **4 ft x 4 ft (1,000 lb-5,000 lb)** | |
| A | 51.92 |
| B | 51.92 |
| C | 48.75 |
| D | 48.75 |
| **4 ft x 4 ft (10,000 lb)** | |
| A | 51.92 |
| B | 51.92 |
| C | 48.75 |
| D | 48.75 |



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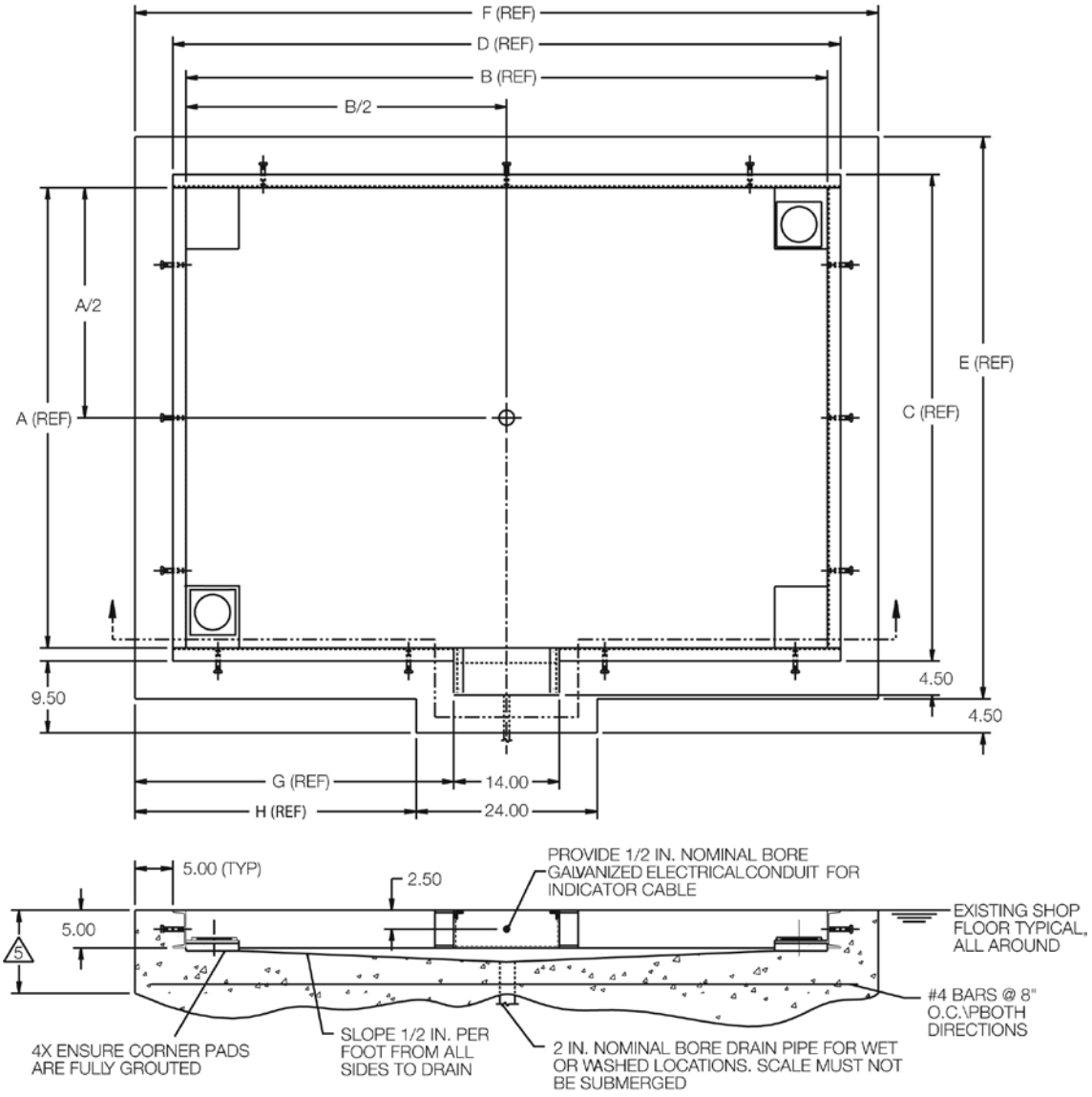

| Drawing Dimensions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Scale Size** | **2.5 ft x 2.5 ft** | **3 ft x 3 ft** | **4 ft x 4 ft** | **5 ft x 5 ft** | **4 ft x 5 ft** | **4 ft x 6 ft** | **5 ft x 6 ft** | **5 ft x 7 ft** |
| A | 30.75 | 36.75 | 48.75 | 60.75 | 60.75 | 72.75 | 72.75 | 84.75 |
| B | 30.75 | 36.75 | 48.75 | 60.75 | 48.75 | 48.75 | 60.75 | 60.75 |
| C | 33.92 | 39.92 | 51.92 | 63.92 | 51.92 | 51.92 | 63.92 | 63.92 |
| D | 33.92 | 39.92 | 51.92 | 63.92 | 63.92 | 75.92 | 75.92 | 87.92 |
| E | 41.92 | 47.95 | 59.92 | 71.92 | 71.92 | 83.92 | 83.92 | 95.92 |
| F | 41.92 | 47.95 | 59.92 | 71.92 | 59.92 | 59.92 | 71.92 | 71.92 |
| G | 9.96 | 12.96 | 18.96 | 24.96 | 24.96 | 30.96 | 30.96 | 36.96 |
| H | 9.96 | 12.96 | 18.96 | 24.96 | 24.96 | 30.96 | 30.96 | 36.96 |

*All dimensions are shown in inches. Drawing #S2944–Rev. D*
** Drawings are for standard catalog part numbered scales.*

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that junction box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75 in cover bottom and sides.
6. On stainless steel versions, two pieces of 2 in angle will be substituted for 4 in channel.

# RoughDeck® HP-H

Pit Frame Concrete Details* – 20,000lb Capacity




| Drawing Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|
| Scale Size | 4ft x 4ft | 4ft x 5ft | 4ft x 6ft | 4ft x 7ft | 5ft x 5ft | 5ft x 6ft | 5ft x 7ft |
| A | 49.00 | 49.00 | 49.00 | 49.00 | 61.00 | 61.00 | 61.00 |
| B | 49.00 | 61.00 | 73.00 | 85.00 | 61.00 | 73.00 | 85.00 |
| C | 52.50 | 52.50 | 52.50 | 52.50 | 64.50 | 64.50 | 64.50 |
| D | 52.50 | 64.50 | 76.50 | 88.50 | 64.50 | 76.50 | 88.50 |
| E | 62.50 | 62.50 | 62.50 | 62.50 | 74.50 | 74.50 | 74.50 |
| F | 62.50 | 74.50 | 86.50 | 98.50 | 74.50 | 86.50 | 98.50 |
| G | 24.25 | 30.25 | 36.25 | 42.25 | 30.25 | 36.25 | 42.25 |
| H | 19.25 | 25.25 | 31.35 | 37.25 | 25.25 | 31.35 | 37.25 |

| Drawing Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| Scale Size | 6ft x 6ft | 6ft x 7ft | 6ft x 8ft | 7ft x 9ft | 7ft x 10ft | 8ft x 10ft |
| A | 73.00 | 73.00 | 73.00 | 85.00 | 85.00 | 97.00 |
| B | 73.00 | 85.00 | 97.00 | 109.00 | 121.00 | 121.00 |
| C | 76.50 | 76.50 | 76.50 | 88.50 | 88.50 | 100.50 |
| D | 76.50 | 88.50 | 100.50 | 112.50 | 124.50 | 124.50 |
| E | 86.50 | 86.50 | 86.50 | 98.50 | 98.50 | 110.50 |
| F | 86.50 | 98.50 | 110.50 | 122.50 | 134.50 | 134.50 |
| G | 36.25 | 42.25 | 48.25 | 54.25 | 60.25 | 60.25 |
| H | 31.25 | 37.25 | 43.25 | 49.25 | 55.25 | 55.25 |

*All dimensions are shown in inches. Drawing #S2944A–Rev. A*

** Drawings are for standard catalog part numbered scales.*

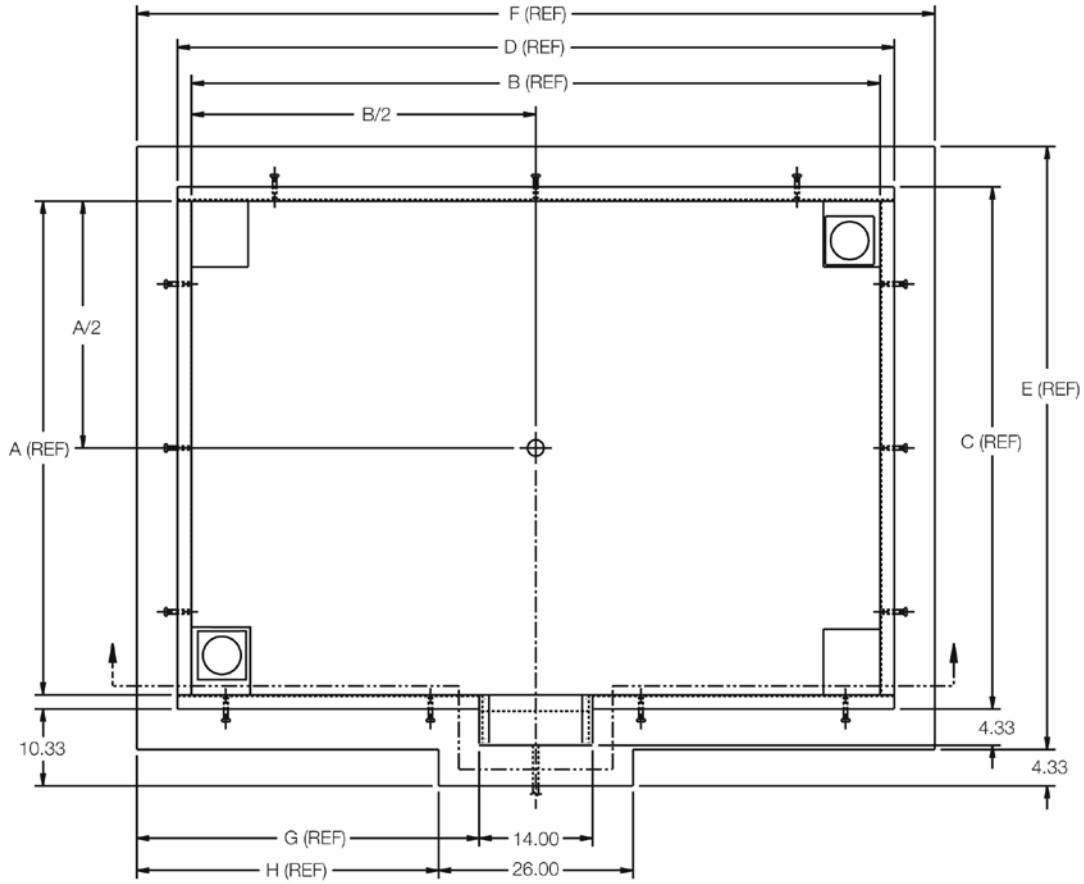
1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensure that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend use of hermetically sealed load cells, and that junction box be mounted remotely in a dry location.
5. For required depth of slab, or rebar requirements specific to your application, proper engineering consultation is recommended.

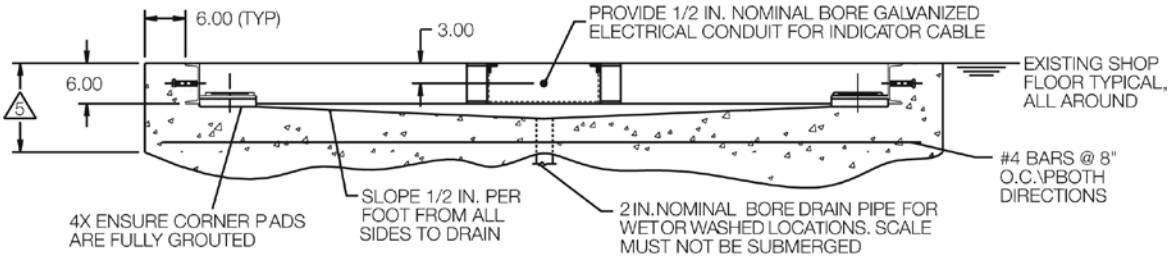


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# RoughDeck® HP-H

## Pit Frame Concrete Details* – 30,000 lb Capacity




| Drawing Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|
| Scale Size | 4 ft x 4 ft | 4 ft x 5 ft | 4 ft x 6 ft | 4 ft x 7 ft | 5 ft x 5 ft | 5 ft x 6 ft | 5 ft x 7 ft |
| A | 49.00 | 49.00 | 49.00 | 49.00 | 61.00 | 61.00 | 61.00 |
| B | 49.00 | 61.00 | 73.00 | 85.00 | 61.00 | 73.00 | 85.00 |
| C | 52.84 | 52.84 | 52.84 | 52.84 | 64.84 | 64.84 | 64.84 |
| D | 52.84 | 64.84 | 76.84 | 88.84 | 64.84 | 76.84 | 88.84 |
| E | 64.84 | 64.84 | 64.84 | 64.84 | 76.84 | 76.84 | 76.84 |
| F | 64.84 | 76.84 | 88.84 | 100.84 | 76.84 | 88.84 | 100.84 |
| G | 25.42 | 31.42 | 37.42 | 43.42 | 31.42 | 37.42 | 43.42 |
| H | 19.42 | 25.42 | 31.42 | 37.42 | 25.42 | 31.42 | 37.42 |

| Drawing Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| Scale Size | 6 ft x 6 ft | 6 ft x 7 ft | 6 ft x 8 ft | 7 ft x 9 ft | 7 ft x 10 ft | 8 ft x 10 ft |
| A | 73.00 | 73.00 | 73.00 | 85.00 | 85.00 | 97.00 |
| B | 73.00 | 85.00 | 97.00 | 109.00 | 121.00 | 121.00 |
| C | 76.84 | 76.84 | 76.84 | 88.84 | 88.84 | 100.84 |
| D | 76.84 | 88.84 | 100.84 | 112.84 | 124.84 | 124.84 |
| E | 88.84 | 88.84 | 88.84 | 100.84 | 100.84 | 112.84 |
| F | 88.84 | 100.84 | 112.84 | 112.84 | 136.84 | 136.84 |
| G | 37.42 | 43.42 | 49.42 | 55.42 | 61.42 | 61.42 |
| H | 31.42 | 37.42 | 43.42 | 49.42 | 55.42 | 55.42 |

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensure that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that junction box be mounted remotely in a dry location
5. For required depth of slab, or rebar requirements specific to your application, proper engineering consultation is recommended.

*All dimensions are shown in inches. Drawing #S2944B–Rev. A*
** Drawings are for standard catalog part numbered scales.*

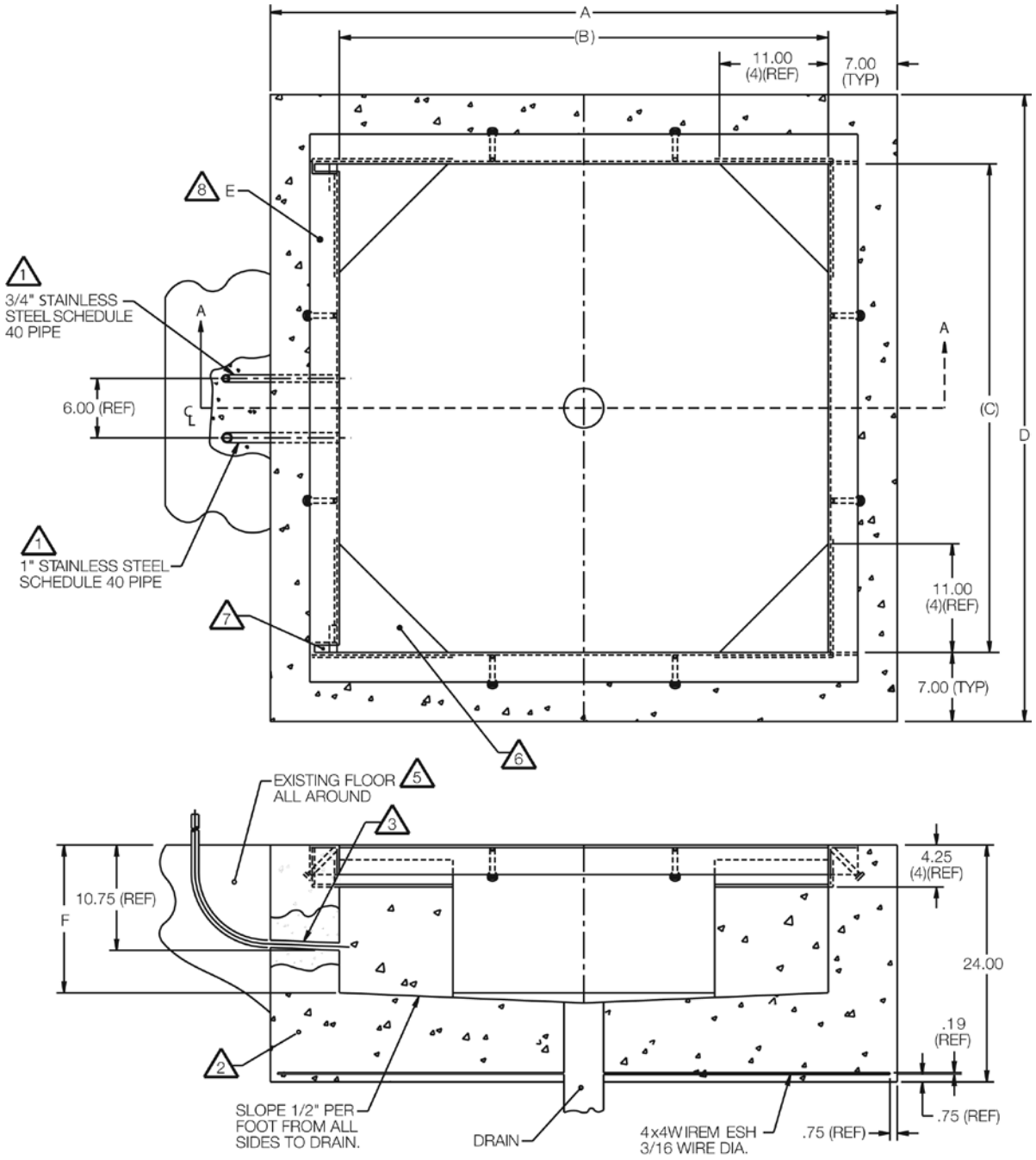




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# AutoLift HE

Pit Frame Concrete Details*




1. Length of pipe is determined on site.
2. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
3. Slope pipe slightly for water drainage.
4. Allow concrete 7 days to cure (wet concrete periodically during this time).
5. Tie pit in with existing floor with rebar if required.
6. Ensure underside is supported with concrete or grout (plate is an integral part of fra
7. Keep pocket free of concrete.
8. Coping must sit level in floor to allow proper operation of scale.

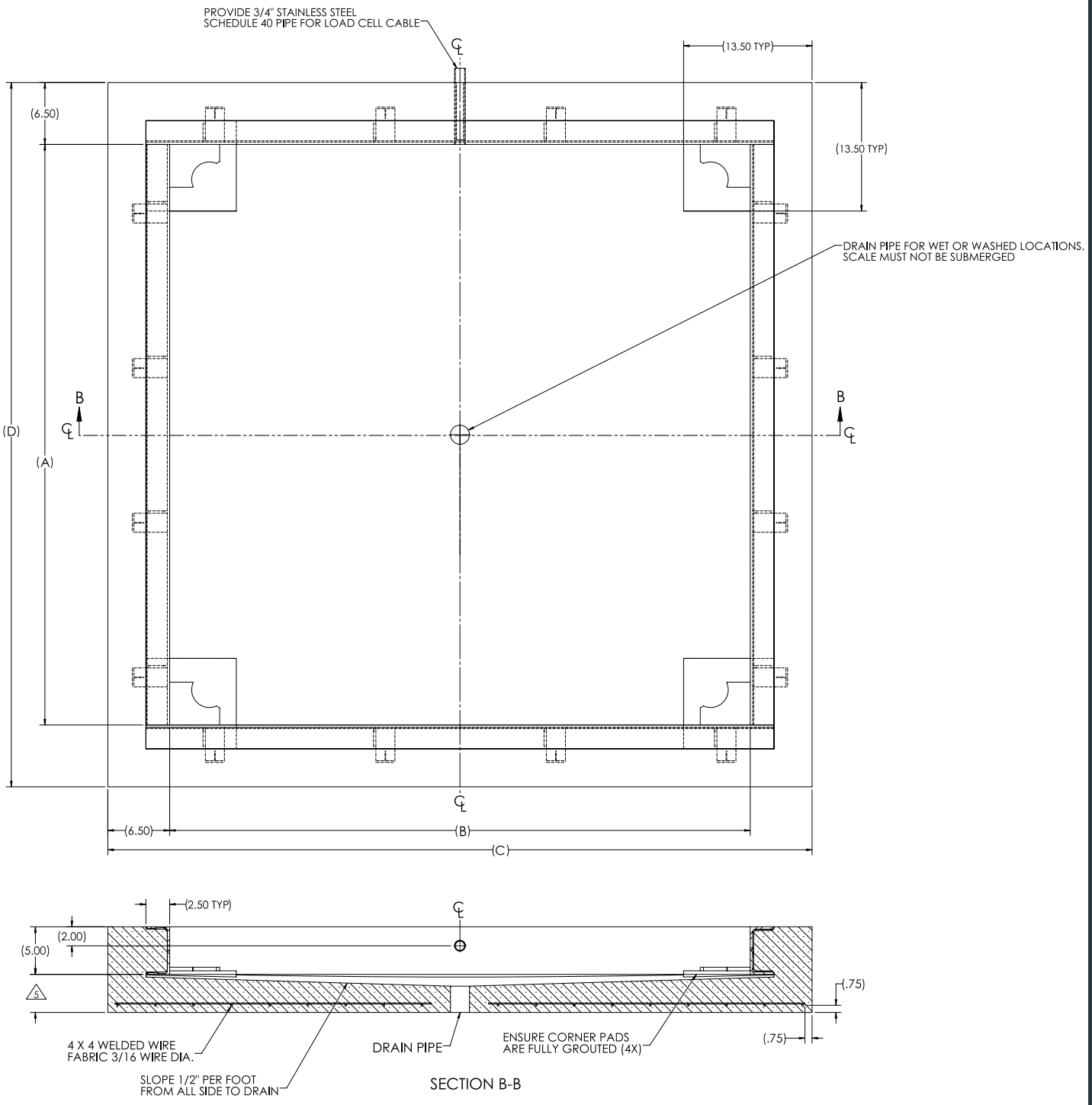
| Drawing Dimensions | | |
|---|---|---|
| Scale Size | 4 ft x 4 ft | 5 ft x 5 ft |
| A | 63.06 | 75.06 |
| B | 49.06 | 61.06 |
| C | 49.00 | 61.06 |
| D | 63.00 | 75.00 |
| E (PN) | 41936 | 41397 |
| F | 15.00 | 16.75 |

*All dimensions are shown in inches. Drawing #S5158–Rev. B*

** Drawings are for standard catalog part numbered scales.*



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1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensue that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells.
5. For required depth of slab, or rebar requirements specific to your application, proper engineering consultation is recommended.

| Drawing Dimensions | | | | |
|---|---|---|---|---|
| **Scale Size** | **A** | **B** | **C** | **D** |
| 4 ft x 4 ft | 49.00 | 49.00 | 62.00 | 62.00 |
| 5 ft x 5 ft | 61.00 | 61.00 | 74.00 | 74.00 |

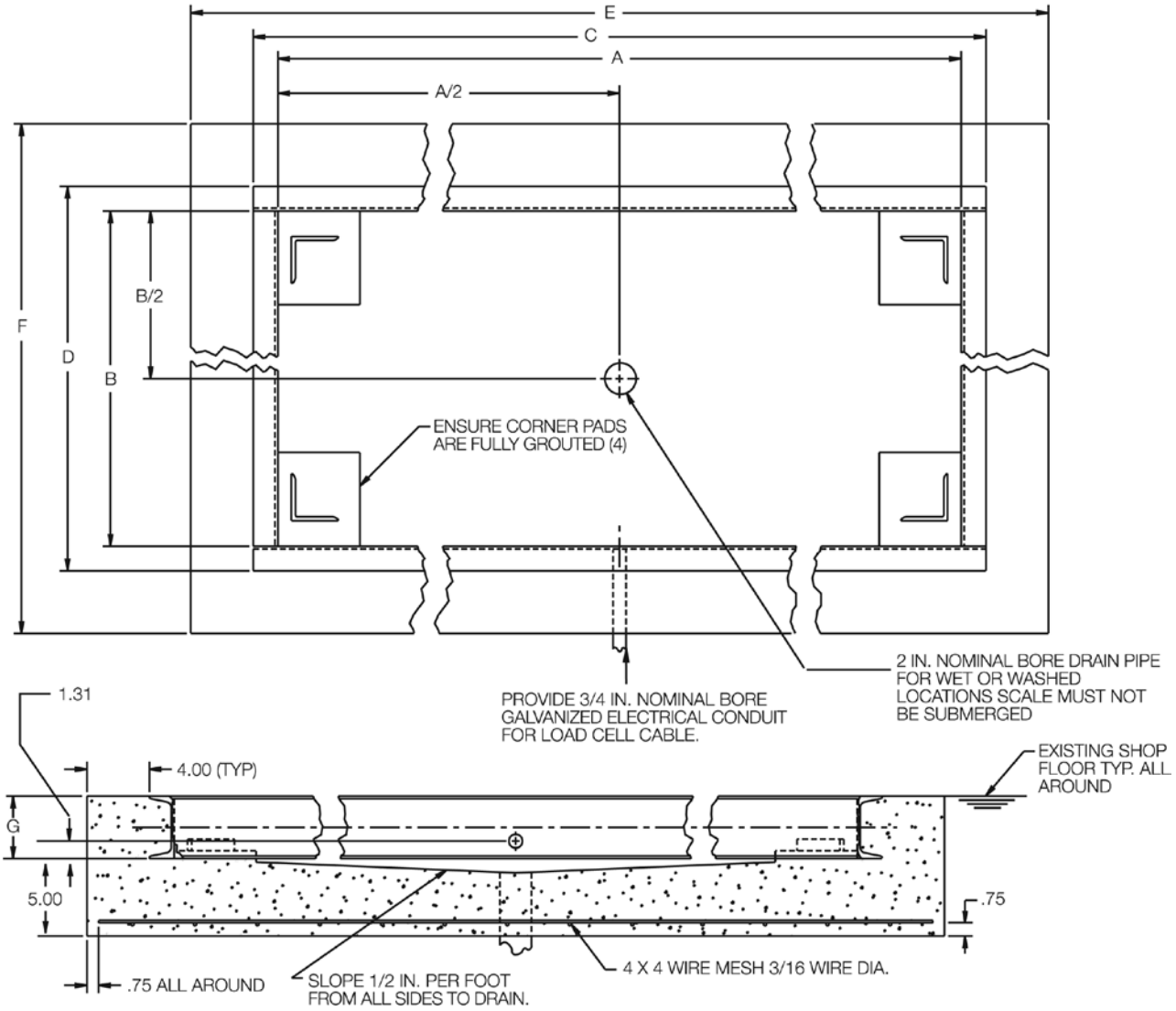
*All dimensions are shown in inches.*



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# RoughDeck® QC

Pit Frame Concrete Details*




| Drawing Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|
| Scale Size | A | B | C | D | E | F | G |
| 2.5 ft x 2.5 ft - 2,000 lb | 30.75 | 31.00 | 34.75 | 35.00 | 42.75 | 43.00 | 4.00 |
| 3 ft x 3 ft - 2,000 lb | 36.75 | 37.00 | 40.75 | 41.00 | 48.75 | 49.00 | 4.00 |
| 4 ft x 4 ft - 2,000 lb | 48.75 | 49.00 | 52.75 | 53.00 | 60.75 | 61.00 | 4.00 |
| 4 ft x 4 ft - 5,000 lb | 48.75 | 49.00 | 52.75 | 53.00 | 60.75 | 61.00 | 4.00 |
| 4 ft x 4 ft - 10,000 lb | 48.75 | 49.00 | 53.75 | 54.00 | 61.75 | 62.00 | 5.00 |
| 4 ft x 5 ft - 2,000 lb | 60.75 | 49.00 | 64.75 | 53.00 | 72.75 | 61.00 | 4.00 |
| 4 ft x 5 ft - 5,000 lb | 60.75 | 49.00 | 65.75 | 54.00 | 73.75 | 62.00 | 5.00 |
| 4 ft x 5 ft - 10,000 lb | 60.75 | 49.00 | 65.75 | 54.00 | 73.75 | 62.00 | 5.00 |
| 4 ft x 6 ft - 2,000 lb | 72.75 | 49.00 | 77.75 | 54.00 | 85.75 | 62.00 | 5.00 |

*All dimensions are shown in inches. Drawing #S6360A–Rev. D*

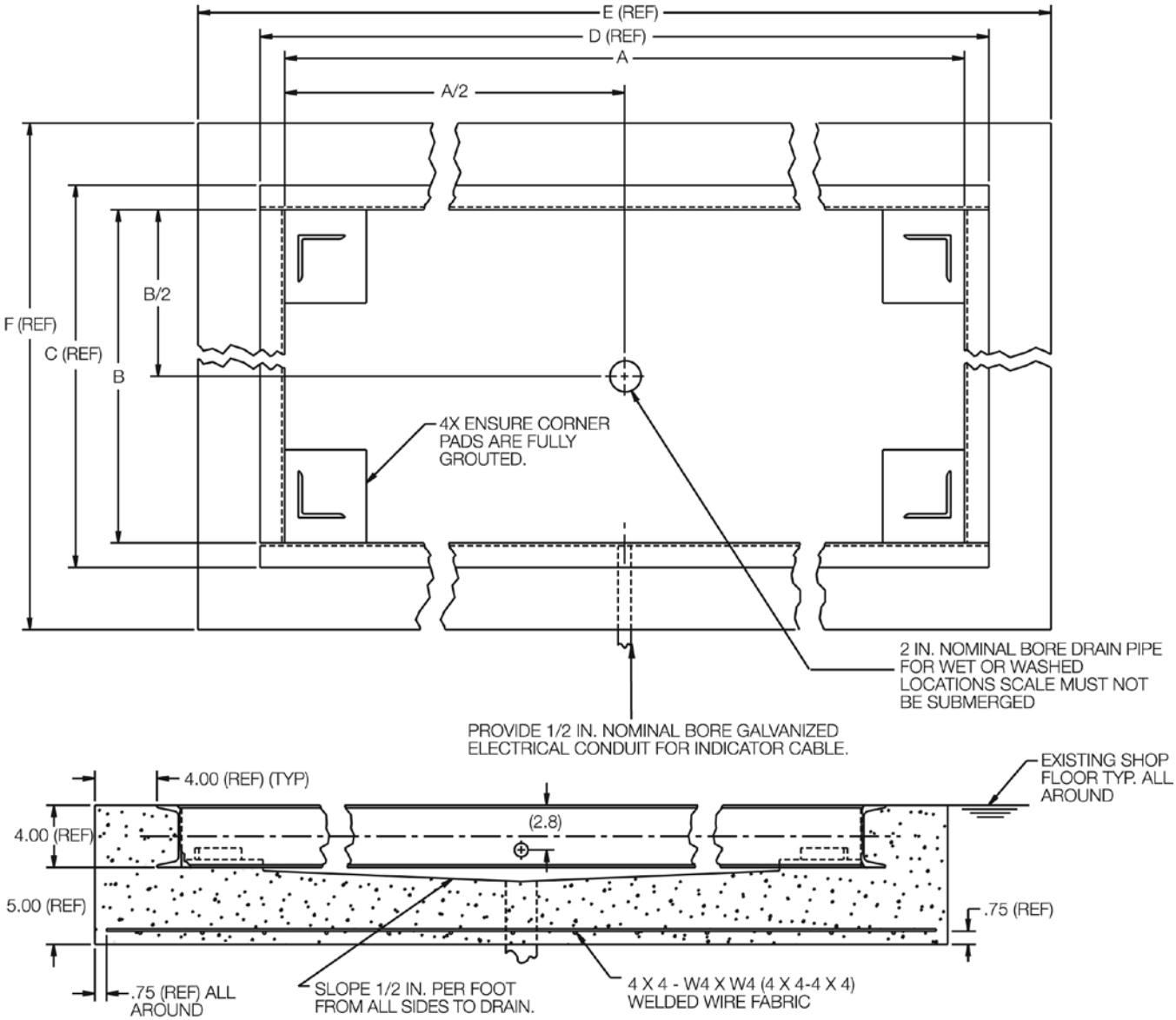
| Drawing Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|
| Scale Size | A | B | C | D | E | F | G |
| 4 ft x 6 ft - 5,000 | 72.75 | 49.00 | 77.75 | 54.00 | 85.75 | 62.00 | 5.00 |
| 4 ft x 6 ft - 10,000 | 72.75 | 49.00 | 78.75 | 55.00 | 86.75 | 63.00 | 6.00 |
| 5 ft x 5 ft - 2,000 | 60.75 | 61.00 | 65.75 | 66.00 | 73.75 | 74.00 | 5.00 |
| 5 ft x 5 ft - 5,000 | 60.75 | 61.00 | 65.75 | 66.00 | 73.75 | 74.00 | 5.00 |
| 5 ft x 5 ft - 10,000 | 60.75 | 61.00 | 65.75 | 66.00 | 73.75 | 74.00 | 5.00 |
| 5 ft x 7 ft - 2,000 | 84.75 | 61.00 | 90.75 | 67.00 | 98.75 | 75.00 | 6.00 |
| 5 ft x 7 ft - 5,000 | 84.75 | 61.00 | 90.75 | 67.00 | 98.75 | 75.00 | 6.00 |
| 5 ft x 7 ft - 10,000 | 84.75 | 61.00 | 90.75 | 67.00 | 98.75 | 75.00 | 6.00 |
| 6 ft x 6 ft - 5,000 | 72.75 | 73.00 | 78.75 | 79.00 | 86.75 | 87.00 | 6.00 |
| 6 ft x 6 ft - 10,000 | 72.75 | 73.00 | 78.75 | 79.00 | 86.75 | 87.00 | 6.00 |

** Drawings are for standard catalog part numbered scales.*

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that the junction box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75 in cover bottom and sides.



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1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications we recommend the use of hermetically sealed load cells and that the junction box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75 in cover bottom and sides.

| Drawing Dimensions | | | | | |
|---|---|---|---|---|---|
| Scale Size | 3 ft x 3 ft | 4 ft x 4 ft | 4 ft x 5 ft | 4 ft x 6 ft | 5 ft x 5 ft |
| A | 36.75 | 48.75 | 60.75 | 72.75 | 60.75 |
| B | 36.75 | 48.75 | 48.75 | 48.75 | 60.75 |
| C | 39.92 | 51.92 | 51.92 | 51.92 | 63.92 |
| D | 39.92 | 51.92 | 63.92 | 75.92 | 63.92 |
| E | 47.92 | 59.92 | 71.92 | 83.92 | 71.92 |
| F | 47.92 | 59.92 | 59.92 | 59.92 | 71.92 |

*All dimensions are shown in inches. Drawing #S77687*
** Drawings are for standard catalog part numbered scales.*




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# Forklift / Pallet Jack Scales

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**VIRTUI®3** ..... **492**
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*Hand Pallet Jack Scale*


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# CLS Series

Forklift Scale



## APPROVALS

The CLS Series forklift scale mounts directly to most Class II and Class III forklifts, saving material handling processes time and money. The CLS can be paired with a device for weight display through a cable or cableless connection. The weight display can either be a Rice Lake Weighing Systems indicator designed for the CLS or virtually through a device that supports the VIRTUi$^3$ software application. For connection to peripheral equipment, there is also optional USB, Bluetooth® and Wi-Fi connection available.

## Specifications

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 06-074 (5,000lb only) per HB-44
at 1,000 division
Measurement Canada AM-5893

## Standard Features

**Scale Carriage**

- 28 in (Class II), 5,000 x 5 lbs, NTEP Certified
- 34 in (Class II), 5,000 x 5 lbs, NTEP Certified
- 38 in (Class III), 8,000 x 5 lbs, non-NTEP
- 1 1/2 in - thick front and back painted steel plates coupled by four flexures
- Top cleats are welded, pinned and bolted
- Welded centering pin
- Two 5,000 lb S-Beam load cells
- iQube$^{2®}$ junction box with inclinometer
- Molded coiled cable, up to 15 ft uncoiled

**Presale Requirements**

- Provide completed forklift questionnaire for quotation. A pre-installed load backrest on the forklift may interfere with flexures or cableless load cell interface option
- Compatible with most Class II and Class III forklift attachments, consult factory

**Required System Information**

- Forklift carriage size (Class II, Class III, Other)
- Forklift carriage width (Is it greater than 36 in?)
- Does the forklift have a load backrest?
- Does the forklift have any existing attachments?
- Power supply for scale instrumentation (12 VDC, Other)
- Maximum mast extension (Under 180 in, Other)
- Any peripheral equipment needed (Example: Printer)

**Installation Recommendations**

- When installing a forklift scale on an electric forklift, static discharge protection must be present on the forklift and install a chasis mount power conditioner to protect forklift electronics.
- When installing a forklift scale, OSHA requires the end user to de-rate the lift capacity of the forklift.



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## CLS Indicator

**CLS-680**

The CLS-680 was designed from the ground-up specifically for forklift applications. With a machined aluminum anodized enclosure, the CLS-680 is ideal for demanding, general-purpose forklift applications. Its compact size is attached with a RAM® mount for flexible positioning and minimal obstruction. Additional features include rounded corners, vibration protection and surge suppression.

- Machined aluminum enclosure with anodized finish
- Six-digit, seven segment LED display
- Battery backed time & date
- On/Off power switch
- 9-36 VDC power supply
- Cabled or cable-less
- RS-232 serial port
- Wi-Fi
- Bluetooth®

## CLS Indicator

**CLS-920i**

The CLS-920i is a version of the 920i specifically designed for the CLS. It incorporates the flexibility, intelligence and programmability of the 920i in a smaller enclosure with a DC power supply for use on forklifts. The standard program offers weight indication, configuration, calibration and diagnostics specific to the CLS. Customize it for your application with an optional user program.

- Painted mild steel enclosure
- Backlit graphical LCD display
- Battery backed time and date
- On/Off power switch
- 10-60 VDC power supply
- Cabled or cable-less
- Two available RS-232 ports for added options
- Optional WiFi
- Optional Bluetooth

## CLS Virtual Solution

**VIRTUi³**

Weight data is displayed on a device using VIRTUi software, creating a virtual indicator. The CLS connects to your device using RS-232, USB or Bluetooth®. Choose between the CLS-M or CLS-IM configuration for static or in-motion use.

- Weight indication device (PC/tablet) is not included.
- Consult factory to verify compatibility with your device.
- Bluetooth connection available
- USB connection available

## Cableless

The cableless option removes the coiled communications/power cable between the scale and the indicator. A rechargeable battery is secured to the scale and it powers the scale and the paired wireless modules provide communication.

- 802.15 wireless interface
- Lithium-ion battery and charger
- On/Off power switch
- Battery life: 24 hours of constant use
- Battery recharge time: 8 hours to fully recharge
- Reinforced battery box welded to top cover

## Wi-Fi

WiFi is a standard feature for the CLS-680 and is available as a factory installed option for the CLS-920i.

- Wireless LAN card 802.11 B/G
- Range: Up to 328 ft indoors
- Operating frequency: ISM 2.4 GHz

## Bluetooth

Bluetooth communication is a standard feature for the CLS-680 and is available as an external option for the CLS-920i. It is also available in a communications/power box for the virtual solution.

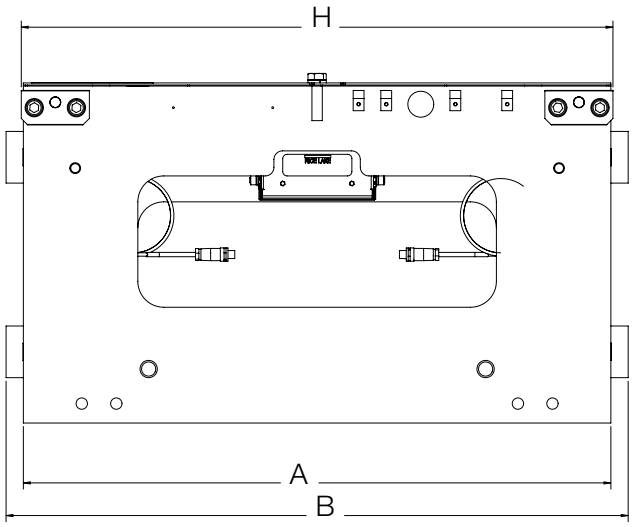




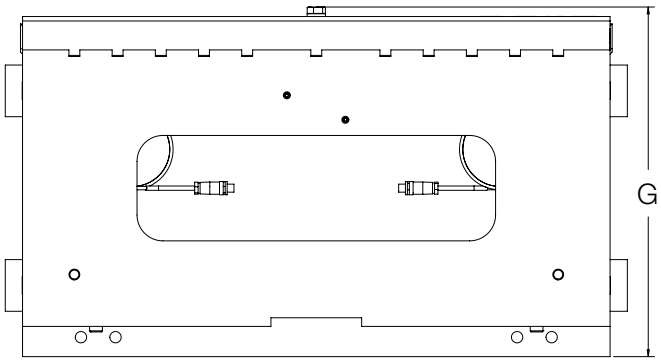
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# CLS Series

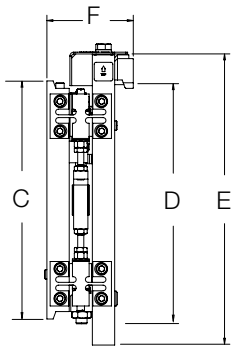
## Forklift Scale




*Front view*




*Rear view*




*Side view*

| CLS Dimensions Class II | | | |
|---|---|---|---|
| **28 in, 5,000 lb** | | | |
| A | 28.00 in (711 mm) | E | 19.50 in (495 mm) |
| B | 30.00 in (762 mm) | F | 4.49 in (114 mm) |
| C | 16.00 in (406 mm) | G | 21.80 in (554 mm) |
| D | 16.29 in (414 mm) | H | 28.24 in (717 mm) |
| **34 in, 5,000 lb** | | | |
| A | 34.00 in (864 mm) | E | 19.50 in (495 mm) |
| B | 36.00 in (914 mm) | F | 4.49 in (114 mm) |
| C | 16.00 in (406 mm) | G | 21.80 in (556 mm) |
| D | 16.29 in (413 mm) | H | 34.24 in (870 mm) |

| CLS Dimensions Class III | | | |
|---|---|---|---|
| **38 in, 8,000 lb** | | | |
| A | 38.00 in (965 mm) | E | 24.50 in (622 mm) |
| B | 40.00 in (622 mm) | F | 6.04 in (153 mm) |
| C | 20.00 in (508 mm) | G | 26.68 in (678 mm) |
| D | 20.15 in (512 mm) | H | 38.00 in (965 mm) |



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## Part Number/Price

| Part # | Size, Capacity | Class II Forklift Compatibility | Est. Weight | Price |
|---|---|---|---|---|
| **CLS Forklift Scale, CLS-680** | | | | |
| **201300** | 5,000 lb x 5 lb NTEP Certified | 34 in W, 16 in H forklift carriage (36 in W with flexures) 9-36 VDC | 530 lb | $7,490.00 |
| **CLS Forklift Scale, CLS-920i** | | | | |
| **162282** | 5,000 lb x 5 lb NTEP Certified | 34 in W, 16 in H forklift carriage (36 in W with flexures) 10-60 VDC | 539 lb | $8,250.00 |
| **CLS Forklift Scale, VIRTUi³ M Series** | | | | |
| **194714**** | 5,000 lb x 5 lb NTEP Certified | 34 in W, 16 in H forklift carriage (36 in W with flexures) | 525 lb | $6,875.00 |
| **CLS Forklift Scale, VIRTUi³ IM Series** | | | | |
| **191748**** | 5,000 lb x 5 lb NTEP Certified | 34 in W, 16 in H forklift carriage (36 in W with flexures) | 525 lb | $7,375.00 |

***Weight indication device (PC/Tablet) is not included; consult factory to verify compatibility with your device*

## Options/Accessories

*The following options and replacement parts below are available to use for the part numbers referenced above.*
*To order replacement parts and options for products purchased prior to this catalog, contact the factory for assistance.*

| Part # | Description | Price |
|---|---|---|
| **Consult** | 28 in wide scale base for Class II carriage instead of 34 in Class II scale base | N/C |
| **Consult** | 38 in wide scale base for Class III carriage instead of 34 in Class II scale base (Non NTEP certified) | $2,700.00 adder |
| **Consult** | Cableless option, order upgrade that also includes two batteries and charger | $1,650.00 adder |
| **Consult** | Bluetooth Option for CLS-680 | N/C |
| **Consult** | Bluetooth Option for CLS-920i | $495.00 |
| **Consult** | Bluetooth Option for CLS-M/IM | $695.00 |
| **Consult** | WiFi option for CLS-680 | N/C |
| **Consult** | WiFi option for CLS-920i | $650.00 |
| **Consult** | DC to DC converter, chassis mount | $140.00 |
| **166161** | Power line filter | $95.00 |
| **167498** | Cable, 2 m extension | $160.00 |
| **188193** | Calibration hook set | $245.00 |



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# NEW
# CLS-680
Forklift Scale Display

**Replacement for CLS-420**




## Standard Features

- Bright six-digit, seven-segment LED display
- Battery backed time and date
- Full numeric keypad
- Two serial ports: RS-232, one reserved for CLS
- Numeric keyed entry allowed for tare
- Formattable tickets
- CLS user modes
- Machined aluminum enclosure with rounded corners
- WiFi standard
- Bluetooth® standard
- Embedded PIFA antenna
- RAM style mount ability
- M16 connector, CLS scale connection
- M12 connector - RS232
- Power cable connector
- RS-232 connection with power
- PreVent breather vent
- Illuminated power switch

## Approvals

## Options

- Cableless interface to CLS with Zigbee module
- RAM style mounts
- Molded M12 serial cables

## Specifications

**Power:**
DC voltages: 9-36 VDC

**Communication Ports:**
Two RS-232 full duplex, one reserved for CLS
Bluetooh SSP
WiFi: Wireless 802.11 b/g/n 2.5 GHz
Zigbee, reserved for CLS cableless option

**Status Annunciators:**
Ten LED annunciators

**Display:**
Six 0.5 in tall, seven-segment digits

**Keys/Buttons:**
Flat membrane panel, tactile feel (18 buttons)

**Temperature Range:**
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

**Dimensions (W X H X D):**
6.5 in x 5.2 in x 3.3 in
(16.5 cm x 13.2 cm x 8.4 cm)

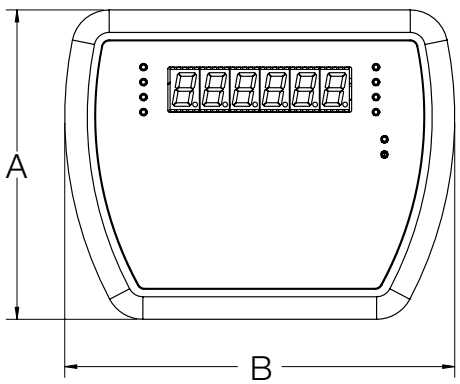
**Estimated Weight:**
3.7 lb (1.7 kg)

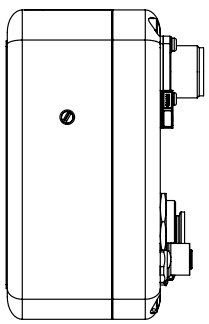
**Material:**
Machined aluminum enclosure, anodized finish

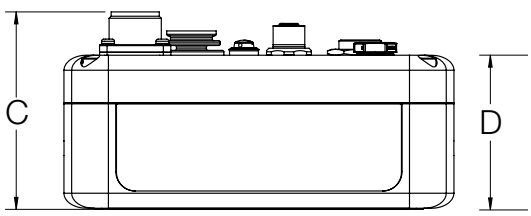
**EMC Immunity:**
EN 50082 Part 2 IEC 61000-4-2,3,4,5,6,8 and 11

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 19-021, Class III/IIIL, 5,000d






| Dimensions | |
|---|---|
| A | 5.25 in (133.4 mm) |
| B | 6.5 in (165.1 mm) |
| C | 3.3 in (83.8 mm) |
| D | 2.5 in (63.5 mm) |



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## Specifications

**Power:**
Line voltage: 10 – 60 VDC, DC Input
Power consumption: 1.5 A max fused at 5.0 .

**Operating Temperature:**
Legal: 14° F to 104° F (-10˚ C to 40˚ C)
Industrial: 14° F to 122° F (-10˚ C to 50˚ C)

**Wireless LAN Option:**
Contains FCC ID: R68WIPORATG
Range: Up to 328 ft indoors
Operating frequency: ISM 2.4 GH

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 06-074, 5,000 lb only, Class III, 1,000d
Measurement Canada AM-5893, Class III

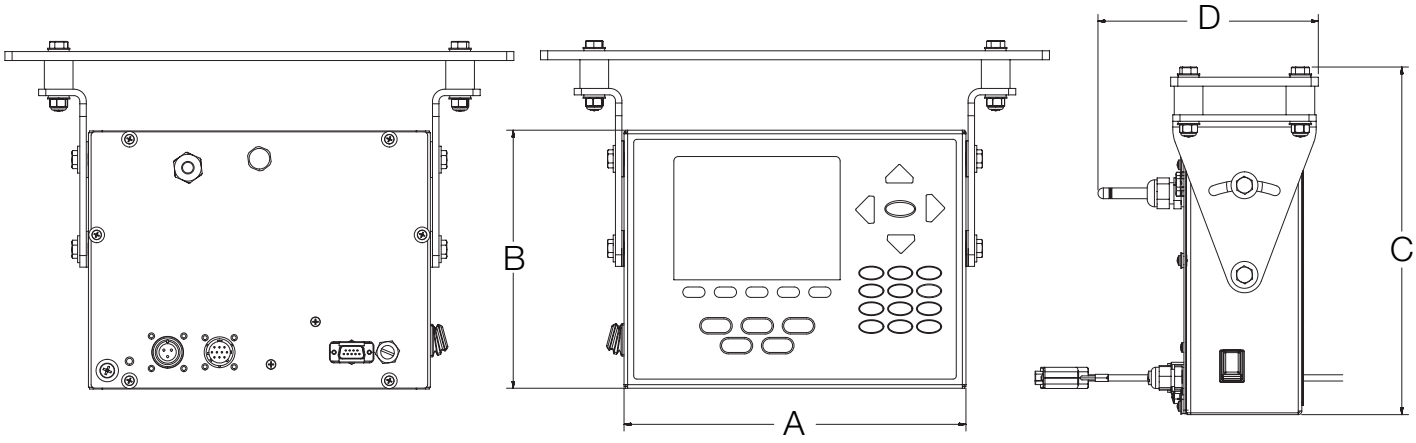



## Standard Features

- (W x H) 4.6 in x 3.4 in, back lit LCD graphical display (320 pixels x 420 pixels)
- Standard program
  - Weight indication
  - Configuration
  - Calibration
  - Diagnostics
- Front panel calibration
- On/Off switch to conserve forklift battery life
- Painted mild steel enclosure
- Two piece top cage indicator mounting assembly with vibration mounts
- Two available RS-232 ports for added options of scanner, Wi-Fi or printer
- 10-60 VDC power supply for use on gas powered or electric forklifts

*Note: For custom user program please contact the factory*

**APPROVALS**




| Dimensions | |
|---|---|
| A | 9.54 in (242.3 mm) |
| B | 7.20 in (182.9 mm) |
| C | 9.71 in (246.6 mm) |
| D | 5.82 in (147.8 mm) |

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# NEW VIRTUi®3

PC-Based HMI for CLS Forklift Scale Series




VIRTUi³ is a Windows®-based application that works with Rice Lake Weighing's CLS Series forklift scale to replicate indicator functionality ideal for those wanting to provide a PC-based solution.

## Standard Features

- Virtual front panel consists of display and two- or three-button keypad
- Printer port configuration, serial or TCP/IP
- Provides CLS configuration screen
- Supports CLS diagnostics
- Weight indication screen
- Weight display
- Zero, print and in-motion clear buttons
- Capacity, resolution, units, motion and center of zero status annunciators
- Unit ID
- Configuration, calibration and diagnostics menus
- VIRTUi³ Mini minimized weight display screen

## APPROVALS

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **188745** | VIRTUi³ Software | $495.00 |

## Specifications

**Minimum System Requirements:**
Windows® 8.1 or greater
Serial port connection to CLS Series Forklift Scale
Additional serial ports are required for connections to printers/remote displays 100 MB space needed
8 GB or greater RAM

**Status Annunciators:**
Units, capacity, resolution, motion, center of zero

**Approvals:**
NTEP CC 04-058



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## Specifications

**Fork Dimensions:**
48.75 in x 26.75 in x 3.125 in
(1240 mm x 680 mm x 80 mm)

**Weight:**
Approx. 295 lb (134 kg)

**Operating Temperature:**
14° to 104° F (-10° to 40° C)

**Capacity:**
Maximum lifting capacity 5,000 lb

**Accuracy:**
± 0.1% of the maximum capacity



## Standard Features

- Heavy-gauge steel with a durable powder coat finish
- Steering wheels and double loading polyurethane rollers
- Four stainless steel IP68 load cells
- Weight indicator in IP65 stainless steel water-resistant enclosure
- Large 1 inch (25 mm) LCD display high contrast digits and waterproof membrane keyboard with 17 functional keys
- Configuration, calibration and diagnostics from keyboard
- Rechargeable battery mounted on the pallet jack
- Battery life is 80 hours of continuous use or one month of non-continuous use
- Zero and tare functions
- Net/Gross and lb/kg conversion
- Accumulation
- Formulation
- +/- Checkweighing
- Percentage weighing
- Counting (Max. resolution of 1,500,000 divisions)
- Peak hold
- Includes a 115VAC 50/60 Hz battery charger



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# RL-HPJ

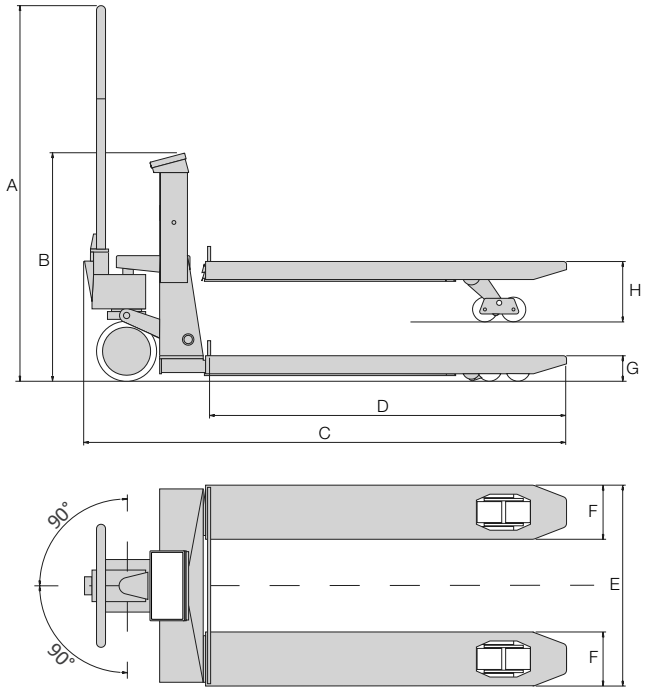
Hand Pallet Jack Scale

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **183592** | Pallet Jack Scale RL-HPJ, 5000 x 1 lb | 295 lb | $2,495.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **185112** | Power supply, 7.2 VDC, 3A SLA battery charger | $125.00 |
| **185677** | Battery, rechargeable | $125.00 |
| **188259** | RL-HPJ printer kit | $425.00 |
| **182053** | Printer paper roll, 57 mm x 30m, 12 mm core 51 mm OD | $2.00 |




| Dimensions | | | |
|---|---|---|---|
| A | 47.25 in (1,200 mm) | E | 26.75 in (680 mm) |
| B | 30 in (762 mm) | F | 7 in (178 mm) |
| C | 64.25 in (1,631 mm) | G | 3.125 in (79 mm) |
| D | 45.25 in (1,149 mm) | H | 7.75 in (197 mm) |



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# Hanging Scales

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*On-site Suspended Scale*





RICE LAKE



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RICE LAKE

# On-site OS-10/OS-25/OS-45

On-site Suspended Scale




## Specifications

**Capacity:**
OS-10: 22 lb x 0.02 lb (22 lb x 0.25 oz)
(10 kg x 0.01 kg)
OS-25: 55 lb x 0.05 lb (55 lb x 0.5 oz)
(25 kg x 0.02 kg)
OS-45: 99 lb x 0.1 lb (99 lb x 1 oz)
(45 kg x .05 kg)

**Power:**
Two AA batteries (included)

**Operating Temperature:**
32° F to 104° F (0° C to 40° C)

**Warranty:**
One-year limited warranty

**Approvals:**
CE Marked

## Standard Features

- Hold function
- Units of measure: kg/lb/lb-oz
- Adjustable automatic shut-off
- Ergonomic handheld design
- Battery operated, two AA batteries included
- Carrying case and top s-hook included
- Captured lower hook, removable upper hook

## Approvals

CE

## Part Number/Price

| Part # | Model | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **130292** | OS-10 | 10 kg x 0.01 kg (22 lb x 0.02 lb)<br>(22 lb x 1/4 oz) | 1.25 lb | $80.00 |
| **130293** | OS-25 | 25 kg x 0.02 kg (55 lb x 0.05 lb)<br>(55 lb x 1/2 oz) | 1.25 lb | $80.00 |
| **130294** | OS-45 | 45 kg x 0.05 kg (99 lb x 0.1 lb)<br>(99 lb x 1 oz) | 1.25 lb | $80.00 |





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# Load Cell Mounting Hardware Safety Guidelines

Install only load cell mounting hardware and assemblies that have been specifically designed for use in tank, hopper or hanging scale applications. Often, the use of an inferior-grade product results in component failure which risks equipment damage and personal injury. These simple suggestions are provided to help minimize your exposure to vessel scale installation hazards.

## 1. Estimating Gross Load

To select the correct load cell or load cell hardware for a given application, it is necessary to know the total weight on the scale—including the net weight of product, the tare weight of the vessel and the weight of the platform, tank or hopper, as appropriate.

## 2. Safe Load

Do not exceed the safe load figures listed in Rice Lake Weighing Systems' catalog for any load cell hardware. Where shock loads are present, it may be necessary to derate these safe load figures depending on the severity of the shock load.

## 3. Load Distribution

In multiple load cell applications, the weight must be evenly distributed between all cells.

## 4. Threaded Connections

Check that all threads of a threaded connection are in engagement. For example, an eye bolt screwed into an s-type load cell should protrude slightly on the opposite side.

## 5. Jam Nuts

All threaded connections must be locked with jam nuts against inadvertent disassembly. If a load is suspended from a single load cell, it is critical that the load cannot rotate as this may loosen the jam nut.

## 6. Wire Rope Assemblies

With wire rope assemblies, do not twist the rope during assembly or disassembly. For example, do not remove a frozen nut from one end of a rope assembly by holding the opposite end.

## 7. Attachment Points of a Load Cell Hardware Assembly

The attachment points of a load cell hardware assembly must be aligned properly and the assembly should be essentially vertical.

## 8. Swaying in a Suspended Vessel Scale

If there is excessive swaying in a suspended vessel scale, apply horizontal checking to reduce the amplitude.

## 9. Safety Backup

If failure of one or more load cell hardware assemblies could cause injury or damage, a safety backup (safety chains, safety rods, etc.) must be used. The assemblies should be inspected routinely for damage, excessive wear or corrosion and replaced if necessary.

## 10. Hopper Scales: Guarding Against Contamination

With hopper scales, guard against contamination of the product being weighed in case of failure of the load cell or hardware assembly. For example, do not locate a wire rope assembly over a hopper scale where broken strands of wire could fall into the weighing vessel,contaminating the product being weighed.

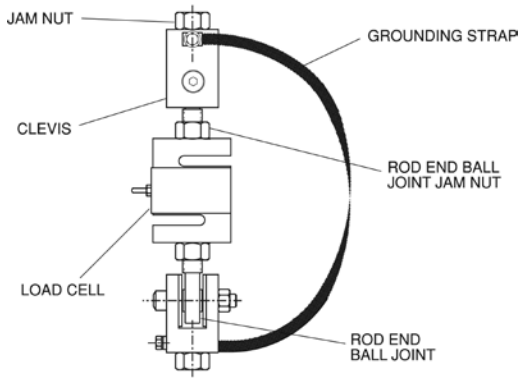
## 11. Selecting Steel Rod or Any Other Weight-Bearing Components

Select steel rod or any other weight-bearing components so that the minimum tensile strength is at least four times the total weight carried by that component. Note that threaded rod is generally made from a low tensile-strength mild steel which should be checked for tensile strength before use in any suspended vessel scale.

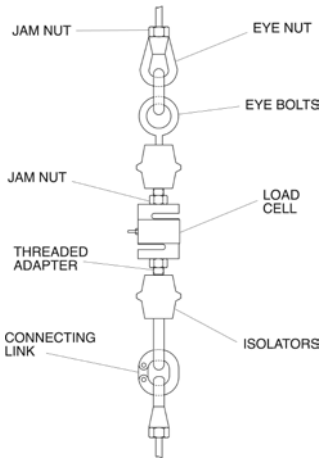


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# Mounting Assembly Component Identification




*ITCM Isolated Tension Cell Mounting Assembly*




*Conventional Tension Mounting Assembly*

Our popular Isolated Tension Cell Mounting (ITCM) assembly and other conventional suspended weighing system assemblies employ a variety of serviceable hardware components. Rice Lake Weighing Systems offers a comprehensive selection of these items for all of your suspended vessel service needs. These drawings are designed to enable you to quickly identify and differentiate components from both of these common designs. All corresponding replacement hardware is located on the following pages.

## Jam Nuts

### Standard Features

- Mild steel/stainless steel
- Coarse or fine thread
- Zinc-plated mild steel or stainless steel

*Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.*



| Thread Size | Part # | Price |
|---|---|---|
| **Mild Steel, Fine Thread** | | |
| 1/4-28 UNF | **14639** | $0.35 |
| 3/8-24 UNF | **14651** | $0.35 |
| 1/2-20 UNF | **14664** | $1.40 |
| 3/4-16 UNF | **14687** | $1.40 |
| 1-12 UNF | **14702** | $5.45 |
| 1-14 UNF | **14703** | $4.45 |
| 1 1/4-12 UNF | **14708** | $3.25 |
| 1 1/2-12 UNF | **14711** | $4.50 |
| **Mild Steel, Coarse Thread** | | |
| 1/4-20 UNC | **14636** | $0.35 |
| 3/8-16 UNC | **14649** | $1.90 |
| 1/2-13 UNC | **14661** | $0.35 |
| 5/8-11 UNC | **14676** | $1.90 |
| 3/4-10 UNC | **14686** | $0.85 |
| 1-8 UNC | **14701** | $1.00 |
| 1-1/4-7 UNC | **14707** | $2.90 |

| Thread Size | Part # | Price |
|---|---|---|
| **Stainless Steel, Fine Thread** | | |
| 1/4-28 UNF | **14640** | $1.10 |
| 1/2-20 UNF | **14665** | $1.65 |
| 3/4-16 UNF | **14688** | $2.10 |
| **Stainless Steel, Coarse Thread** | | |
| 3/8-16 UNC | **14653** | $1.85 |
| 1/2-13 UNC | **14662** | $1.60 |
| 5/8-11 UNC | **14680** | $1.85 |
| 3/4-10 UNC | **14690** | $1.90 |

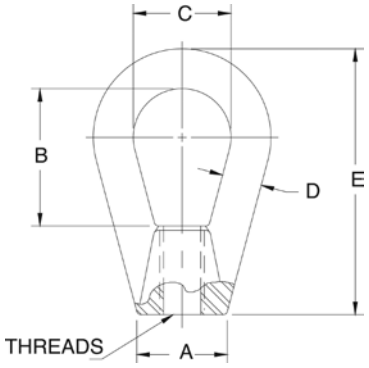




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# Eye Nuts






## Standard Features

- Drop-forged steel, tapped NC right-hand threads

## Part Number/Price

| Part # | A | | B | | C | | D | | E | | Thread Size | Safe Load* | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **17772** | 0.50 in | 12.7 mm | 1.06 in | 26.9 mm | 0.75 in | 19.1 mm | 0.25 in | 6.4 mm | 1.68 in | 42.7 mm | 1/4-20 UNC | 500 lb (226.8 kg) | $40.00 |
| **17773** | 0.75 in | 19.1 mm | 1.18 in | 30.0 mm | 0.87 in | 22.1 mm | 0.31 in | 7.9 mm | 2.25 in | 57.2 mm | 3/8-16 UNC | 1,800 lb (816.5 kg) | $25.00 |
| **17774** | 1.00 in | 25.4 mm | 1.56 in | 39.6 mm | 1.12 in | 28.5 mm | 0.43 in | 10.9 mm | 3.00 in | 76.2 mm | 1/2-13 UNC | 3,600 lb(1,632.9 kg) | $40.00 |
| **17775** | 1.25 in | 31.8 mm | 1.93 in | 49.0 mm | 1.37 in | 34.8 mm | 0.56 in | 14.2 mm | 3.75 in | 95.3 mm | 5/8-11 UNC | 5,800 lb (2,630.8 kg) | $45.00 |

**Do not exceed the safe load*

# Coupling Nuts



## Standard Features

- Heavy hex

## Part Number/Price

| Part # | Thread Size | Length | | Flat | | Safe Load* | Price |
|---|---|---|---|---|---|---|---|
| **14638** | 1/4-20 UNC | 1.75 in | 44.5 mm | 0.44 in | 11.2 mm | 500 lb (226.8 kg) | $6.25 |
| **14650** | 3/8-16 UNC | 1.75 in | 44.5 mm | 0.62 in | 15.8 mm | 1,500 lb (680.4 kg) | $6.75 |
| **14663** | 1/2-13 UNC | 1.75 in | 44.5 mm | 0.87 in | 22.1 mm | 3,000 lb (1,360.8 kg) | $6.75 |
| **14681** | 5/8-11 UNC | 2.12 in | 53.8 mm | 1.06 in | 26.9 mm | 7,500 lb (3,402.0 kg) | $9.50 |
| **14691** | 3/4-10 UNC | 2.25 in | 57.1 mm | 1.25 in | 31.8 mm | 10,000 lb (4,535.9 kg) | $10.50 |

**Do not exceed the safe load*

*Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.*

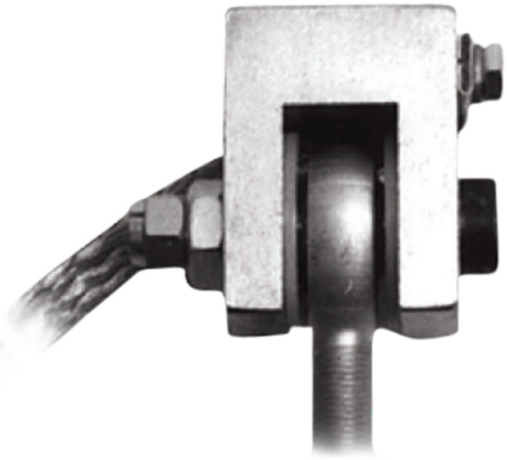


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# Clevis Mount Assemblies

## Standard Features

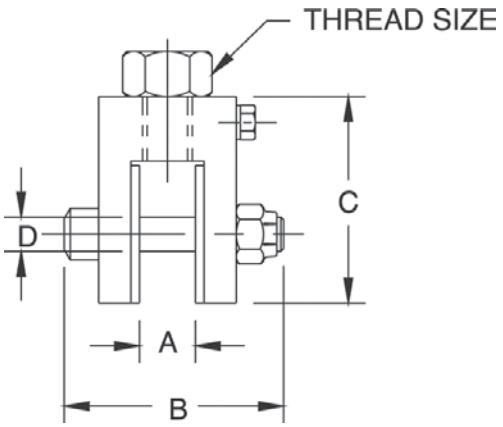
- Mild steel
- Assembly used in the ITCM
- Adapts rod to rod-end ball joint
- Provides electrical isolation for load cell protection
- Elimination of unwanted side loads
- Optional stainless steel provides enhanced corrosion resistance



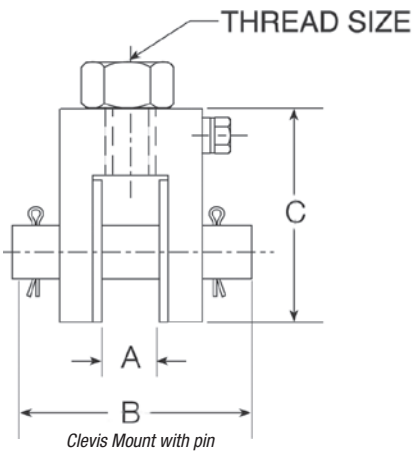
## Part Number/Price

| Part # | A | | B | | C | | D | | Thread Size | Safe Load* | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mild Steel with Bolt** | | | | | | | | | | | |
| **17792** | 0.52 in | 13.2 mm | 2.38 in | 60.5 mm | 1.94 in | 49.3 mm | 0.38 in | 9.5 mm | 3/8-16 UNC | 300 lb (136.1 kg) | $75.00 |
| **17793** | 0.52 in | 13.2 mm | 2.38 in | 60.5 mm | 1.94 in | 49.3 mm | 0.38 in | 9.5 mm | 1/2-13 UNC | 300 lb (136.1 kg | $75.00 |
| **17783** | 0.39 in | 9.9 mm | 1.81 in | 46.0 mm | 1.69 in | 42.9 mm | 0.25 in | 6.4 mm | 1/2-13 UNC | 500 lb (226.8 kg) | $85.00 |
| **17784** | 0.65 in | 16.5 mm | 2.68 in | 68.1 mm | 2.31 in | 58.7 mm | 0.50 in | 12.7 mm | 3/4-10 UNC | 4,000 lb (1,814.4 kg) | $85.00 |
| **17785** | 0.78 in | 19.8 mm | 3.37 in | 85.6 mm | 3.00 in | 76.2 mm | 0.62 in | 15.8 mm | 1-8 UNC | 10,000 lb (4,535.9 kg) | $85.00 |
| **17786** | 0.39 in | 9.9 mm | 1.81 in | 46.0 mm | 1.69 in | 42.9 mm | 0.25 in | 6.4 mm | 3/8-16 UNC | 500 lb (226.8 kg) | $85.00 |
| **17787** | 0.65 in | 16.5 mm | 2.68 in | 68.1 mm | 2.31 in | 58.7 mm | 0.50 in | 12.7 mm | 1/2-13 UNC | 2,000 lb (907.2 kg) | $85.00 |
| **17788** | 0.65 in | 16.5 mm | 2.68 in | 68.1 mm | 2.31 in | 58.7 mm | 0.50 in | 12.7 mm | 5/8-11 UNC | 2,500 lb (1,134.0 kg) | $85.00 |
| **17789** | 0.78 in | 19.8 mm | 3.37 in | 85.6 mm | 3.00 in | 76.2 mm | 0.62 in | 15.8 mm | 3/4-10 UNC | 5,000 lb (2,268.0 kg) | $85.00 |
| **Mild Steel with Pin** | | | | | | | | | | | |
| **17790** | 1.39 in | 35.3 mm | 4.12 in | 104.6 mm | 4.50 in | 114.3 mm | 1.00 in | 25.4 mm | 1 1/4-7 UNC | 15,000 lb (6,803.9 kg) | $315.00 |
| **17791** | 1.22 in | 31.0 mm | 4.12 in | 104.6 mm | 5.00 in | 127.0 mm | 1.25 in | 31.8 mm | 1 1/2-6 UNC | 20,000 lb (9,071.9 kg) | $315.00 |
| **Stainless Steel with Pin** | | | | | | | | | | | |
| **33644** | 0.52 in | 13.2 mm | 2.38 in | 60.5 mm | 1.94 in | 49.3 mm | 0.38 in | 9.5 mm | 1/2-13 UNC | 300 lb (136.1 kg) | $165.00 |
| **33643** | 0.39 in | 9.9 mm | 1.81 in | 46.0 mm | 1.69 in | 42.9 mm | 0.25 in | 6.4 mm | 1/2-13 UNC | 500 lb (226.8 kg) | $165.00 |
| **33641** | 0.39 in | 9.9 mm | 1.81 in | 46.0 mm | 1.69 in | 42.9 mm | 0.25 in | 6.4 mm | 3/8-16 UNC | 500 lb (226.8 kg) | $165.00 |
| **33658** | 0.52 in | 13.2 mm | 2.38 in | 60.5 mm | 1.94 in | 49.3 mm | 0.38 in | 9.5 mm | 3/8-16 UNC | 500 lb (226.8 kg) | $165.00 |
| **33642** | 0.65 in | 16.5 mm | 2.68 in | 68.1 mm | 2.31 in | 58.7 mm | 0.50 in | 12.7 mm | 3/4-10 UNC | 4,000 lb (1,814.4 kg) | $215.00 |
| **33640** | 0.65 in | 16.5 mm | 2.68 in | 68.1 mm | 2.31 in | 58.7 mm | 0.50 in | 12.7 mm | 1/2-13 UNC | 2,000 lb (907.2 kg) | $215.00 |
| **33639** | 0.65 in | 16.5 mm | 2.68 in | 68.1 mm | 2.31 in | 58.7 mm | 0.50 in | 12.7 mm | 5/8-11 UNC | 2,500 lb (1,134.0 kg) | $215.00 |
| **33638** | 0.78 in | 19.8 mm | 3.37 in | 85.6 mm | 3.00 in | 76.2 mm | 0.62 in | 15.8 mm | 3/4-10 UNC | 5,000 lb (2,268.0 kg) | $215.00 |

**Do not exceed the safe load*




*Clevis Mount with bolt*



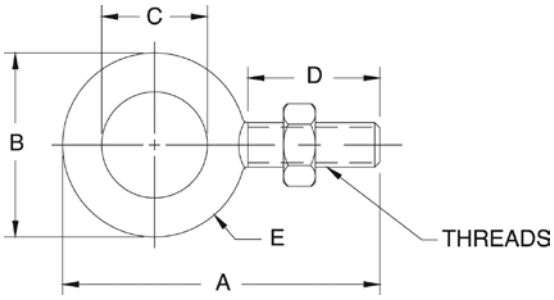

*Clevis Mount with pin*



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# Load Cell Eye Bolts






## Standard Features

- Mild steel
- One jam nut included with each eye bolt

## Part Number/Price

| Part # | A | | B | | C | | D | | E | | Thread Size | Safe Load* | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mild Steel** | | | | | | | | | | | | | |
| **17705** | 2.25 in | 57.2 mm | 1.25 in | 31.8 mm | 0.75 in | 19.1 mm | 1.00 in | 25.4 mm | 0.25 in | 6.4 mm | 1/4-28 UNF | 500 lb (226.8 kg) | $22.00 |
| **17707** | 2.91 in | 73.9 mm | 1.66 in | 42.2 mm | 1.00 in | 25.4 mm | 1.25 in | 31.8 mm | 0.33 in | 8.4 mm | 3/8-24 UNF | 1,300 lb (589.7 kg) | $22.00 |
| **17709** | 3.56 in | 90.4 mm | 2.06 in | 52.3 mm | 1.19 in | 30.2 mm | 1.50 in | 38.1 mm | 0.44 in | 11.2 mm | 1/2-20 UNF | 2,400 lb (1,088.6 kg) | $25.00 |
| **17711** | 4.25 in | 108.0 mm | 2.50 in | 63.5 mm | 1.37 in | 34.8 mm | 1.75 in | 44.5 mm | 0.56 in | 14.2 mm | 5/8-18 UNF | 4,000 lb (1,814.4 kg) | $30.00 |
| **17713** | 4.81 in | 122.2 mm | 2.81 in | 71.4 mm | 1.50 in | 38.1 mm | 2.00 in | 50.8 mm | 0.66 in | 16.8 mm | 3/4-16 UNF | 5,000 lb (2,267.9 kg) | $65.00 |
| **17715** | 6.06 in | 153.9 mm | 3.56 in | 90.4 mm | 1.81 in | 46.0 mm | 2.50 in | 63.5 mm | 0.87 in | 22.1 mm | 1-12 UNF | 9,000 lb (4,082.3 kg) | $100.00 |
| **17716** | 6.06 in | 153.9 mm | 3.56 in | 90.4 mm | 1.81 in | 46.0 mm | 2.50 in | 63.5 mm | 0.87 in | 22.1 mm | 1-14 UNS | 9,000 lb (4,082.3 kg) | $100.00 |
| **17704** | 2.25 in | 57.2 mm | 1.25 in | 31.8 mm | 0.75 in | 19.1 mm | 1.00 in | 25.4 mm | 0.25 in | 6.4 mm | 1/4-20 UNC | 500 lb (226.8 kg) | $20.00 |
| **17706** | 2.91 in | 73.9 mm | 1.66 in | 42.2 mm | 1.00 in | 25.4 mm | 1.25 in | 31.8 mm | 0.33 in | 8.4 mm | 3/8-16 UNC | 1,300 lb (589.7 kg) | $22.00 |
| **17708** | 3.56 in | 90.4 mm | 2.06 in | 52.3 mm | 1.19 in | 30.2 mm | 1.50 in | 38.1 mm | 0.44 in | 11.2 mm | 1/2-13 UNC | 2,400 lb (1,088.6 kg) | $32.00 |
| **17710** | 4.25 in | 108.0 mm | 2.50 in | 63.5 mm | 1.37 in | 34.8 mm | 1.75 in | 44.5 mm | 0.56 in | 14.2 mm | 5/8-11 UNC | 4,000 lb (1,814.4 kg) | $53.00 |
| **17712** | 4.81 in | 122.2 mm | 2.81 in | 71.4 mm | 1.50 in | 38.1 mm | 2.00 in | 50.8 mm | 0.66 in | 16.8 mm | 3/4-10 UNC | 5,000 lb (2,267.9 kg) | $53.00 |
| **17714** | 6.06 in | 153.9 mm | 3.56 in | 90.4 mm | 1.81 in | 46.0 mm | 2.50 in | 63.5 mm | 0.87 in | 22.1 mm | 1-8 UNC | 9,000 lb (4,082.3 kg) | $54.00 |
| **17717** | 7.44 in | 189.0 mm | 4.44 in | 112.8 mm | 2.19 in | 55.6 mm | 3.00 in | 76.2 mm | 1.12 in | 28.4 mm | 1 1/4-7 UNC | 15,000 lb (6,803.9 kg) | $150.00 |

**Do not exceed the safe load*

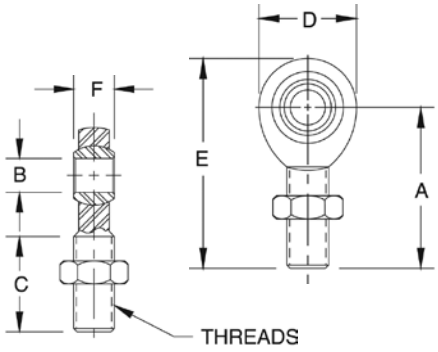
*Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.*



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## Standard Features

- Used in the ITCM assembly
- One jam nut included with each rod end ball joint
- Standard or PTFE-lined
- Optional stainless steel provides enhanced corrosion resistance for hostile environments






*PTFE Lined Standard*

## Part Number/Price

| Part # | Safe Load* | Breaking Strength | PTFE Lined | Price |
|---|---|---|---|---|
| **Mild Steel** | | | | |
| **17746** | 975 lb (453.6 kg) | 3,915 lb (1,913.3 kg) | YES | $30.00 |
| **17734** | 1,200 lb (544.3 kg) | 4,916 lb (2,229.9 kg) | NO | $21.00 |
| **17736** | 4,000 lb (1,814.4 kg) | 16,238 lb(7,365.5 kg) | NO | $55.00 |
| **17738** | 7,000 lb (3,175.2 kg) | 28,081 lb (12,737.4 kg) | NO | $95.00 |
| **17735** | 2,000 lb (907.2 kg) | 8,075 lb (3,662.8 kg) | NO | $25.00 |
| **17737** | 3,250 lb (1,474.2 kg) | 13,831 lb (6,273.7 kg) | NO | $38.00 |
| **17739** | 500 lb (226.8 kg) | 2,158 lb (978.9 kg) | YES | $30.00 |
| **17740** | 4,000 lb (1,814.4 kg) | 16,238 lb (7,365.5 kg) | YES | $50.00 |
| **17741** | 10,000 lb (4,535.9 kg) | 40,572 lb (18,403.2 kg) | YES | $75.00 |
| **17742** | 10,500 lb (4,762.7 kg) | 43,541 lb (19,749.9 kg) | NO | $140.00 |
| **26007** | 15,000 lb (6,803.9 kg) | 76,200 lb (34,563.8 kg) | YES | $285.00 |
| **17747** | 19,000 lb (8,618.3 kg) | 76,200 lb (34,563.8 kg) | YES | $325.00 |
| **17743** | 20,000 lb (9,071.9 kg) | 79,728 lb (36,164.1 kg) | NO | $245.00 |
| **17744** | 24,000 lb (10,886.2 kg) | 96,510 lb (43,776.3 kg) | NO | $345.00 |
| **Stainless Steel** | | | | |
| **33506** | 1,500 lb (680.4 kg) | 7,362 lb (3,339.4 kg) | YES | $130.00 |
| **33505** | 500 lb (226.8 kg) | 2,158 lb (978.9 kg) | YES | $130.00 |
| **33507** | 3,000 lb (1,360.8 kg) | 16,238 lb (7,365.5 kg) | YES | $140.00 |
| **33508** | 7,000 lb (3,175.2 kg) | 40,572 lb (18,403.2 kg) | YES | $325.00 |

**Do not exceed the safe load*

## Dimensions

| Part # | A | | B | | C | | D | | E | | F | | Thread Size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mild Steel** | | | | | | | | | | | | | |
| **17746** | 1.94 in | 49.3 mm | 0.37 in | 9.4 mm | 1.25 in | 31.8 mm | 1.00 in | 25.4 mm | 2.43 in | 61.7 mm | 0.50 in | 12.7 mm | 3/8-24 UNF |
| **17734** | 1.94 in | 49.3 mm | 0.37 in | 9.4 mm | 1.25 in | 31.8 mm | 1.00 in | 25.4 mm | 2.43 in | 61.7 mm | 0.50 in | 12.7 mm | 3/8-24 UNF |
| **17736** | 2.44 in | 62.0 mm | 0.50 in | 12.7 mm | 1.50 in | 38.1 mm | 1.31 in | 33.3 mm | 3.09 in | 78.5 mm | 0.62 in | 15.8 mm | 1/2-20 UNF |
| **17738** | 2.87 in | 72.9 mm | 0.75 in | 19.1 mm | 1.75 in | 44.5 mm | 1.75 in | 44.5 mm | 3.75 in | 95.3 mm | 0.87 in | 22.1 mm | 3/4-16 UNF |
| **17735** | 2.44 in | 62.0 mm | 0.50 in | 12.7 mm | 1.50 in | 38.1 mm | 1.31 in | 33.3 mm | 3.09 in | 78.5 mm | 0.62 in | 15.8 mm | 1/2-20 UNF |
| **17737** | 2.87 in | 72.9 mm | 0.75 in | 19.1 mm | 1.75 in | 44.5 mm | 1.75 in | 44.5 mm | 3.75 in | 95.3 mm | 0.87 in | 22.1 mm | 3/4-16 UNF |
| **17739** | 1.56 in | 39.6 mm | 0.25 in | 6.4 mm | 1.00 in | 25.4 mm | 0.75 in | 19.1 mm | 1.93 in | 49.0 mm | 0.37 in | 9.4 mm | 1/4-28 UNF |
| **17740** | 2.44 in | 62.0 mm | 0.50 in | 12.7 mm | 1.50 in | 38.1 mm | 1.31 in | 33.3 mm | 3.09 in | 78.5 mm | 0.62 in | 15.8 mm | 1/2-20 UNF |
| **17741** | 2.87 in | 72.9 mm | 0.62 in | 15.8 mm | 1.75 in | 44.5 mm | 1.75 in | 44.5 mm | 3.75 in | 95.3 mm | 0.75 in | 19.1 mm | 3/4-16 UNF |
| **17742** | 4.12 in | 104.7 mm | 1.00 in | 25.4 mm | 2.12 in | 53.9 mm | 2.75 in | 70.0 mm | 5.50 in | 139.7 mm | 1.37 in | 34.8 mm | 1-12 UNF |
| **26007** | 4.12 in | 104.7 mm | 1.00 in | 25.4 mm | 2.12 in | 53.9 mm | 2.75 in | 70.0 mm | 5.50 in | 139.7 mm | 1.37 in | 34.8 mm | 1-14 UNS |
| **17747** | 4.12 in | 104.7 mm | 1.00 in | 25.4 mm | 2.12 in | 53.9 mm | 2.75 in | 70.0 mm | 5.50 in | 139.7 mm | 1.37 in | 34.8 mm | 1-12 UNF |
| **17743** | 4.12 in | 104.7 mm | 1.25 in | 31.8 mm | 2.12 in | 53.9 mm | 2.75 in | 70.0 mm | 5.50 in | 139.7 mm | 1.09 in | 27.7 mm | 1 1/4-12 UNF |
| **17744** | 5.37 in | 136.4 mm | 1.50 in | 38.1 mm | 3.00 in | 76.2 mm | 3.50 in | 88.9 mm | 7.12 in | 180.8 mm | 1.31 in | 33.3 mm | 1 1/2-12 UNF |
| **Stainless Steel** | | | | | | | | | | | | | |
| **33506** | 1.94 in | 49.3 mm | 0.37 in | 9.4 mm | 1.25 in | 31.8 mm | 1.00 in | 25.4 mm | 2.43 in | 61.7 mm | 0.50 in | 12.7 mm | 3/8-24 UNF |
| **33505** | 1.56 in | 39.6 mm | 0.25 in | 6.4 mm | 1.00 in | 25.4 mm | 0.75 in | 19.1 mm | 1.93 in | 49.0 mm | 0.37 in | 9.4 mm | 1/4-28 UNF |
| **33507** | 2.44 in | 62.0 mm | 0.50 in | 12.7 mm | 1.50 in | 38.1 mm | 1.31 in | 33.3 mm | 3.09 in | 78.5 mm | 0.62 in | 15.8 mm | 1/2-20 UNF |
| **33508** | 2.87 in | 72.9 mm | 0.62 in | 15.8 mm | 1.75 in | 44.5 mm | 1.75 in | 44.5 mm | 3.75 in | 95.3 mm | 0.75 in | 19.1 mm | 3/4-16 UNF |



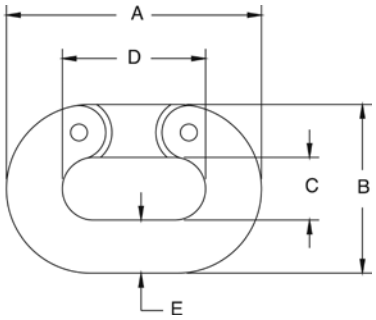




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# Connecting Links






## Standard Features

- Drop-forged carbon steel, heat-treated, hot-dipped galvanized finish

## Part Number/Price

| Part# | A | | B | | C | | D | | E | | Safe Load* | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **17794** | 1.50 in | 38.1 mm | 1.00 in | 25.4 mm | 0.43 in | 10.9 mm | 0.87 in | 22.1 mm | 0.25 in | 6.4 mm | 1,325 lb (601.6 kg) | $37.00 |
| **17795** | 2.06 in | 52.3 mm | 1.37 in | 34.8 mm | 0.56 in | 14.2 mm | 1.12 in | 28.5 mm | 0.37 in | 9.4 mm | 2,750 lb (1,247.4 kg) | $39.00 |
| **17796** | 2.65 in | 67.3 mm | 1.71 in | 43.4 mm | 0.65 in | 16.5 mm | 1.46 in | 37.1 mm | 0.50 in | 12.7 mm | 4,750 lb (2,154.6 kg) | $39.00 |
| **17797** | 3.31 in | 84.1 mm | 2.09 in | 53.1 mm | 0.78 in | 19.8 mm | 1.81 in | 46.0 mm | 0.62 in | 15.8 mm | 7,250 lb (3,288.6 kg) | $49.00 |
| **17798** | 3.87 in | 98.3 mm | 2.50 in | 63.5 mm | 0.93 in | 23.6 mm | 2.12 in | 53.9 mm | 0.75 in | 19.1 mm | 10,250 lb (4,649.3 kg) | $67.00 |
| **17799** | 5.00 in | 127.0 mm | 3.31 in | 84.1 mm | 1.25 in | 31.8 mm | 2.75 in | 69.9 mm | 1.00 in | 25.4 mm | 15,500 lb (7,030.7 kg) | $115.00 |

**Do not exceed the safe load*

# Load Cell Isolators



## Standard Features

- Power surges such as those caused by welding or electrical shorts frequently damage load cells and indicators. To prevent such damage, these isolators electrically separate the mechanical assembly from its tension-type load cell.

## Part Number/Price

| Part# | Height Thread Size | Max. Dia | | | | Safe Load* | Price |
|---|---|---|---|---|---|---|---|
| **17722** | 3/8-16 UNC | 2.50 in | 63.5 mm | 2.50 in | 63.5 mm | 600 lb (272.2 kg) | $42.00 |
| **17724** | 1/2-13 UNC | 2.50 in | 63.5 mm | 2.50 in | 63.5 mm | 600 lb (272.2 kg) | $47.00 |
| **17726** | 1/2-20 UNF | 2.50 in | 63.5 mm | 2.50 in | 63.5 mm | 600 lb (272.2 kg) | $83.00 |
| **17725** | 1/2-13 UNC | 2.43 in | 61.7 mm | 2.00 in | 50.8 mm | 3,000 lb (1,360.8 kg) | $115.00 |
| **17723** | 3/8-24 UNF | 2.50 in | 63.5 mm | 2.50 in | 63.5 mm | 600 lb (272.2 kg) | $87.00 |
| **17728** | 1/2-13 UNC x 1/2-20 UNF | 2.50 in | 63.5 mm | 2.50 in | 63.5 mm | 600 lb (272.2 kg) | $63.00 |
| **17732** | 1/4-20 UNC | 1.00 in | 25.4 mm | 1.12 in | 28.4 mm | 250 lb (113.4 kg) | $47.00 |

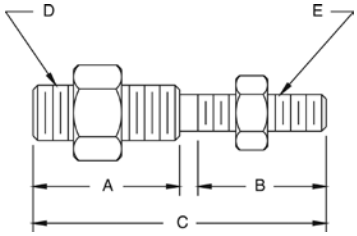
**Do not exceed the safe load*



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## Standard Features

- For coupling isolators with load cells and steel yard rods
- Supplied with jam nuts
- Now in stronger, more durable stainless steel






## Part Number/Price

| Part # | A | | B | | C | | D | E | Safe Load* | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **33561** | — | — | — | — | 2.00 in | 50.8 mm | 1/4-28 UNF | 1/4-28 UNF | 300 lb (136.1 kg) | $26.00 |
| **33562** | 0.94 in | 23.9 mm | 0.94 in | 23.9 mm | 2.00 in | 50.8 mm | 1/4-28 UNF | 1/4-20 UNC | 300 lb (136.1 kg) | $27.00 |
| **33563** | 0.92 in | 23.3 mm | 1.02 in | 25.9 mm | 2.06 in | 52.3 mm | 1/4-28 UNF | 3/8-24 UNF | 300 lb (136.1 kg) | $26.00 |
| **33564** | 0.94 in | 23.9 mm | 0.94 in | 23.9 mm | 2.00 in | 50.8 mm | 1/4-28 UNF | 3/8-16 UNC | 300 lb (136.1 kg) | $26.00 |
| **33565** | 1.06 in | 26.9 mm | 1.06 in | 26.9 mm | 2.25 in | 57.2 mm | 1/4-20 UNC | 3/8-16 UNC | 300 lb (136.1 kg) | $28.00 |
| **33567** | 1.06 in | 26.9 mm | 1.06 in | 26.9 mm | 2.25 in | 57.2 mm | 1/4-28 UNF | 1/2-13 UNC | 300 lb (136.1 kg) | $28.00 |
| **33568** | — | — | — | — | 2.00 in | 50.8 mm | 3/8-24 UNF | 3/8-24 UNF | 500 lb (226.8 kg) | $37.00 |
| **33569** | 0.91 in | 23.1 mm | 0.91 in | 23.1 mm | 2.00 in | 50.8 mm | 3/8-16 UNC | 3/8-24 UNF | 500 lb (226.8 kg) | $31.00 |
| **33570** | 1.06 in | 26.9 mm | 1.06 in | 26.9 mm | 2.25 in | 57.2 mm | 3/8-24 UNF | 1/2-13 UNC | 500 lb (226.8 kg) | $28.00 |
| **33571** | 1.31 in | 33.3 mm | 1.31 in | 33.3 mm | 2.75 in | 69.9 mm | 1/2-13 UNC | 5/8-11 UNC | 3,000 lb (1,360.8 kg) | $28.00 |
| **33572** | 0.87 in | 22.0 mm | 0.87 in | 22.0 mm | 2.00 in | 50.8 mm | 1/2-13 UNC | 1/2-20 UNF | 3,000 lb (1,360.8 kg) | $31.00 |
| **33573** | — | — | — | — | 2.06 in | 52.3 mm | 1/2-20 UNF | 1/2-20 UNF | 3,000 lb (1,360.8 kg) | $31.00 |
| **33574** | 1.31 in | 33.3 mm | 1.31 in | 33.3 mm | 2.75 in | 69.9 mm | 1/2-20 UNF | 5/8-11 UNC | 3,000 lb (1,360.8 kg) | $34.00 |
| **33575** | 1.31 in | 33.3 mm | 1.31 in | 33.3 mm | 3.00 in | 76.2 mm | 3/4-16 UNF | 3/4-10 UNC | 7,000 lb (3,175.2 kg) | $36.00 |

**Do not exceed the safe load*

*Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.*





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# ITCM - Isolated Tension Cell Mount Hardware Kits



*Mount only - does not include load cell*

The Isolated Tension Cell Mount (ITCM) is a mounting assembly designed for tension mounting s-beam load cells in suspended hopper assemblies and mechanical scale conversions. The ITCM incorporates clevis and unique rod end ball joint assemblies, reducing the overall length to less than half of traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further guarantee load cell safety.

## Standard Features

- Provides greater safety than traditional/ suspension configurations
- Complete package for ease of installation
- Built-in electrical isolation without having to use isolators (not available on 20,000 lb/ 9,071.9 kg version)
- Provides correct load cell loading even in difficult installations
- Dramatically reduces overall length
- Capacities from 100 lb (45.4 kg) to 20,000 lb (9,071.9 kg)
- Clevis mounts with nylon insulating washers
- PTFE-lined rod end ball joints (not available on 20,000 lb/9,071.9 kg version)
- Completely isolates load cell from stray currents
- Grounding strap for electrical continuity
- Zinc plated clevis

## Applications:

- Suspended hoppers
- Mechanical scale conversions
- Replaces traditional eye bolt, isolator configurations

## Part Number/Price

| Part# | Load Rating | Clevis Thread | Rod End Thread | Safe Load* | Price |
|---|---|---|---|---|---|
| **Mild Steel** | | | | | |
| **17968** | 300 lb (136.1 kg) | 3/8-16 | 3/8-24 | 300 lb (136.1 kg) | $203.00 |
| **17969** | 300 lb (136.1 kg) | 1/2-13 | 3/8-24 | 300 lb (136.1 kg) | $203.00 |
| **17894** | 500 lb (226.8 kg) | 3/8-16 | 1/4-28 | 500 lb (226.8 kg) | $203.00 |
| **17895** | 500 lb (226.8 kg) | 1/2-13 | 1/4-28 | 500 lb (226.8 kg) | $203.00 |
| **17896** | 2,000 lb (907.2 kg) | 1/2-13 | 1/2-20 | 2,000 lb (907.2 kg) | $250.00 |
| **17897** | 2,500 lb (1134.0 kg) | 5/8-11 | 1/2-20 | 2,500 lb (1,134.0 kg) | $250.00 |
| **17898** | 4,000 lb (1814.4 kg) | 3/4-10 | 1/2-20 | 4,000 lb (1,814.4 kg) | $250.00 |
| **17899** | 5,000 lb (2268.0 kg) | 3/4-10 | 3/4-16 | 5,000 lb (2,268.0 kg) | $295.00 |
| **17900** | 10,000 lb (4535.9 kg) | 1-8 | 3/4-16 | 10,000 lb (4,535.9 kg) | $295.00 |
| **17958** | 15,000 lb (RL20000) (6803.9 kg) | 1 1/4-7 | 1-12 | 15,000 lb (6,803.9 kg) | $1,075.00 |
| **63166** | 15,000 lb (RL20001) (6803.9 kg) | 1 1/4-7 | 1-14 | 15,000 lb (6,803.9 kg) | $1,015.00 |
| **17959** | 20,000 lb** (9071.9 kg) | 1 1/2-6 | 1 1/4-12 | 20,000 lb (9,071.9 kg) | $1,015.00 |
| **Stainless Steel** | | | | | |
| **33630** | 500 lb (226.8 kg) | 3/8-16 | 3/8-24 | 500 lb (226.8 kg) | $440.00 |
| **33631** | 300 lb (136.1 kg) | 1/2-13 | 3/8-24 | 300 lb (136.1 kg) | $440.00 |
| **33632** | 500 lb (226.8 kg) | 3/8-16 | 1/4-28 | 500 lb (226.8 kg) | $440.00 |
| **33633** | 500 lb (226.8 kg) | 1/2-13 | 1/4-28 | 500 lb (226.8 kg) | $440.00 |
| **33634** | 2,000 lb (907.2 kg) | 1/2-13 | 1/2-20 | 2,000 lb (907.2 kg) | $550.00 |
| **33635** | 2,500 lb (1,134.0 kg) | 5/8-11 | 1/2-20 | 2,500 lb (1,134.0 kg) | $550.00 |
| **33636** | 3,000 lb (1,360.8 kg) | 3/4-10 | 1/2-20 | 3,000 lb (1,360.8 kg) | $550.00 |
| **33637** | 5,000 lb (2,268.0 kg) | 3/4-10 | 3/4-16 | 5,000 lb (2,268.0 kg) | $980.00 |

*Hardware kits do not include load cell*
**Do not exceed the safe load*
*** Not electrically isolated*
*Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.*
*Note: Replacement parts for mounts can be found in the Replacement Parts Catalog.*



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# Grounding Strap

## Standard Features

- Used in the ITCM assembly
- Tinned copper braid
- Crimped sleeve on ends with 0.25 in (6.4 mm) hole
- Available in 12 in (304.8 mm), 14 in (355.6 mm), 16 in (406.4 mm), 24 in (609.6 mm) or 32 in (812.8 mm) lengths



*Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.*

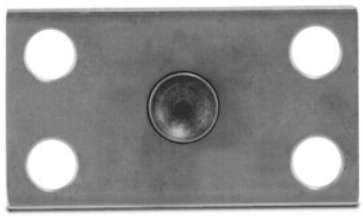
## Part Number/Price

| Part # | Length | | Price |
|---|---|---|---|
| **17778** | 12 in | 304.8 mm | $14.00 |
| **17779** | 14 in | 355.6 mm | $16.00 |
| **17780** | 16 in | 406.4 mm | $17.00 |
| **17781** | 24 in | 609.6 mm | $18.00 |
| **17782** | 32 in | 812.8 mm | $26.00 |

# Load Receiver Plate

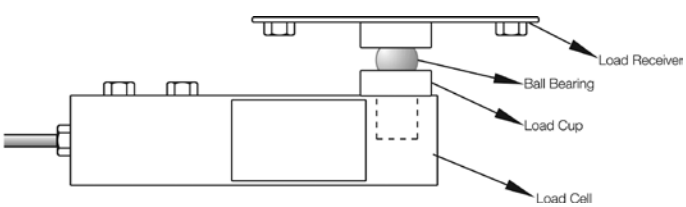
## Standard Features

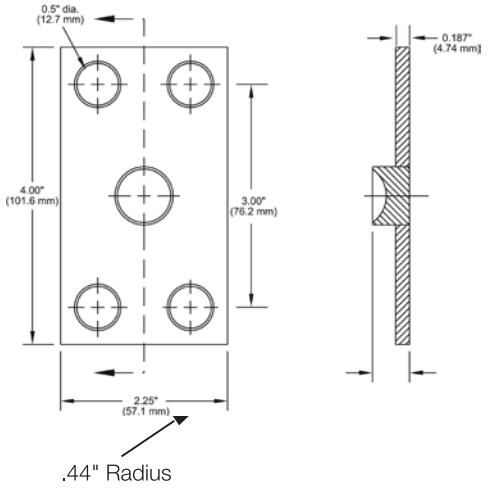
- Design offers accurate point loading
- Self-centering effect built in
- Ease of manufacture for custom applications
- Use with load cup and ball bearings to build a custom scale
- Ball and cup load introduction provides point loading for maximum accuracy
- Stainless steel construction



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **18832** | Load receiver plate | $55.00 each |








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# Ball Bearings



## Standard Features

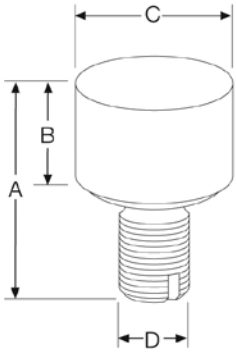
- Use with load cup and load receiver to build a custom scale
- 52100 chrome alloy steel

## Part Number/Price

| Part# | Drawing Dimensions | Price |
|---|---|---|
| **18815** | 5/8 in diameter crush strength 32,000 lb | $12.00 |
| **18816** | 7/8 in diameter crush strength 59,000 lb | $15.00 |
| **65841** | 1.25 in diameter crush strength 100,000 lb | $32.00 |

# Load Cups






## Standard Features

- Ball and cup load introduction provides point loading for maximum accuracy
- For use with most popular single-ended beam load cells
- Constructed of 440C

## Part Number/Price

| Part# | A | | B | | C | | D | Price |
|---|---|---|---|---|---|---|---|---|
| **31911** | 1.70 in | 43.2 mm | 0.54 in | 13.7 mm | 1.07 in | 27.2 mm | 1/2-20 UNF | $50.00 |
| **33654** | 1.12 in | 28.4 mm | 0.54 in | 13.7 mm | 0.78 in | 19.8 mm | 1/2-20 UNF | $40.00 |
| **33653** | 1.50 in | 38.1 mm | 0.80 in | 20.3 mm | 1.12 in | 28.4 mm | 3/4-16 UNF | $41.00 |
| **33652** | 2.00 in | 50.8 mm | 0.85 in | 21.6 mm | 1.75 in | 44.5 mm | 1-12 UNF | $98.00 |
| **33651** | 2.85 in | 72.4 mm | 0.85 in | 21.6 mm | 1.75 in | 44.5 mm | 1-12 UNF | $138.00 |
| **33650** | 2.85 in | 72.4 mm | 0.85 in | 21.6 mm | 1.75 in | 44.5 mm | 1-14 UNF | $138.00 |
| **33647** | 2.75 in | 69.9 mm | 0.50 in | 12.7 mm | 0.75 in | 19.1 mm | 1/2-20 UNF | $49.00 |
| **72364** | 1.78 in | 45.2 mm | 0.53 in | 13.4 mm | 0.78 in | 19.8 mm | 1/2-20 UNF | $60.00 |
| **69431** | Replacement cup for Cardinal® SCA-50,000 load cell | | | | | | | $59.00 |

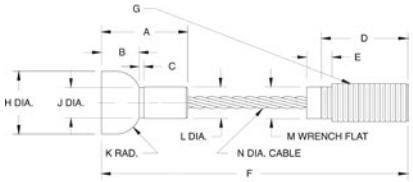


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# Cardinal® Wire Rope Replacement Assemblies

## Standard Features

- EL208 Cardinal wire rope assembly:
- Used on 7,500 lb (3,402.0 kg) capacity FH model and 8,000 lb (3,628.7 kg) capacity EP model.
- EL209 Cardinal wire rope assembly
- Used on 20,000 lb (9,071.9 kg) capacity FH and EP models. May also be used on 15,000 lb (6,803.9 kg) capacity FH and EP models.



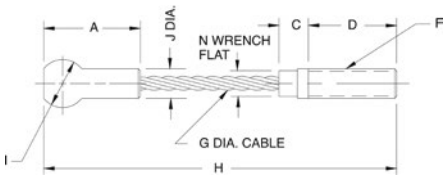

*Part # 17767 EL209*



# Custom Wire Ropes

## Standard Features

- Custom wire ropes are available for your specific applications
- When ordering, please provide the specifications listed on next page, a sample if possible, the required tension rating and total capacity




*Part # 17763 EL208*



## Part Number/Price

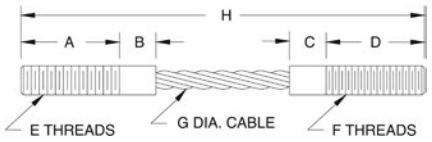
| Part# | A | B | C | D | E | F | G | H | I | J | K | L & M | N | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **17763** | 1.50 in | - | 0.50 in | 1.50 in | - | 1/2-13 UNC in | 0.25 in | 6.00 in | 0.81 in | 0.43 in | - | - | 0.43 in | $98.00 |
| | 38.1 mm | - | 12.7 mm | 38.1 mm | - | – | 6.4 mm | 152.4 mm | 20.6 mm | 10.9 mm | - | - | 10.9 mm | |
| **17767** | 1.71 in | 0.75 in | 0.09 in | 2.00 in | 0.43 in | 6.31 in | 3/4-10 UNC-2A in | 1.25 in | - | 0.60 in | 0.50 in | 0.625 in | 0.375 in | $138.00 |
| | 43.4 mm | 19.1 mm | 2.3 mm | 50.8 mm | 10.9 mm | 160.3 mm | | 31.8 mm | - | 15.2 mm | 12.7 mm | 15.9 mm | 9.5 mm | |

*Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.*

# Wire Rope Assemblies

## Standard Features

- Wire rope assemblies provide better alignment and greatly increase load cell repeatability. In addition, they act as natural vibration dampeners.






## Part Number/Price

| Part# | A | | B & C | | D | | E | F | G | | H | | Safe Load* | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **17760** | 0.87 in | 22.1 mm | 0.50 in | 12.7 mm | 0.87 in | 22.1 mm | 1/4-20 UNC-2A | 1/4-28 UNF-2A | 0.12 in | 3.1 mm | 4.00 in | 101.6 mm | 400 lb (181.4 kg) | $48.00 |
| **17762** | 1.25 in | 31.8 mm | 0.50 in | 12.7 mm | 1.25 in | 31.8 mm | 3/8-16 UNC-2A | 3/8-24 UNF-2A | 0.18 in | 4.6 mm | 5.00 in | 127.0 mm | 850 lb (385.6 kg) | $55.00 |
| **17766** | 1.62 in | 41.1 mm | 0.50 in | 12.7 mm | 1.62 in | 41.1 mm | 1/2-13 UNC-2A | 1/2-20 UNF-2A | 0.25 in | 6.4 mm | 6.50 in | 165.1 mm | 1,400 lb (635.0 kg) | $58.00 |
| **17765** | 1.62 in | 41.1 mm | 0.50 in | 12.7 mm | 1.62 in | 41.1 mm | 1/2-13 UNC-2A | 1/2-20 UNF-2A | 0.25 in | 6.4 mm | 5.50 in | 139.7 mm | 1,400 lb (635.0 kg) | $69.00 |
| **17764** | 1.00 in | 25.4 mm | - | - | 1.37 in | 34.8 mm | 1/2-20 UNF-2A | 1/2-20 UNF-2A | 0.25 in | 6.4 mm | 4.00 in | 101.6 mm | 1,400 lb (635.0 kg) | $87.00 |
| **17768** | 2.00 in | 50.8 mm | - | - | 2.50 in | 63.5 mm | 3/8-24 UNF-2A | 3/8-24 UNF-2A | 0.12 in | 3.1 mm | 5.50 in | 139.7 mm | 400 lb (181.4 kg) | $127.00 |
| **17769**** | 1.25 in | 31.8 mm | - | - | 0.75 in | 19.1 mm | 1/4-28 UNF-2A | 1/4-28 UNF-2A | 0.12 in | 3.1 mm | 3.00 in | 76.2 mm | 400 lb (181.4 kg) | $80.00 |
| **17771**** | 1.25 in | 31.8 mm | - | - | 0.75 in | 19.1 mm | 1/2-20 UNF-2A | 1/2-20 UNF-2A | 0.25 in | 6.4 mm | 3.00 in | 76.2 mm | 1,400 lb (635.0 kg) | $62.00 |
| **115292***** | 1.25 in | 31.8 mm | - | - | 0.75 in | 19.1 mm | 1/4-28 UNF-2A | 1/4-28 UNF-2A | 0.12 in | 3.1 mm | 3.00 in | 76.2 mm | 300 lb (181.4 kg) | $82.00 |
| **33084****** | 1.31 in | 33.2 mm | - | - | 1.00 in | 25.4 mm | 1/2-20 UNF | 1/2-20 UNF | 0.125 in | 3.1 mm | 3.62 in | 76.2 mm | 850 lb (385.6 kg) | $77.00 |

**Do not exceed the safe load **Used with Rice Lake Weighing Systems flexure bases***Stainless steel ****Used with Rice Lake Weighing Systems FXB flexure bases*





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# Custom Wire Rope Definition Form

Customer's Name:_____

Contact Person:_____

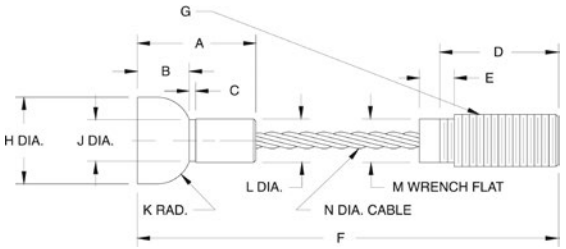
Date:_____

Application:_____

_____

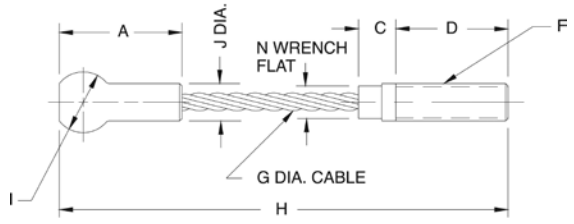
| Wire Rope* (Enter Dimensions to Form) | | |
|---|---|---|
| A Thread length | F Threads | K Safe load |
| B Shank length | G Rope diameter | L Environment |
| C Shank length | H Overall length | M Application |
| D Thread length | I Ball diameter | N Style |
| E Threads | J Shank diameter | O Desired Material |

**Use drawings below for reference*



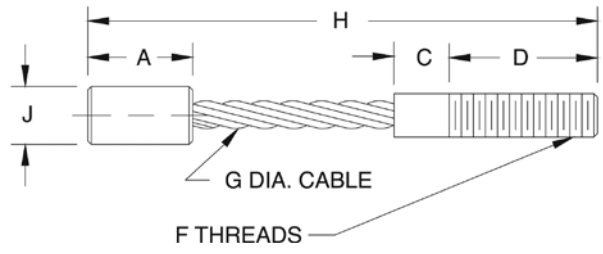



*Style A*



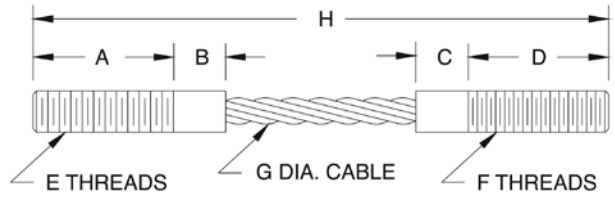



*Style B*






*Style C*





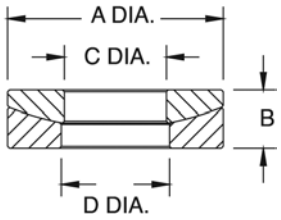

*Style D*

*Style E*



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# Spherical Washer Sets





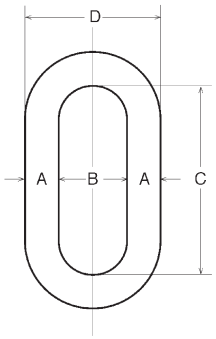

## Part Number/Price

| Part # | Bolt Size | | A | | B | | C | | D | | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mild Steel** | | | | | | | | | | | |
| **15196** | 0.25 in | 6.4 mm | 0.62 in | 15.8 mm | 0.20 in | 5.1 mm | 0.28 in | 7.1 mm | 0.31 in | 7.9 mm | $13.00 |
| **15197** | 0.38 in | 9.7 mm | 0.88 in | 22.4 mm | 0.25 in | 6.4 mm | 0.41 in | 10.4 mm | 0.44 in | 11.2 mm | $16.00 |
| **15198** | 0.50 in | 12.7 mm | 1.12 in | 28.5 mm | 0.31 in | 7.9 mm | 0.53 in | 13.5 mm | 0.56 in | 14.2 mm | $6.00 |
| **15199** | 0.62 in | 15.8 mm | 1.38 in | 35.1 mm | 0.31 in | 7.9 mm | 0.66 in | 16.8 mm | 0.69 in | 17.5 mm | $17.00 |
| **15200** | 0.75 in | 19.1 mm | 1.62 in | 41.1 mm | 0.38 in | 9.7 mm | 0.78 in | 19.8 mm | 0.81 in | 20.6 mm | $22.00 |
| **15201** | 1.00 in | 25.4 mm | 2.00 in | 50.8 mm | 0.50 in | 12.7 mm | 1.06 in | 26.9 mm | 1.12 in | 28.5 mm | $35.00 |
| **15202** | 1.25 in | 31.8 mm | 2.62 in | 66.6 mm | 0.50 in | 12.7 mm | 1.31 in | 33.3 mm | 1.38 in | 35.1 mm | $66.00 |
| **15203** | 1.50 in | 38.1 mm | 2.88 in | 73.2 mm | 0.53 in | 13.5 mm | 1.56 in | 39.6 mm | 1.62 in | 41.1 mm | $72.00 |
| **15205** | 2.00 in | 50.8 mm | 3.88 in | 98.6 mm | 0.81 in | 20.6 mm | 2.06 in | 52.3 mm | 2.12 in | 53.8 mm | $115.00 |
| **Stainless Steel** | | | | | | | | | | | |
| **33218** | 0.50 in | 12.7 mm | 1.12 in | 28.5 mm | 0.31 in | 7.9 mm | 0.53 in | 13.5 mm | 0.56 in | 14.2 mm | $24.00 |
| **33220** | 0.75 in | 19.1 mm | 1.62 in | 41.1 mm | 0.38 in | 9.7 mm | 0.78 in | 19.8 mm | 0.81 in | 20.6 mm | $34.00 |

# Weldless End Links

## Standard Features

- Self-colored or hot-dip galvanized
- Forged carbon steel quenched and tempered






## Part Number/Price

| Part # | A | | B | | C | | D | | Safe Load* | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **F312L** | 0.625 in | 15.9 mm | 1.00 in | 25.4 mm | 3.25 in | 82.6 mm | 2.32 in | 58.9 mm | 9,300 lb (4,218.4 kg) | $52.00 |
| **17810** | 0.875 in | 22.2 mm | 2.00 in | 50.8 mm | 5.13 in | 130.3 mm | 3.75 in | 95.3 mm | 12,000 lb (5,443.1 kg) | $155.00 |
| **21911** | 1.00 in | 22.2 mm | 2.25 in | 57.2 mm | 5.75 in | 146.1 mm | 4.25 in | 108.0 mm | 15,200 lb (6,894.6 kg) | $315.00 |
| **65430** | 1.25 in | 31.8 mm | 2.50 in | 63.5 mm | 7.00 in | 177.8 mm | 5.00 in | 127.0 mm | 26,400 lb (11,974.9 kg) | $140.00 |
| **21912** | 1.375 in | 34.9 mm | 2.75 in | 69.9 mm | 7.75 in | 196.9 mm | 5.50 in | 139.7 mm | 30,000 lb (13,607.8 kg) | $450.00 |

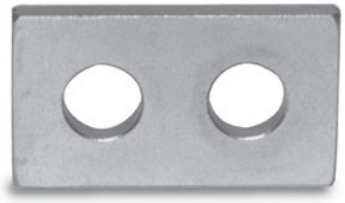
**Do not exceed the safe load*

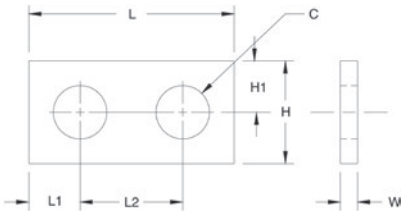




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# Load Cell Spacers






## Standard Features

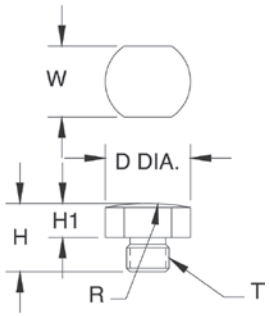
- Use with most popular single-ended beams
- Provides flat mounting surface required for optimum load cell performance
- Zinc-plated mild steel or stainless steel

## Part Number/Price

| Part# | C | | H | | H1 | | L | | L1 | | L2 | | W | | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mild Steel** | | | | | | | | | | | | | | | |
| **17754** | 0.53 in | 13.4 mm | 1.25 in | 31.8 mm | 0.62 in | 15.7 mm | 2.25 in | 57.2 mm | 0.62 in | 15.7 mm | 1.00 in | 25.4 mm | 0.25 in | 6.4 mm | $25.00 |
| **17755** | 0.78 in | 19.8 mm | 1.50 in | 38.1 mm | 0.75 in | 19.1 mm | 3.00 in | 76.2 mm | 0.75 in | 19.1 mm | 1.50 in | 38.1 mm | 0.25 in | 6.4 mm | $25.00 |
| **17756** | 1.03 in | 26.2 mm | 2.00 in | 50.8 mm | 1.00 in | 25.4 mm | 4.00 in | 101.6 mm | 1.00 in | 25.4 mm | 2.00 in | 50.8 mm | 0.25 in | 6.4 mm | $26.00 |
| **18260** | 0.53 in | 13.4 mm | 1.25 in | 31.8 mm | 0.62 in | 15.7 mm | 2.25 in | 57.2 mm | 0.62 in | 15.7 mm | 1.00 in | 25.4 mm | 0.37 in | 9.4 mm | $27.00 |
| **Stainless Steel** | | | | | | | | | | | | | | | |
| **17757** | 0.78 in | 19.8 mm | 1.50 in | 38.1 mm | 0.75 in | 19.1 mm | 3.00 in | 76.2 mm | 0.75 in | 19.1 mm | 1.50 in | 38.1 mm | 0.25 in | 6.4 mm | $32.00 |
| **18383** | 0.53 in | 13.4 mm | 1.25 in | 31.8 mm | 0.62 in | 15.7 mm | 2.25 in | 57.2 mm | 0.62 in | 15.7 mm | 1.00 in | 25.4 mm | 0.37 in | 9.4 mm | $27.00 |
| **18411** | 0.53 in | 13.4 mm | 1.25 in | 31.8 mm | 0.62 in | 15.7 mm | 2.25 in | 57.2 mm | 0.62 in | 15.7 mm | 1.00 in | 25.4 mm | 0.25 in | 6.4 mm | $28.00 |

# Load Button





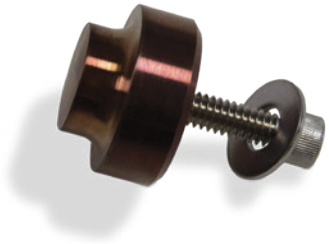

## Standard Features

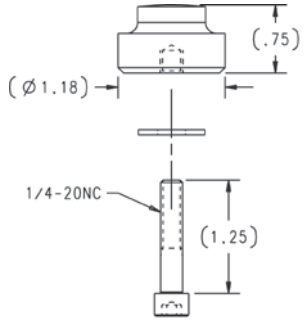
- Suitable for use with compression mounting assemblies, canisters, s-beams and single-ended beams
- Hardened alloy steel

## Part Number/Price

| Part# | T | D | | H | | H1 | | R | | W | | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **17750** | 3/8-24 UNF | 0.75 in | 19.1 mm | 0.60 in | 15.2 mm | 0.30 in | 7.6 mm | 2.00 in | 50.8 mm | 0.63 in | 16.0 mm | $32.00 |
| **17751** | 1/2-20 UNF | 0.75 in | 19.1 mm | 0.70 in | 17.8 mm | 0.30 in | 7.6 mm | 4.00 in | 101.6 mm | 0.63 in | 16.0 mm | $26.00 |
| **17752** | 3/4-16 UNF | 1.50 in | 38.1 mm | 0.90 in | 22.9 mm | 0.30 in | 7.6 mm | 6.00 in | 152.4 mm | 1.25 in | 31.8 mm | $43.00 |

# Load Button Insert Kit






## Standard Features

- To be used with RLSSB and RTI SSB load cells (1,000-5,000 lb)
- Hardened alloy steel

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **26112** | Load button insert kit | $32.00 |



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# Surefoot™

## Standard Features

- Replacement foot, adapts to most floor scales
- Use with single-ended beams to provide large, flat, adjustable introduction surface
- Special neoprene rubber sandwich base gives high accuracy, linearity and repeatability



## Part Number/Price

| Part # | Material | Thread Size | Base Ht. | | Total Ht. | | Diameter | | Price |
|---|---|---|---|---|---|---|---|---|---|
| **18756** | Stainless steel | 1/2-20 UNF | 0.75 in | 19.1 mm | 2.62 in | 66.5 mm | 3.47 in | 88.1 mm | $45.00 |
| **39021** | Mild steel | 3/4-16 UNF-2B | 0.875 in | 22.3 mm | 3.25 in | 82.3 mm | 4.40 in | 111.76 mm | $86.00 |
| **39022** | Mild steel | 3/4-16 UNF-2B | 0.875 in | 22.3 mm | 4.06 in | 103.1 mm | 5.40 in | 137.16 mm | $125.00 |
| **110930** | Mild steel | 1-14 UNF | 1.0 in | 25.4 mm | 4.06 in | 103.1 mm | 5.40 in | 137.16 mm | $180.00 |
| **42130** | Stainless steel | M12 | | | 2.62 in | 67 mm | 3.47 in | 88.1 mm | $95.00 |

# Flintec™ Adjustable Rubber Foot

## Standard Features

- Blind hole introduction
- Low profile
- Height adjustable by rotation
- Includes spacer
- Stainless steel



*SLB, SB4, SB5, SB14 and SB6*



*BK2*

## Part Number/Price

| Part # | Foot Diameter | | Load Cell Capacity | Price |
|---|---|---|---|---|
| **Flintec SLB, SB4, SB5, SB14 and SB6** | | | | |
| **46230** | 2.36 in | 60 mm | 200 lb-500 lb | $56.00 |
| **77561** | 3.14 in | 80 mm | 1,000 lb-5,000 lb | $56.00 |
| **Flintec BK2** | | | | |
| **87096** | 3.140 in | 80 mm | 200 kg-2,000 kg | $56.00 |





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# Bench Scale Feet



*107476* *19141* *35128*

## Standard Features

- Rubber pad
- 1/4-20 UNC threads
- Stainless steel
- 3/8-16 UNC threads

## Part Number/price

| Part# | Description | Price |
|---|---|---|
| **Rubber Pad** | | |
| **35128** | Bench scale feet | $12.75 |
| **107476** | CW 90/CW 90X feet | $19.00 |
| **Stainless Steel** | | |
| **19141** | Bench scale feet | $5.50 |

# Polyurethane Rubber Leveling Feet



## Standard Features

- 3 in (76.2 mm) overall height, all diameters
- Stainless steel stem for corrosion resistance
- Heavy-duty construction, low-cost replacement feet
- Four standard diameters all with 1/2-20 UNF SS stud, slotted for top-access applications
- Zinc plated carbon steel jam nut provided
- Top of stud is machined undersize 10 percent for easy alignment into load cell

## Part Number/Price

| Part# | Foot Diameter | Height | Price |
|---|---|---|---|
| **74585** | 1.87 in | 3 in | $28.00 |
| **74586** | 2.00 in | 3 in | $28.00 |
| **74587** | 2.50 in | 3 in | $28.00 |
| **73801** | 3.00 in | 3 in | $28.00 |



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# Captured Ball Floor Scale Leveling Feet

## Standard Features

- Carbon Steel
- Bright zinc and clear chromate plating for corrosion resistance
- Active ball suspension provides ideal load cell loading with maximum side load protection
- Hardened alloy steel with plated finish
- Includes two jam nuts, one for wrench access
- Top of stud is machined undersized 10 percent for easy alignment into load cell plus slotted for top-access applications
- Stainless steel
- Provides outstanding accuracy, repeatability and performance
- Active ball suspension provides optimum load cell performance
- Hardened stainless steel material, welded with polished finish
- Includes two stainless steel jam nuts, one for wrench access
- Top of stud is machined undersized 10 percent for easy alignment into load cell plus slotted for top-access applications



*Carbon*



*Stainless Steel*

## Part Number/Price

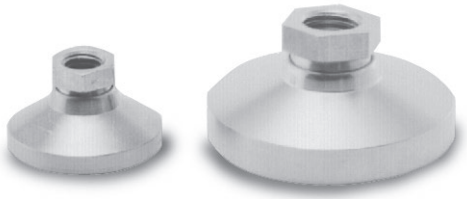
| Part # | Foot Diameter | Thread Size Inches | Height | Price |
|---|---|---|---|---|
| **Carbon Steel** | | | | |
| **74578** | 1.87 in | 1/2-20 UNF | 3.5 in | $40.00 |
| **74579** | 2.00 in | 1/2-20 UNF | 3.5 in | $40.00 |
| **74580** | 2.50 in | 1/2-20 UNF | 3.5 in | $40.00 |
| **74581** | 3.00 in | 1/2-20 UNF | 3.5 in | $40.00 |
| **74582** | 3.00 in | 3/4-16 UNF | 4.5 in | $50.00 |
| **74583** | 3.00 in | 1-12 UNF | 4.5 in | $60.00 |
| **74584** | 3.00 in | 1-14 UNF | 4.5 in | $60.00 |
| **171449** | 3.00 in | 1-14 UNF | 5.0 in | $75.00 |
| **173018** | 4.40 in | 3/4-16 UNF | 3.13 in | $86.00 |
| **174937** | 5.40 in | 3/4-16 UNF | 4.13 in | $125.00 |
| **Stainless Steel** | | | | |
| **74572** | 1.87 in | 1/2-20 UNF | 3.5 in | $58.00 |
| **74573** | 2.00 in | 1/2-20 UNF | 3.5 in | $58.00 |
| **73800** | 2.50 in | 1/2-20 UNF | 3.5 in | $58.00 |
| **74574** | 3.00 in | 1/2-20 UNF | 3.5 in | $58.00 |
| **74575** | 3.00 in | 3/4-16 UNF | 4.5 in | $68.00 |
| **74576** | 3.00 in | 1-12 UNF | 4.5 in | $88.00 |
| **74577** | 3.00 in | 1-14 UNF | 4.5 in | $88.00 |
| **92380*** | 2.50 in | 1/2-20 UNF | 3.5 in | $58.00 |
| **175615** | 3.47 in | 1/2-20NF | 2.62 in | $86.00 |

**Stem is fully threaded*



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# Leveling Pads



## Standard Features

- Replacement feet, adapt to most floor scales
- Available in cadmium-plated steel or stainless steel
- Simple swivel design
- Use with single-ended shear beams or bending beams to provide a large, flat load introduction surface

## Part Number/Price

| Part# | Thread Size | Height | Diameter | Price |
|---|---|---|---|---|
| **Mild Steel** | | | | |
| **18817** | 1/2-13 NC | 1.12 in | 1.87 in | $25.00 |
| **18820** | 3/4-10 NC | 1.50 in | 3.00 in | $44.00 |
| **Stainless Steel** | | | | |
| **18818** | 1/2-13 NC | 1.12 in | 1.87 in | $59.00 |
| **18833** | 3/4-10 NC | 1.50 in | 3.00 in | $103.00 |

*Used in conjunction with leveling pad stems*

# Leveling Mount



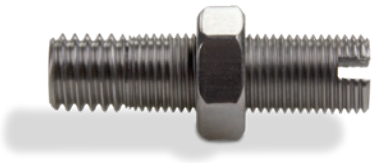
## Standard Features

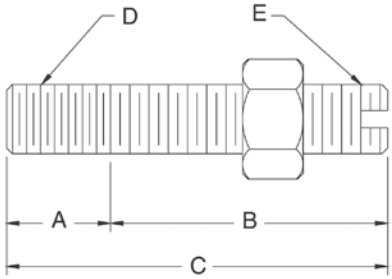
- Designed for use with some floor scales or machinery platforms
- Can be used as a replacement foot on the SP floor scale to limit vibrations transmitted to the scale through the floor
- Provides vibration isolation on most portable platforms

## Part Number/Price

| Part# | Thread Size | Height | Diameter | Price |
|---|---|---|---|---|
| **18819** | 1/2-13 NC | 1.81 in | 5.00 in | $100.00 |

# Leveling Pad Stems






## Standard Features

- For use with leveling pads
- One jam nut included

## Part Number/Price

| Part# | A | | B | | C | | D | E | Slot | Material | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mild Steel** | | | | | | | | | | | |
| **17693** | 0.75 in | 19.1 mm | 2.00 in | 50.8 mm | 2.75 in | 69.9 mm | 3/4-10 UNC | 3/4-16 UNF | NO | 1045 | $16.00 |
| **Stainless Steel** | | | | | | | | | | | |
| **17689** | 0.50 in | 12.7 mm | 1.50 in | 38.1 mm | 2.00 in | 50.8 mm | 1/2-13 UNC | 1/2-20 UNF | YES | SS | $24.00 |
| **17695** | 0.75 in | 19.1 mm | 2.00 in | 50.8 mm | 2.75 in | 69.9 mm | 3/4-10 UNC | 3/4-16 UNF | NO | SS | $38.00 |

*Warning: Do not use to suspend a load*

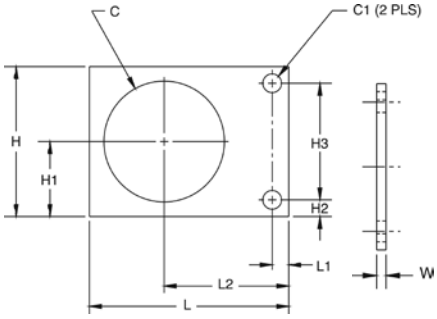


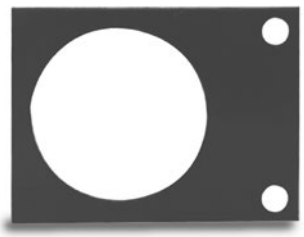
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# RoughDeck® Scale Base

## Standard Features

- Secures RoughDeck and other popular floor scales
- Prevents movement in horizontal plane
- Useful with Surefoot™ and other load cell foot assemblies
- Available in stainless steel and mild steel



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **19075** | Mild steel, 1,000 lb-10,000 lb | $18.00 |
| **19076** | Stainless steel, 1,000 lb-10,000 lb | $23.00 |

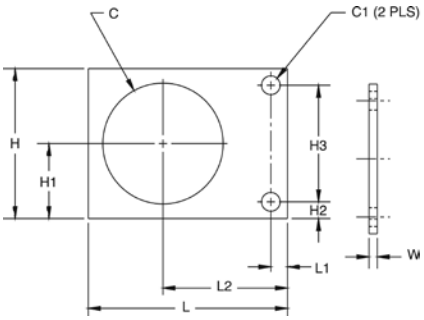
## Dimensions

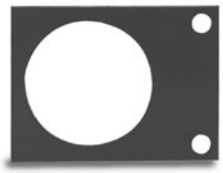
| Part # | C | C1 | H | H1 | H2 | H3 | L | L1 | L2 | W |
|---|---|---|---|---|---|---|---|---|---|---|
| **19075** | 3.62 in | 0.56 in | 4.50 in | 2.25 in | 0.50 in | 3.50 in | 6.00 in | 0.50 in | 3.75 in | 0.25 in |
| **19076** | 3.62 in | 0.56 in | 4.50 in | 2.25 in | 0.50 in | 3.50 in | 6.00 in | 0.50 in | 3.75 in | 0.25 in |

# Summit® 3000 Scale Base

## Standard Features

- Mounting plate for Summit® 3000 floor scales
- Available in mild steel



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **76149** | Mild steel, 2,000 lb-10,000 lb | $18.00 |

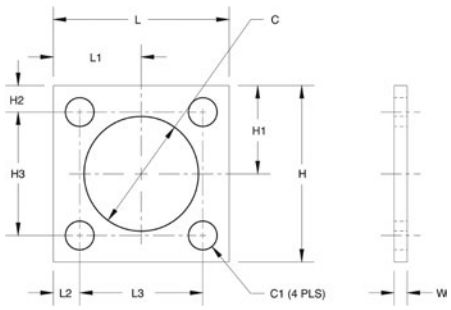
## Dimensions

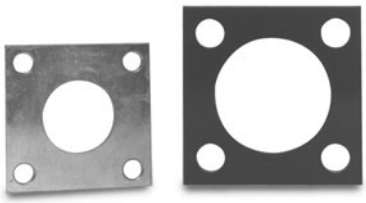
| Part # | C | C1 | H | H1 | H2 | H3 | L | L1 | L2 | W |
|---|---|---|---|---|---|---|---|---|---|---|
| **76149** | 3.19 in | 0.56 in | 4.50 in | 2.25 in | 0.50 in | 3.50 in | 6.00 in | 0.50 in | 3.75 in | 0.25 in |

# Floor Scale Base

## Standard Features

- Suitable for use with leveling pads
- Generic mounting plate for popular floor scales
- Fits most floor scale foot assemblies
- Available in stainless steel and mild steel (mild steel parts are zinc plated/painted)



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **18737** | Mild steel, 1,000 lb-10,000 lb | $8.00 |
| **18738** | Mild steel 10,000 lb-20,000 lb | $9.00 |
| **18751** | Stainless steel 1,000 lb-10,000 lb | $32.00 |

## Dimensions

| Part # | C | C1 | H | H1 | H2 | H3 | L | L1 | L2 | L3 |
|---|---|---|---|---|---|---|---|---|---|---|
| **18737** | 2.00 in | 0.53 in | 4.00 in | 2.00 in | 0.50 in | 3.00 in | 4.00 in | 2.00 in | 0.50 in | 3.00 in |
| **18738** | 3.25 in | 0.81 in | 5.00 in | 2.50 in | 0.75 in | 3.50 in | 5.00 in | 2.50 in | 0.75 in | 3.50 in |
| **18751** | 2.00 in | 0.53 in | 4.00 in | 2.00 in | 0.50 in | 3.00 in | 4.00 in | 2.00 in | 0.50 in | 3.00 in |







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# Complete Custom Cable Services




## Standard Features

- Special cable requirements
- Custom-built cable designed specifically for your application
- Choose from design elements and Rice Lake Weighing Systems will build a cable to your specifications
- Quick turnaround
- Competitively priced
- 5,000 ft minimum purchase

## Specifications

**Jacket Material:**
PVC
Polyurethane
Double-jacketed

**Conductors:**
Unlimited number
Twisted pairs
Color code
Gauge

**Shielding:**
Braided
Foil

**Jacket Colors:**
Black, brown, green, orange, red, blue, yellow, gray, natural

**Ink Colors:**
Black, white, silver, orange
Custom logos

**Approvals:**

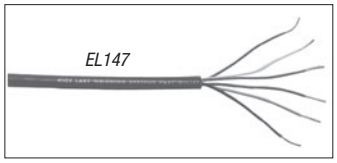


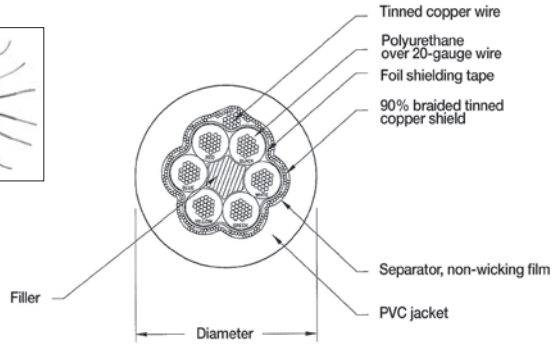
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# EL147, 6 Wire

Standard Load Cell Cable




## Standard Features

- 6-wire load cell cable
- 20 AWG tinned copper wire stranded for flexibility
- Braided shielding is encased in red PVC
- All conductors are industry-standard color coded
- Diameter: 0.29in (7.4mm)
- The six-wire cable is best suited for longer runs where remote sense lines can be used
- Temperature rating: -22°F to 126°F (-30°C to 80°C)

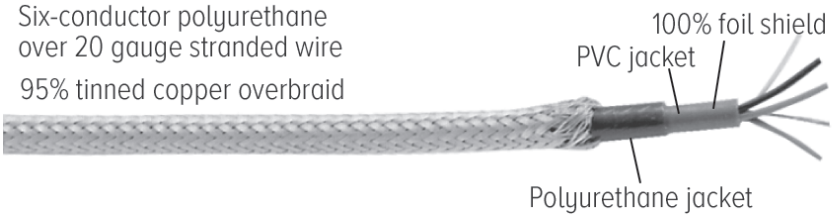
## APPROVALS

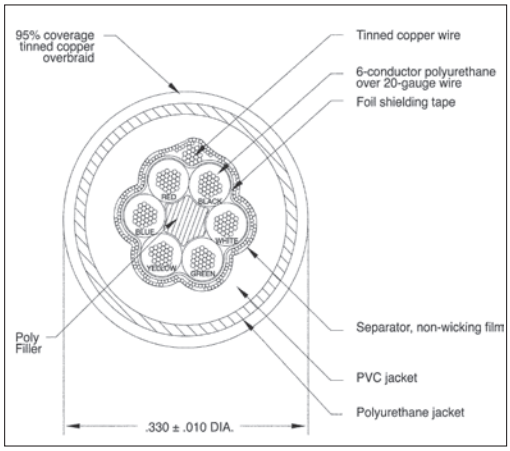
## Part Number/Price

| Part# | Continuous Roll | | Description | Price |
|---|---|---|---|---|
| **15515** | 100 ft | 30.5 m | Six-conductor cable | $195.00 |
| **15516** | 250 ft | 76.2 m | Six-conductor cable | $450.00 |
| **15517** | 500 ft | 152.4 m | Six-conductor cable | $865.00 |
| **15518** | 1000 ft | 304.8 m | Six-conductor cable | $1,695.00 |
| **15495** | Custom Length | | Six-conductor cable | $2.05/ft |

# EL147RP Plus, 6 Wire

Rodent Protection Load Cell Cable




## Standard Features

- Tinned copper overbraid provides superior rodent and abrasion deterrent
- Enhanced EMI/RFI protection
- Six-conductor industry-standard color code
- Ideal for truck and railroad-track scales
- Diameter: 0.33 in (8.38 mm)
- Temperature rating -22°F to 176°F (-30°C to 80°C)
- Jacket coating enhanced with a chemical coating "NAW" that is distasteful to rodents

## Part Number/Price

| Part# | Continuous Roll | | Description | Price |
|---|---|---|---|---|
| **31475** | Custom length | | Six-conductor hostile environment cable | $3.60/ft |
| **131964** | 100 ft | 30.5 m | Six-conductor hostile environment cable | $350.00 |
| **131965** | 250 ft | 76.2 m | Six-conductor hostile environment cable | $845.00 |
| **131966** | 500 ft | 152.4 m | Six-conductor hostile environment cable | $1,685.00 |
| **131967** | 1,000 ft | 304.8 m | Six-conductor hostile environment cable | $3,295.00 |



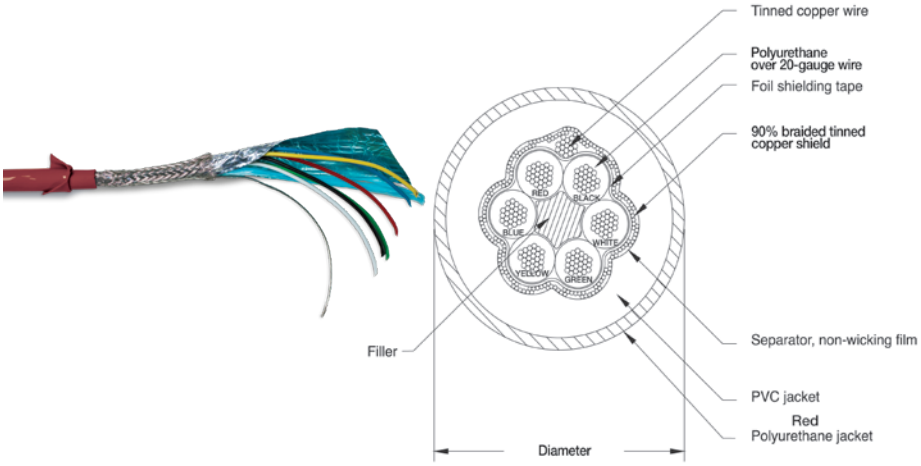
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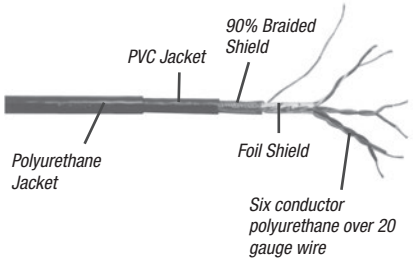
# EL147HE, 6 Wire

Hostile Environment Load Cell Cable

## Standard Features

- Designed for use in hostile environments
- Polyurethane jacketing provides superior chemical and abrasion resistance
- RFI and EMI protected with foil overbraid shield
- Unmatched durability, yet extremely flexible
- All conductors are industry-standard color coded
- Diameter: 0.32 in (8.1 mm)
- Temperature rating: -22°F to 176°F (-30°C to 80°C)
- 500 V rating




## Part Number/Price

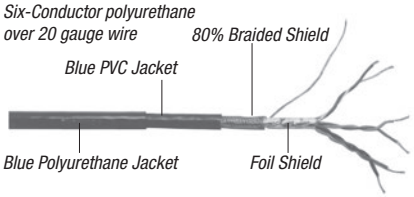
| Part # | Continuous Roll | | Description | Price |
|---|---|---|---|---|
| **15520** | 100 ft | 30.5 m | Six-conductor hostile environment cable | $235.00 |
| **15521** | 250 ft | 76.2 m | Six-conductor hostile environment cable | $575.00 |
| **15522** | 500 ft | 152.4 m | Six-conductor hostile environment cable | $1,075.00 |
| **15523** | 1,000 ft | 304.8 m | Six-conductor hostile environment cable | $1,910.00 |
| **15496** | Custom Length | | Six-conductor hostile environment cable | $2.50/ft |

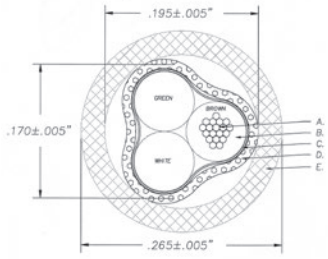
# EL147IS, 6 Wire

Hazardous Environment Blue Jacket Load Cell Cable

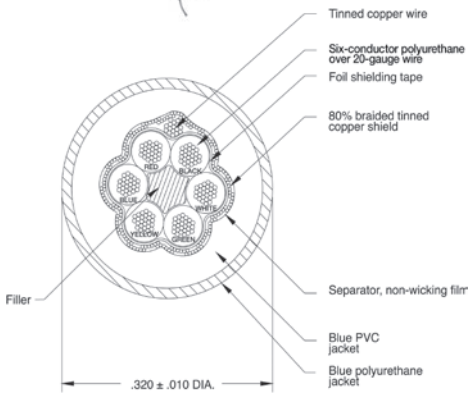
## Standard Features

- Designed for intrinsically safe applications (must be wired according to Factory Mutual System-approved diagram)
- Polyurethane over PVC double jacketing provides superior chemical and abrasion resistance
- Both foil and braided wire shields for added RFI and EMI protection
- Six-conductor is industry-standard color coded (Also available three-conductor)
- Suited for longer runs where remote sense lines can be used
- Temperature rating: -22°F to 176°F (-30°C to 80°C)
- Diameter: 0.32 in (8.1 mm)




*Three-conductor cable*




## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **32817** | EL147IS, blue jacket six-conductor | $2.95/ft |
| **72241** | Blue jacket, shielded three-conductor, UL and CSA recognized | $2.35/ft |

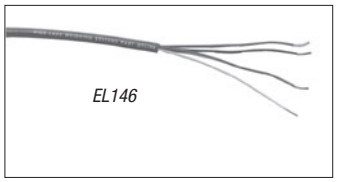


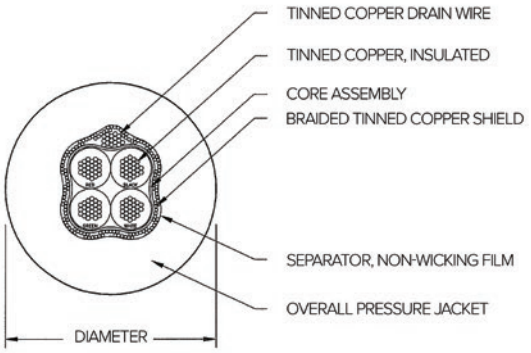


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# EL146, 4 Wire

Standard Load Cell Cable




## Standard Features

- 4-wire load cell cable
- 20 AWG tinned copper wire stranded for flexibility
- Braided shielding is encased in red PVC
- All conductors are industry-standard color coded
- Diameter: 0.25 in (6.2 mm);
- Use the four-wire cable for repairing or extending existing cable
- Temperature rating: -22°F to 126°F (-30°C to 80°C)

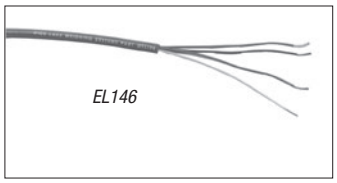
## APPROVALS

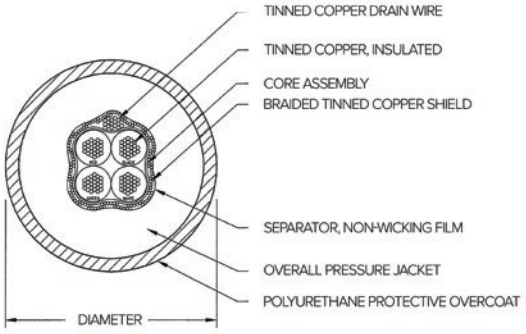
## Part Number/Price

| Part # | Continuous Roll | | Description | Price |
|---|---|---|---|---|
| **15505** | 100 ft | 30.5 m | Four-conductor cable | $125.00 |
| **15506** | 250 ft | 76.2 m | Four-conductor cable | $295.00 |
| **15507** | 500 ft | 152.4 m | Four-conductor cable | $595.00 |
| **15508** | 1000 ft | 304.8 m | Four-conductor cable | $995.00 |
| **15493** | Custom Length | | Four-conductor cable | $1.35/ft |

# EL146HE, 4 Wire

Hostile Environment Load Cell Cable




## Standard Features

- Designed for use in hostile environments
- Polyurethane jacketing provides superior chemical and abrasion resistance
- RFI and EMI protected with foil overbraid shield
- Unmatched durability, yet extremely flexible
- All conductors are industry-standard color coded
- Diameter: 0.32 in (8.1 mm)
- Temperature rating: -22°F to 176°F (-30°C to 80°C)
- 500 V rating

## Part Number/Price

| Part # | Continuous Roll | | Description | Price |
|---|---|---|---|---|
| **15510** | 100 ft | 30.5 m | Four-conductor hostile environment cable | $155.00 |
| **15511** | 250 ft | 76.2 m | Four-conductor hostile environment cable | $385.00 |
| **15512** | 500 ft | 152.4 m | Four-conductor hostile environment cable | $745.00 |
| **15513** | 1,000 ft | 304.8 m | Four-conductor hostile environment cable | $1,495.00 |
| **15494** | Custom Length | | Four-conductor hostile environment cable | $1.65/ft |



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# EL144 Communications Cable

## Standard Features

- Two-conductor with bare ground
- RFI/EMI protected with foil shield
- 20 gauge conductors
- Perfect for RS-232, two-wire RS-485 and 20 mA current loop communications
- Diameter: 0.19 in(4.8 mm)



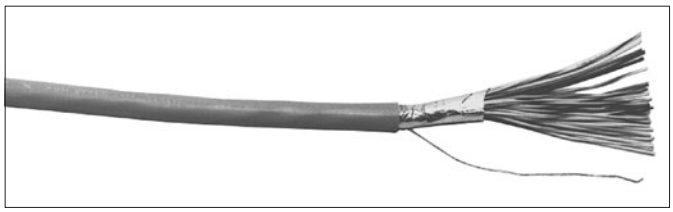
### Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **32803** | EL144 | $0.90/ft |
| **72691** | EL11, 100 ft | $82.00 |
| **72072** | EL144, 500 ft | $425.00 |
| **72693** | EL144, 1,000 ft | $795.00 |

# BCD Cable

## Standard Features

- Sheathed in gray PVC
- Mylar aluminum foil shield with stranded tinned copper drain wire
- Diameter: 0.375 in (9.5 mm)



### Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **15497** | BCD, 24 AWG, 30-conductor | $23.00/ft |





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# Fiber Optic Cable



*Color Code: Black-TXD, Blue-RXD*

## Standard Features

- Duplex cable polyethylene black jacket material
- 4.4 + 0.10 mm outer diameter of duplex cable
- 2.2 + 0.007 mm single cable outer diameter
- Operating temperature: 32°F to 158°F (0°C to 70°C)

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **78910** | Custom length | $1.40/ft |
| **78026** | 100 ft cable (30.48 m) | $140.00 |
| **78027** | 200 ft cable (60.96 m) | $280.00 |
| **78028** | 300 ft cable (91.44 m) | $415.00 |
| **83052*** | Fiber optic connector | $40.00 |
| **80892** | Fiber optic cable cutter | $9.00 |
| **85548** | Fiber optic hot knife | $48.00 |

**Duplex fiber cable requires two connectors*

**Maximum guaranteed transmission distance when used with the 320IS/IO module is 240 ft*

# SURVIVOR® EL620HE High Temperature Cable



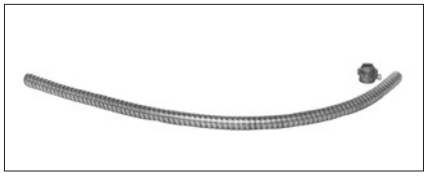
## Standard Features

- Multi-conductor overall foil and braid shield
- Suitable for temperatures from -40°C (-40°F) to 200°C (392°F)
- Insulation thickness - 0.010 in (0.25 mm)
- Jacket thickness - 0.017 in (0.43 mm)
- 18 gauge, tinned copper conductors
- Six wire or six-conductor
- FEP jacket, resistant to chemical corrosion and high temperature
- Aluminum-polyester shield with 85% tinned copper braid shield
- 150 V NEC 725 Class 2 classified for use in an airplenum non-conduit
- 0.24 in diameter cable

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **15605** | EL620HE | $10.25/ft |

# SURVIVOR® Cable Armor



## Standard Features

- Flexible all-metal protective armor
- Ideal for protecting load cell cable from mechanical abrasion or rodents
- Available in stainless steel and galvanized steel
- 0.5 in (12.7 mm) internal diameter, 2.0 in (50.8 mm) minimum bend radius
- Optional end fitting with 1/2 in male pipe thread

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **17808** | Galvanized steel | $3.85/ft |
| **17806** | Stainless steel | $4.85/ft |
| **17807** | Optional end fitting | $2.25 each |



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# EL148HE Replacement Mettler Toledo® Power Cell® Cable

## Standard Features

- 100% stainless steel military connector-electro deposited nickel plating with stainless banding and epoxy heat-shrink strain relief
- Stainless steel artic ring precision cut for improved connection
- Textured rubber boot for additional grip
- Standard Mettler Toledo color code
- Compatible with Mettler Toledo Powercell CMOS/ NMOS and MTX load cells. NOT compatible with Mettler Toledo PDX load cells

*Custom lengths available*



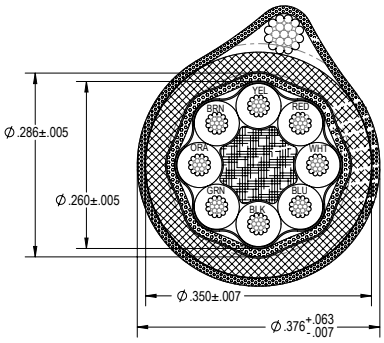
## Part Number/Price

| Part# | Cable Length Each | Price |
|---|---|---|
| **100268** | 8 ft | $325.00 |
| **101102** | 12 ft | $335.00 |
| **104164** | 15 ft | $338.00 |
| **100269** | 26 ft | $375.00 |
| **100270** | 35 ft | $385.00 |

# Mettler Toledo® Power Cell® Homerun Cable

## Standard Features

- Galvanized steel drain wire
- 20 gauge 8 conductors
- Stainless steel braid shield





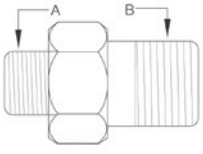

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **194837** | Galvanized steel | $6.00/ft |

# Load Cell Conduit Adaptors

## Standard Features

- Used to adapt conduit to load cells
- 303 stainless steel






*31534*



*31535*



*31533*

## Dimensions

| Part# | A | B | Price |
|---|---|---|---|
| **Thread-On** | | | |
| **31533** | 3/8-24 UNF | — | $33.00 |
| **31534** | — | 1/4-18 NPT | $33.00 |
| **31535** | 5/8-18 UNF | 1/2-14 NPT | $33.00 |

*Note: 31533 and 31534 are used together to form male-to-male adaptor*

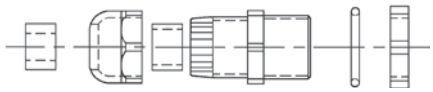




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# Cord Grip Assemblies





## Standard Features

- Assemblies include cord grip, locknut, "O"-ring seal, gray and black reducer glands
- Fittings are made of weather- and corrosion-resistant nylon

## Part Number/Price

| Gland Cable Ranges | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Part # | Thread | Panel Hole Diameter | | Regular (Black) | | Reducer (Gray) | | Price |
| **15669** | PCN9 | 0.625 in | 15.9 mm | 0.157 in-0.314 in | 4.0 mm-8.0 mm | 0.118 in-0.236 in | 3.0 mm-6.0 mm | $4.70 |
| **15670** | 3/8 NPT | 0.687 in | 17.4 mm | 0.157 in-0.314 in | 4.0 mm-8.0 mm | 0.118 in-0.236 in | 3.0 mm-6.0 mm | $4.35 |
| **15671** | 1/2 NPT | 0.844 in | 21.4mm | 0.236 in-0.472 in | 6.0 mm-12.0 mm | 0.200 in-0.354 in | 5.1 mm-9.0mm | $5.00 |

# EL214 Cable Splicing Kit



## Specifications

**Dimensions:**
(W x H x D) 3.00 in x 1.00 in x 1.50 in (76.2 mm x 25.4 mm x 38.1 mm)

**Mounting Centers:**
2.50 in (63.5 mm)

**Number of Connections:**
7

**Cable Diameter:**
0.187 in-0.312 in (4.7 mm-7.9 mm)

**Cure Time For Potting:**
Epoxy-Polyamide resin cures in 2 hours at 73°F (23°C)

## Standard Features

- Designed for a complete, professional transducer cable splice
- Prevents moisture from entering the load cell through the cable connector
- Each kit contains a high-impact plastic splicing box, liquid-tight cable fittings, circuit card, PTFE sleeving, premeasured potting compound and complete instructions
- Solder terminals

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **15485** | EL214 | $125.00 |

# EL214T Cable Splicing Kit



## Specifications

**Dimensions:**
(W x H x D) 3.00 in x 1.00 in x 1.50 in (76.2 mmx 25.4 mm x 38.1 mm)

**Mounting Centers:**
2.50 in (63.5 mm)

**Number of Connections:**
7

**Cable Diameter:**
0.270 in-0.480 in (6.9 mm-12.2 mm)

**Cure Time For Potting:**
Epoxy-Polyamide resin cures in 2 hours at 73°F (23°C)

## Standard Features

- Designed to accommodate cables larger than the EL214; all other dimensions and performance features are the same
- Solder terminals

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **15486** | EL214T | $135.00 |



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# EL215 Cable Splicing Kit

## Specifications

**Dimensions:**
(W x L) 1.375 in x 6.0 in (34.9mm x 152.4 mm)

**Number of Connections:**
7

**Cable Diameter:**
Up to 0.75 in (19.1 mm)

**Cure Time For Potting:**
2 hours at 70°F (21°C)



## Standard Features

- Designed for use in weather-exposed or direct-burial locations
- Each kit contains plastic splicing tube, circuit board, insulating resin and instructions
- Solder terminals

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **15612** | EL215 | $80.00 |

# Flintec™ Load Cell Cable Replacement Kits

## Standard Features

- Each kit includes cable for four Flintec SB4 or UB1 load cells as listed



## Part Number/Price

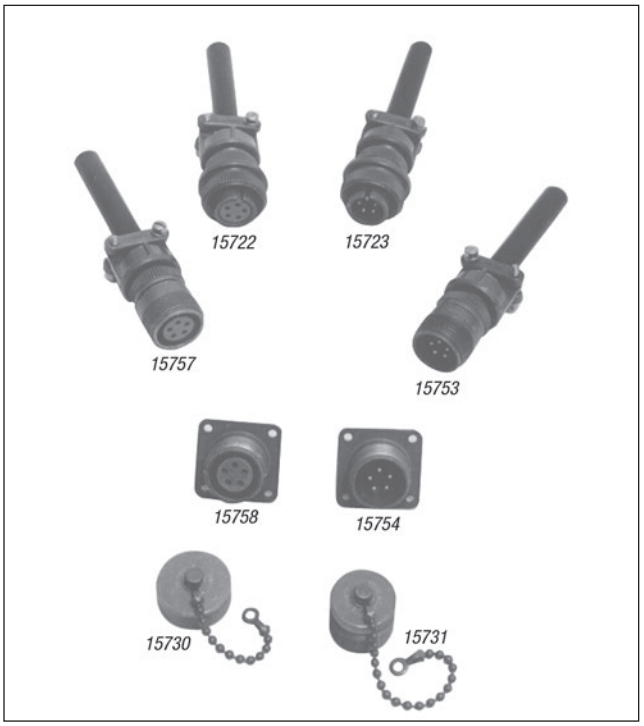
| Part # | Description | Cable Length Ea. Feet (m) | | Price |
|---|---|---|---|---|
| **18412** | For SB4, 225-5,200 lb (102.1-2,358.7 kg) | 10 ft | 3.1 m | $350.00 |
| **18413** | For SB4, 11,250-22,500 lb (5,103-10,206 kg) | 15 ft | 4.6 m | $375.00 |



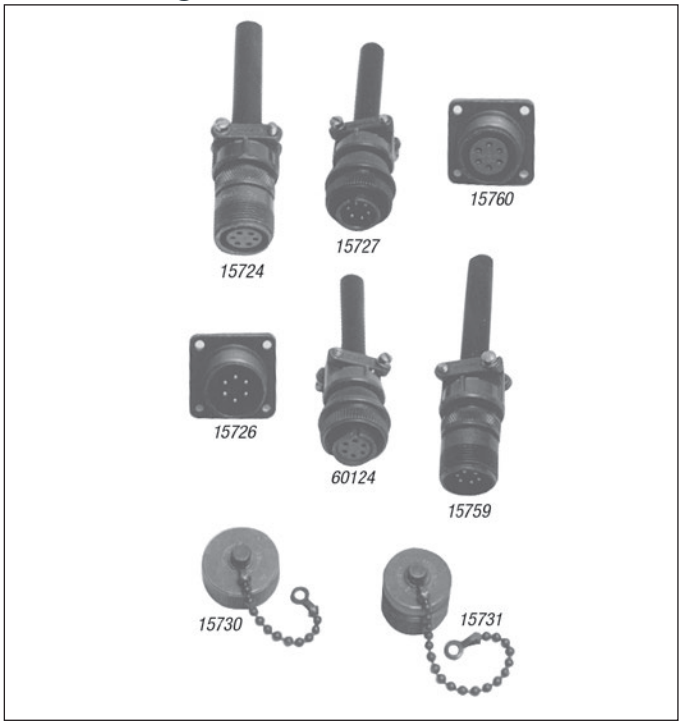


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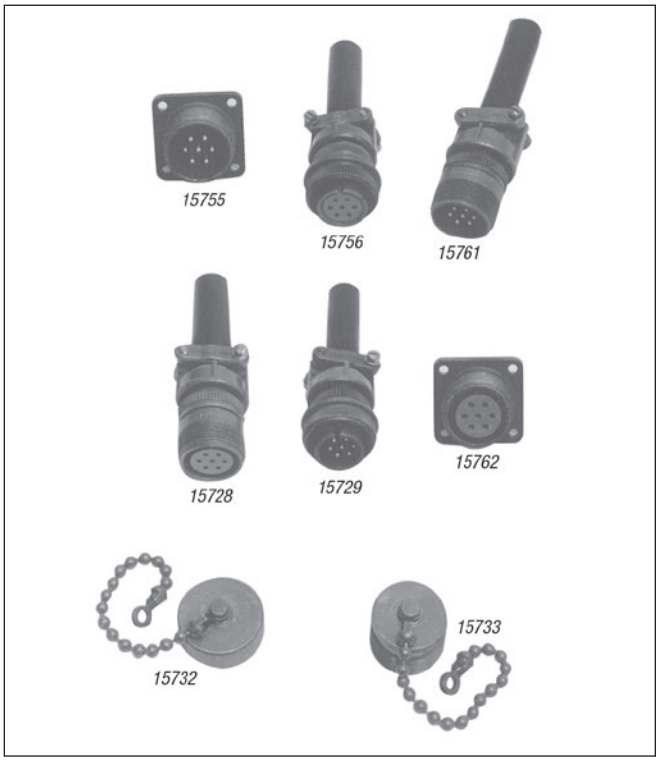
# Five-Position Connectors, Shell Plugs, Receptacles




# Six-Position Connectors, Shell Plugs, Receptacles




# Seven-Position Connectors, Shell Plugs, Receptacles




## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **15753** | Five-Pin, external thread | $28.00 |
| **15722** | Five-socket, internal thread | $29.00 |
| **15723** | Five-Pin, internal thread | $28.00 |
| **15757** | Five-socket, external thread | $34.00 |
| **15754** | Five-Pin chassis mount, external thread | $20.00 |
| **15758** | Five-socket chassis mount, external thread | $20.00 |
| **15730** | Dust cap for ext. thread five-position connector | $11.00 |
| **15731** | Dust cap for int. thread five-position connector | $15.00 |
| **15759** | Six-Pin, external thread, male | $28.00 |
| **60124** | Six-socket, internal thread connector, female fits Toledo load cells, Condec indicators | $24.00 |
| **15727** | Six-Pin, internal thread, male | $27.00 |
| **15724** | Six-socket, external thread | $31.00 |
| **15726** | Six-Pin chassis mount, external thread | $20.00 |
| **15760** | Six-socket chassis mount, external thread | $19.00 |
| **15730** | Dust cap for ext. thread six-position connector | $11.00 |
| **15731** | Dust cap for int. thread six-position connector | $15.00 |
| **15761** | Seven-Pin, external thread | $29.00 |
| **15756** | Seven-socket, internal thread | $31.00 |
| **15729** | Seven-Pin, internal thread | $31.00 |
| **15728** | Seven-socket, external thread | $31.00 |
| **15755** | Seven-Pin chassis mount, external thread | $20.00 |
| **15762** | Seven-socket chassis mount, external thread | $23.00 |
| **15732** | Dust cap for ext. thread seven-position connector | $16.00 |
| **15733** | Dust cap for int. thread seven-position connector | $27.00 |

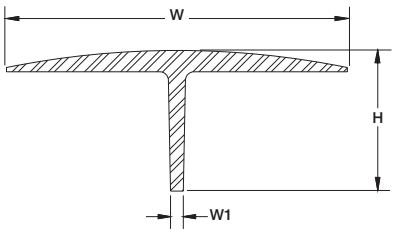


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# T-Grip Molding

## Standard Features

- Designed for use in truck scale applications to prevent spillover into the pit
- Impact, tear and weather-resistant EPDM rubber
- Barbed web to hold molding in place
- Web thickness 0.22 in (5.6 mm)
- Available by the foot or 10.0 ft (3.1 m), 11.0 ft (3.4 m), 70.0 ft (21.34 m), 80.0 ft (24.4 m) and 100.0 ft (30.5 m) lengths
- Maximum continuous length is 450 ft (137 m)






## Part Number/Price

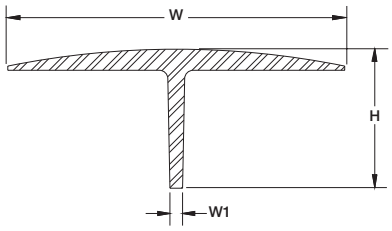
| Part # | H | | W | | W1 | | Length | Price |
|---|---|---|---|---|---|---|---|---|
| **18799** | 2.56 in | 65.0 mm | 5.75 in | 146.1 mm | 0.22 in | 5.6 mm | Sold by the foot | $7.25/ft |
| **18800** | 2.56 in | 65.0 mm | 5.75 in | 146.1 mm | 0.22 in | 5.6 mm | 10 ft 3.05 m | $72.50 |
| **18801** | 2.56 in | 65.0 mm | 5.75 in | 146.1 mm | 0.22 in | 5.6 mm | 11 ft 3.35 m | $79.75 |
| **18802** | 2.56 in | 65.0 mm | 5.75 in | 146.1 mm | 0.22 in | 5.6 mm | 70 ft 21.34 m | $475.00 |
| **33219** | 2.56 in | 65.0 mm | 5.75 in | 146.1 mm | 0.22 in | 5.6 mm | 80 ft 24.4 m | $515.00 |
| **33222** | 2.56 in | 65.0 mm | 5.75 in | 146.1 mm | 0.22 in | 5.6 mm | 100 ft 30.5 m | $650.00 |

*Note: Maximum continuous length is 450 ft. Call for price and availability.*

# T-Strip Molding

## Standard Features

- Designed for use in truck scale applications to prevent spill-over into the pit
- Impact, tear and weather-resistant SBR rubber
- Web thickness 0.25 in (6.4 mm)
- Available by the foot or in—10.0 ft (3.1 m), 11.0 ft (3.4 m), 70.0 ft (21.34 m), 80.0 ft (24.4 m) and 100.0 ft (30.5 m) lengths. Maximum continuous length is 450 ft (137 m).






## Part Number/Price

| Part # | H | | W | | W1 | | Length | Price |
|---|---|---|---|---|---|---|---|---|
| **18736** | 2.00 in | 50.8 mm | 4.50 in | 114.3 mm | 0.25 in | 6.4 mm | Sold by the foot | $6.75/ft |
| **18776** | 2.00 in | 50.8 mm | 4.50 in | 114.3 mm | 0.25 in | 6.4 mm | 10 ft/3.05 m | $67.50 |
| **18797** | 2.00 in | 50.8 mm | 4.50 in | 114.3 mm | 0.25 in | 6.4 mm | 11 ft/3.35 m | $74.25 |
| **18798** | 2.00 in | 50.8 mm | 4.50 in | 114.3 mm | 0.25 in | 6.4 mm | 70 ft/21.34 m | $435.00 |
| **33223** | 2.00 in | 50.8 mm | 4.50 in | 114.3 mm | 0.25 in | 6.4 mm | 80 ft/24.4 m | $485.00 |
| **33224** | 2.00 in | 50.8 mm | 4.50 in | 114.3 mm | 0.25 in | 6.4 mm | 100 ft/30.5 m | $585.00 |

*Note: Maximum continuous length is 450 ft. Call for price and availability.*





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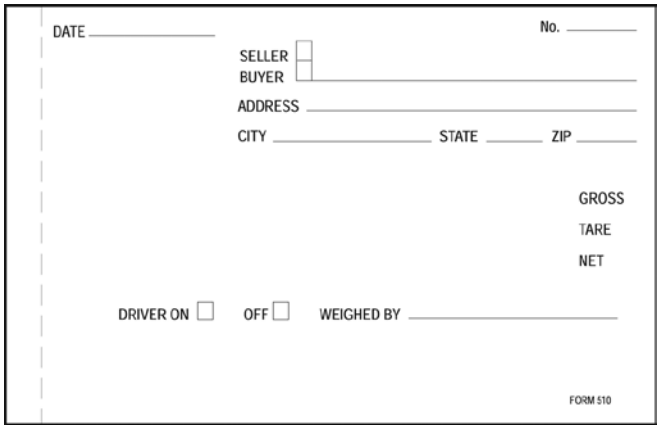
# Electronic Scale Tickets

## Standard Features

**Hecon® Printers, EL522 & EL516 - 20266**

- Carbon triplicate interleaved
- Size (W x L): 4.25 in x 7.875 in (127 mm x 200 mm)
- Order quantity: 500 per package

*20266*

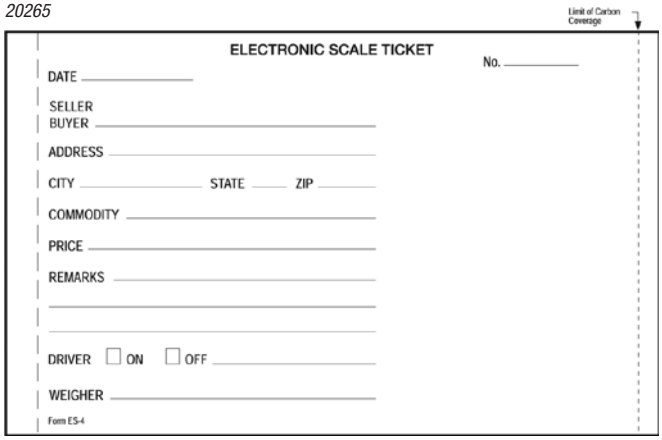



## Standard Features

**SP2200, SP2000 - 20265**

- Carbon triplicate interleaved, perforated and glued on one end
- Size (W x L): 5.5 in x 9 in (139.7 mm x 228.6 mm)
- Order quantity: 500 per package

*20265*




## Standard Features

**Rice Lake Scales - 71630 or 105182**

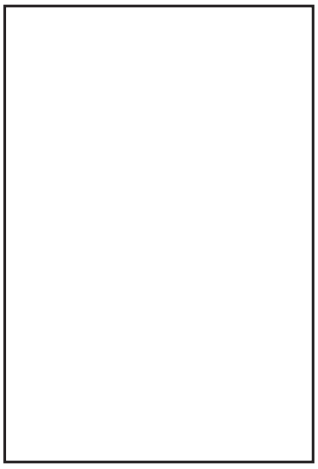
- Carbonless duplicate or triplicate
- Size (W x L): 4.25 in x 7 in (107 mm x 177.8 mm) attached at 4.25 side
- Order quantity: 500 per package
- Custom (Duplicate): Add company name (min. order two packs)
- Custom (Triplicate): Add company name (min. order two packs)




## Standard Features

**Blank Scale Ticket - 22263**

- 3-part carbonless
- White, canary yellow and pink
- Size (W x L): 4.25 in x 5.5 in (108 mm x 140 mm)
- Attached at 4.25 edge
- Custom: Add company name (min. order of 1,000)



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **20266** | Hecon printers, EL522 & EL516, 500/pack | $92.00 |
| **20265** | SP2200, SP2000, EL250 & EL500, 500/pack | $95.00 |
| **71630** | Rice Lake ticket, Two part, 500/pack | $50.00 |
| **105182** | Rice Lake ticket, Three part, 500/pack white, canary yellow, pink | $72.00 |
| **22263** | Blank scale ticket, each | $0.22 each |

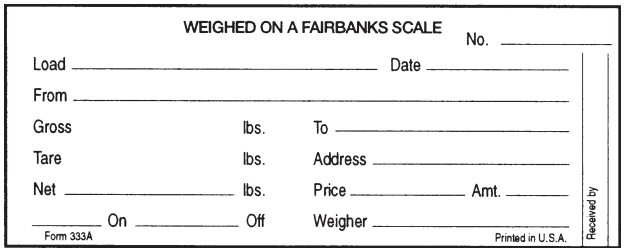


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## Standard Features

**Fairbanks™ Scales - 20260**

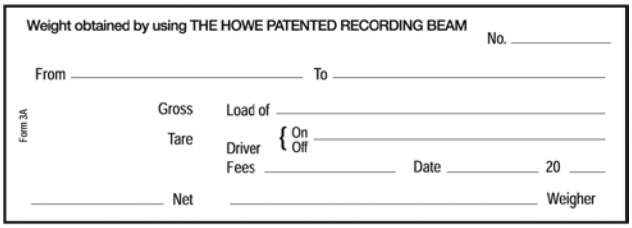
- Carbonless triplicate with 2 in (50.8 mm) tear-off flap
- Size (W x L): 4.75 in x 1.875 in (120.7 mm x 47.6 mm)
- Order quantity: 500 per package




## Standard Features

**Howe™ Scales - 20261**

- Carbon triplicate with 2 in (50.8 mm) tear-off flap
- Size (W x L): 5.5 in x 1.75 in (139.7 mm x 44.5 mm)
- Order quantity: 500 per package




## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **20260** | Fairbanks scales, 500/pack | $65.00 |
| **20261** | Howe scales, 500/pack | $65.00 |

Create Your Own Custom Ticket

## Standard Features

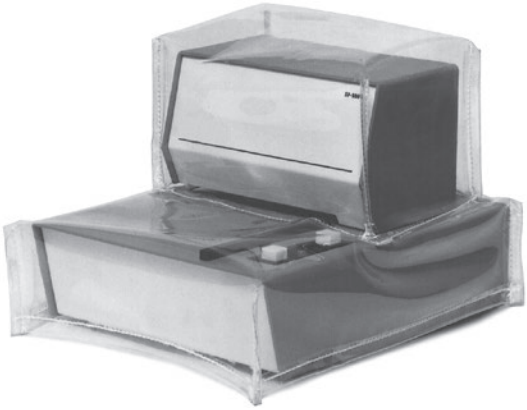
- Send us a copy of the existing custom format or drawing of a completely new one. Please specify number of carbon copies, dimensions, colors and text. Minimum order quantity may apply.





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# Printer Dust Covers



## Standard Features

- Tough, flexible transparent vinyl, constructed with heavy-duty stitching
- Loose fit allows for operation of switches or controls through the dust cover
- Available for most types of scale equipment

Protect your electronic scales, weight indicators and printers with a dust cover. Reduce costly repairs and downtime due to moisture penetrating through instrument enclosures during cleanup or operation.

## Part Number/Price

| Part # | Model | Price |
|---|---|---|
| **Rice Lake** | | |
| **21210** | SP2000/SP2200 | $75.00 |
| **EPSON®** | | |
| **29582** | TM290/295 | $55.00 |
| **35666** | TM-U200 TM-U220 | $60.00 |
| **111840** | TM-U590 | $65.00 |
| **Oki-Data®** | | |
| **21208** | Oki-Data 184 Turbo Printer | $65.00 |
| **21226** | Oki-Data 320/390 | $65.00 |

*Custom covers and specials available; consult factory.*



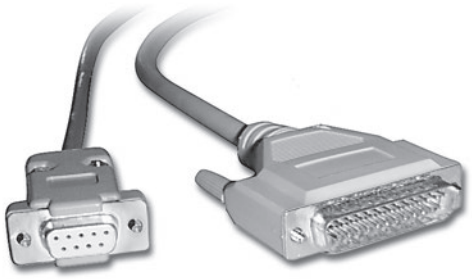
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*156809 (1 m)*

*156811 (3 m)*

*156815 (5 m)*





*156817 (1 m)*

*156818 (3 m)*

*156821 (5 m)*



*156806 (1 m)*

*156807 (3 m)*

*156808 (5 m)*

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Interface Cables for SP-2200, TM-U295, TM-U590 and Star® Printers** | | |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable | $65.00 |
| **15548** | 25-Pin D-sub male to 25-Pin D-sub male 20 mA serial interface cable (SP2200 only) | $65.00 |
| **15568** | 25-Pin D-sub male to 25-Pin D-sub male RS-232 serial interface cable | $65.00 |
| **Consult** | Custom 20 mA/RS-232 serial interface cable | $110.00 |
| **Interface Cables for I-Class** | | |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable | $65.00 |
| **Consult** | Custom RS-232 interface cable | $110.00 |
| **Interface Cables for Eltron® desktops, E-4203 and M-4206** | | |
| **41276** | DB9 male RS-232 cable to blunt end | $65.00 |
| **Straight Cable** | | |
| **50749** | DB9 female to DB9 female | $55.00 |
| **41279** | DB25 male to DB9 male | $65.00 |
| **70056** | DB9M to DB9F | $35.00 |
| **Null Modem Cable** | | |
| **66535** | DB9F to DB9 female, null modem | $45.00 |
| **64794** | DB9F to DB9M, null modem, 6ft | $65.00 |
| **USB Cable** | | |
| **79074** | USB-A to USB-B | $30.00 |
| **153603** | USB to 9-Pin male RS-232 adaptor | $91.00 |
| **156806** | USB 2.0 A to A, 1 m | $30.00 |
| **156807** | USB 2.0 A to A, 3 m | $45.00 |
| **156808** | USB 2.0 A to A, 5 m | $55.00 |
| **156809** | USB 2.0 to USB-B male type A | $50.00 |
| **156815** | USB 2.0 to USB-B male USB male type A to male type B micro, 3 m | $50.00 |
| **156811** | USB 2.0 to USB-B male USB maletype A to male type B micro, 5 m | $65.00 |
| **156817** | Ethernet CAT.5E RJ45 1 m | $30.00 |
| **156818** | Ethernet CAT.5E RJ45 3 m | $37.00 |
| **156821** | Ethernet CAT.5E RJ45 5 m | $45.00 |
| **Ethernet Cable/RJ45** | | |
| **72697** | RJ45 to RJ45, 7 ft (patch) | $35.00 |
| **78860** | RJ45 to RJ45, cross over 7 ft | $35.00 |
| **75594** | RJ45 to 9-Pin female | $65.00 |
| **Adaptors/Gender Changers** | | |
| **119064** | Female to female DB9 null modem adaptor | Consult |
| **165698** | Female to male DB9 gender changer | Consult |
| **130789** | Female to male DB9 null modem adaptor | Consult |
| **Blunt End Cables** | | |
| **22436** | DB9F | Consult |
| **130213** | DB25M | Consult |

*Blunt-end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus 355, IQ plus 390-DC, IQ plus 510, IQ plus 590-DC, IQ plus 710, IQ plus 800, and IQ plus 810, 520 and 920i®*

*Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5 ft (1.5 m).*



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# Static Brushes



| Part # | Staticmaster Part # | Description | Price |
|---|---|---|---|
| **76669** | 1C200 | Static brush 1 in | $131.00 |
| **76670** | 1C200R | Replacement cartridge | $85.00 |

# Static Brushes



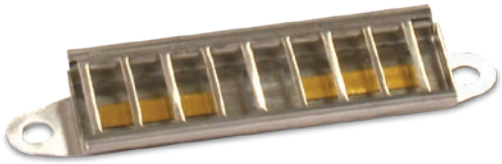

| Part # | Staticmaster Part # | Description | Price |
|---|---|---|---|
| **76671** | 3C500 | Static brush 3 in | $199.00 |
| **76672** | 3C500R | Replacement cartridge | $134.00 |

# Ionizing Strips



| Part # | Staticmaster Part # | Description | Price |
|---|---|---|---|
| **76677** | 1U400 | Ionizing unit 1 in x 1 in | $134.00 |
| **76678** | 1U200 | Ionizing unit 1 in x 1 in | $85.00 |
| **76676** | 2U500 | Ionizing unit 1 in x 3 in | $134.00 |

# Ionizing Strips Accessories



| Part # | Staticmaster Part # | Description | Price |
|---|---|---|---|
| **76679** | BF1 | Ionizer positioner | $69.00 |
| **76680** | BF2 | Ionizer positioner only - C bracket | $98.00 |



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# Desiccants

## Standard Features

- Packets
- Bagged desiccants to protect your enclosed electronic components from moisture and humidity
- Useful in junction boxes, indicators and all scale electronics



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **16038** | Mini Pax® 7 g | $1.15 |
| **16039** | NatraSorb® 20 g | $2.10 |
| **92240** | Silica get 1 unit pkg 3 g | $1.10 |

# Industrial Corrosion Inhibitor

## Standard Features

- Special chemical combination provides superior protection
- Protects 5 cubic feet/1.4 cubic meters of enclosure volume for approximately one year
- Dimensions: (W x H) 2.5 in x 1.5 in (63.5 mm x 38.1 mm)



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **16037** | Corrosion inhibitor | $30.00 |

# Crimper and Lead Seals

## Standard Features

**Crimper**

- 5.0 in (127.00 mm) seal press with two 0.5 in (12.7 mm) engraving dies
- Chrome finish
- Maximum number of characters that can be engraved on die is 9
- Compound leverage
- Quick delivery on custom dies

**Lead Seals**

- Heavy-duty seal with galvanized steel wire
- Length 16.0 in (406.4 mm)





## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **21111** | Crimper and two die blanks | $130.00 |
| **15318** | Crimper die blank (replacements) | $55.00 |
| **15317** | 100 seals/pkg | $45.00 |





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# Static Control Table Mat and Floor Mat



An absolute must for every workbench, this kit includes a three-layer, 2 ft x 4 ft table mat, 4 ft x 6 ft floor mat, ground cord and adjustable wrist strap. Designed specifically for energized circuit work, the static control table and floor mat provide superior protection against ESD.

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **34265** | Static control table mat and floor mat | $825.00 |

# Static Control Wrist Strap



The single most important personal accessory for protecting ESD-sensitive components and circuits, this wrist strap protects against charges from the body. The wrist strap consists of a comfortable elastic cuff or band and a detachable conductive cord for grounding the wrist band.

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **34263** | Static control wrist strap | $50.00 |



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# Static Shielding Bags



This static shield bag offers total ESD protection, whether you're transporting ESD-susceptible products across the room or across the country. The outer layer of the bag consists of an abrasion-resistant polyester, while the antistatic polyethylene inner layer retards triboelectric static charging from inside the bag.

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **16150** | Static shielding bags, 8 in x 10 in | $1.10 each |
| **16151** | Static shielding bags, 12 in x 18 in | $3.25 each |

# Static-Safe Service Kit

## Standard Features

- Eliminates static for safe board replacement
- Connects a field service technician and the static-safe work surface to the same ground point
- Harmlessly drains static charges from the body and from any conductive objects placed on the mat
- Folds into a compact unit for transport and storage



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **32818** | Static-safe service kit | $185.00 |





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# Rice Lake's Scale Technician Kits

Take Rice Lake's commitment to customer service into the field. Rice Lake's Scale Technician Kit has everything you need in one convenient backpack to troubleshoot and repair wherever you are.

## PN 166205
## Technician Tool Kit $995.00

- Rice Lake backpack
- Simulator with vernier
- Digital volt meter
- Communication Kit




## PN 166204
## Communication Kit $125.00

- Cinch sack
- Document Kit
- Six-in-one screwdriver
- Small RLWS screwdriver
- Test LEDs
- USB to serial converter
- DB9M to DB9F straight cable
- DB9F to blunt end cable
- DB25M to blunt end cable
- Female to female DB9 null modem adaptor
- Female to male DB9 gender changers
- Null modem adaptor
- TCP/IP patch cable
- TCP/IP crossover cable




## PN 166203
## Document Kit $10.00

- Pinouts for a DB9 and DB25 cable shows both male and female connectors
- Pinouts and color codes for a patch and crossover Ethernet cable
- Recommended maximum cabling distances of RS-232, 20mA, 485, and Ethernet TCP/IP
- Standard ASCII chart in both decimal and hexadecimal
- Links to website to download latest version of Revolution® and iRev® (on CD)
- Link to freeware terminal program download (PUTTY, Hercules, RealTerm. etc.)
- Load cell color wire chart
- Weigh Modules and Vessel Weighing Handbook PN 43918
- Load Cell Weigh Module Handbook PN 22054




## PN 118432
## Small Screwdriver $3.00






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**DIN RAIL TRANSIENT PROTECTOR & FUSE** ..... 619

**MANUAL PUSHBUTTONS/ PUSHBUTTON SWITCHES** ..... 619

ACCESSORIES

**ALUMINUM KEYPADS** ..... 619

INDUSTRIAL CONTROL PRODUCTS

**TRIPP-LITE USB TO SERIAL CONVERTERS** ..... 620
*Serial Adapters*

**AMPHENOL® RJF 544** ..... 621
*Harsh Environment Ethernet Connection System*

**ABLECABLE®** ..... 622
*RS 232/USB Serial Smart Cable Direct, Keyboard Input Direct*

**GO-BETWEEN** ..... 623
*Data Capture and Storage*


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# 120/120 Plus

Digital Weight Indicator




*120*

*120 Plus*

## Standard Features

**120**

- LED display, 0.8 in (20.3 mm) six-digit, seven-segment
- Configurable analog to digital measurement rate
- Power for four 350 ohm load cells
- Primary/secondary units configuration: lb, kg, ounces, grams
- Five-button operation
- Two independent communication ports: (1) full duplex, (1) unidirectional or active 20 mA current loop
- Standardized EDP command sets
- Programmable ticket format up to two 180-character printout
- Full front-panel digital calibration and configuration
- Tilt stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Time and date (volatile)

**120 Plus**

- LCD display, 0.8 in (20.3 mm) six-digit, seven-segment
- Internal rechargeable lithium battery and wall adapter
- Power save feature for 700 hours of battery life
- Ten stored tare values
- Display hold (based on three second average)
- Time and date
- Configurable with Revolution® software

## Approvals

*Available on 120 Plus*

## Specifications

**Power:**
**120/120 Plus:**
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
**120 Plus:** (estimated battery life)
60 hours with 1 x 350Ω, 40 hours with 4 x 350Ω
Charge time eight hours

**Excitation Voltage:**
5 VDC, 4 x 350Ω or 8 x 700Ω load cells

**Analog Signal Input Range:**
-0.6 mV/V - 3.0 mV/V

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum,
1.5 µV/grad recommended

**A/D Sample Rate:**
**120:** 3 to 30 Hz, software selectable
**120 Plus:** 30 Hz

**Resolution:**
Internal: 1 million internal graduations
Display: 10,000 displayed graduations

**System Linearity:**
Within 0.01% of full scale

**Circuit Protection:**
RFI, EMI, ESD protected

**Load Cell Connection:**
Cord grip entry
Detachable plug (optional)

**Serial Output:**
EDP port: Full duplex RS-232
Printer port: Output-only RS-232 or active 20 mA current loop
Both ports: 9600, 4800, 2400, 1200, 600, 300bps; Seven or eight data bits; even, odd or no parity

**Status Annunciators:**
**120/120 Plus:** Center of zero, stand still, gross, net, lb, kg, oz, g
**120 Plus:** Battery, setpoint 1 and 2, Hold

**Display:**
**120:** 0.8 in (20 mm), six-digit red light emitting diode(LED) display, seven-segment digits
**120 Plus:** 0.8 in (20 mm) six-digit LCD with back-light, seven-segment digits

**Keys/Buttons:**
**120:** Five-key flat membrane panel, tactile feel
**120 Plus:** Zero, tare, preset tare, hold, gross/net, units, numeric 0-9, clear, enter/print

**(Optional) Digital I/O:**
**120 Plus:** Requires option card
24 volt source
Three digital inputs
Two digital outputs

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: 14°F to 122°F (-10°C to 50°C)

**Rating/Material:**
Enclosure: heavy gauge ABS

**Weight:**
2.6 lb (1.2 kg)

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP CC 03-059, Class III/IIIL 10,000d
Measurement Canada AM-5517, Class III/IIIHD 10,000d
EU Test Certificate TC7028 (120) Class III, 10,000d
EU Test Certificate TC7626 (120 Plus) Class III, 10,000d
CE marked



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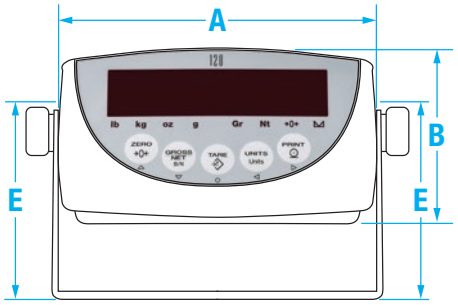
## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **120** | | | |
| **131923**** | Desktop 115 VAC/230 VAC | 3 lb | $335.00 |
| **120 Plus** | | | |
| **103632**** | Desktop 115/230 VAC | 3 lb | $460.00 |
| **107619**** | Desktop 115/230 VAC with digital I/O option | 3 lb | $520.00 |

***Both plugs included with power adapter*


*US Plug*

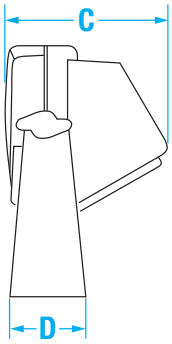

*Euro Plug*




## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **93205** | Load cell connector with 6 m length pigtail (requires 103507) | $46.00 |
| **82505** | Six-pin socket external load cell connector (requires 103507) | $11.00 |
| **103507** | External load cell plug replaces cord grip (requires 82505 or cable 93205) | $32.00 |
| **107620** | Digital I/O card for 120 Plus | $67.00 |
| **105670** | 15-Pin connector for 120 Plus | $11.00 |
| **106705** | 15-Pin Interface cable for 120 Plus, 2 m length | $32.00 |
| **76699** | Additional operating manual for 120 | $31.00 |
| **105914** | Additional operating manual for 120 Plus | $26.00 |
| **77925*** | Revolution® scale software | $35.00 |
| **Primary Component Parts for 120** | | |
| **131924** | Board assembly for use with internal LC connector | $250.00 |
| **78610** | Overlay membrane switch | $55.00 |
| **131925**** | Power supply, 115 VAC/230 VAC | $40.00 |
| **64794** | Cable, null modem DB9F to DB9M | $65.00 |
| **Primary Component Parts for 120 Plus** | | |
| **103634** | CPU/Display board assembly | $355.00 |
| **103635** | Overlay membrane switch | $55.00 |
| **103636**** | Power supply, 115 VAC/230 VAC | $40.00 |
| **103637** | Rechargeable battery | $80.00 |

**Revolution can be downloaded for free at www.ricelake.com*
*To have your option factory installed, please specify when placing your order.*




| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 7.32 in (186 mm) | C | 3.74 in (95 mm) | E | 4.76 in (121 mm) |
| B | 6.06 in (154 mm) | D | 1.65 in (42 mm) | | |






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# IQ Plus® 210

Digital Weight Indicator



## Standard Features

- Piezo switch technology with stainless steel buttons (zero and units)
- LED display, 0.8 in, 6-digit, 7-segment
- NEMA Type 4X/IP66 stainless steel enclosure
- Status annunciators: lb, kg, oz, g, negative, motion, center of zero
- Displays units in decimals lb, kg, oz, lb/ oz and grams
- 1 full duplex RS-232 port
- 2 digital inputs for remote zero, print and units
- PreVent™ breather vent
- Configurable with Revolution® software

### Approvals

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **65137** | IQ Plus 210, 115 VAC | 10 lb | $595.00 |
| **65138** | IQ Plus 210, 230 VAC | 10 lb | $565.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **64640** | Additional operating manual | $31.00 |

*To have your option factory installed, please specify when placing your order.*

| Dimensions | | | |
|---|---|---|---|
| A | 9.50 in (241 mm) | E | 6.00 in (152 mm) |
| B | 10.03 in (254 mm) | F | 8.58 in (217 mm) |
| C | 11.67 in (296 mm) | G | 3.75 in (95 mm) |
| D | 2.69 in (68 mm) | | |

## Specifications

**Power:**
Line voltages: 115 VAC or 230 VAC
Frequency: 50-60 Hz

**Excitation Voltage:**
10 VDC 4 x 350Ω load cells

**Analog Signal Input Range:**
0.6 mV/V – 4.5 mV/V

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum,
1.5 µV/grad recommended

**A/D Sample Rate:**
15 Hz

**Resolution:**
Display: 10,000d maximum

**Digital Inputs:**
Two inputs, TTL or switch closure, active-low

**Communication Ports:**
Full duplex RS-232, 9600, 4800, 2400, 1200bps;
Seven or eight data bits, even, off, or no parity

**Display:**
Six-digit light emitting diode (LED) display
Seven-segment, 0.8 in (20 mm) digits

**Temperature Range:**
Operating: 14°F to 104°F (-10°C to 40°C)
Storage: 14°F to 122°F (-10°C to 50°C)

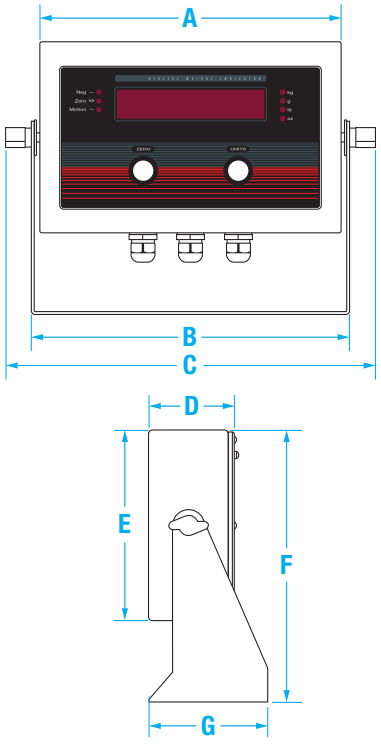
**Enclosure Dimensions:**
9.5 in x 6.0 in x 2.75 in (241 mm x 152 mm x 70 mm)

**Rating/Material:**
NEMA Type 4X/IP66, stainless steel

**Weight:**
10 lb (4.5 kg)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 00-045, Class III/IIL 10,000d
UL/cUL Listed






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## Specifications

**Power - AC:**
Line voltages: 115-230 VAC
Frequency: 50-60 Hz

**Power Consumption:**
1.5 A at 115 VAC (8 W)
0.75 A at 230 VAC (8 W)

**Excitation Voltage:**
+5 VDC 8 x 350Ω or 16 x 700Ω load cells

**Analog Signal Input Range:**
-0.5 mV/V - 4.5 mV/V

**Analog Signal Sensitivity:**
0.3 uV/graduation minimum, 1.5 uV/graduation recommended

**A/D Sample Rate:**
7.5 to 960 Hz software selectable

**Resolution:**
Display: 100,000 graduations maximum

**System Linearity:**
± 0.01% full scale

**Digital I/O:**
Four channels on CPU board

**Circuit Protection:**
RFI, EMI, ESD protection

**Status Annunciators:**
Designators for percent, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

**Display:**
Large 0.8 in 14-segment, six-digit high-intensity red LED display

**Keys/Buttons:**
**CW-90:** Membrane keypad, 23 keys with international symbols
**CW-90X:** Piezo keypad, 11 keys with international symbols

**Temperature Range**
Certified: 14ºF to 104ºF (-10ºC to 40ºC)

**Rating/Material:**
**CW-90:** IP66, stainless steel
**CW-90X:** IP69K, stainless steel

**Warranty:**
**CW-90:** Two-year limited warranty
**CW-90X:** Three-year limited warranty

**Approvals:**
**CW-90:** NTEP CC 08-092,
**CW-90X:** NTEP CC 08-092, Class III/IIIL 10,000d
Measurement Canada AM-5710
OIML R76/2006-GBI-10.02
EU Test Certificate GB-1385
UL/cUL Listed
CE marked




*CW-90*

*CW-90X*

## CW-90 Standard Features

- PreVent™ breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- LED display, 0.8 in, six-digit, 14-segment
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber optic
- Four configurable digital I/O
- Reflash memory to upgrade firmware
- Auto print capability
- Membrane keypad consisting of zero, units, print, tare, over, under, ID, target, 0-9, clear, decimal, enter, menu, power
- 304 stainless steel, IP66 rated
- Battery backed time and date
- Accumulator

### Approvals

## CW-90X Standard Features

- PreVent™ breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- LED display, 0.8 in, six-digit, 14-segment
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber optic
- Four configurable digital I/O
- Reflash memory to upgrade firmware
- Auto print capability
- Piezo keypad consisting of zero, units, print, tare, over, under, ID, target, enter, menu, power
- 304 stainless steel, IP69 K rated
- Battery backed time and date
- Accumulator





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# CW-90 and CW-90X

Checkweigh Indicator

## CW-90 Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **105970**† | CW-90, 115 VAC | 7 lb | $775.00 |
| **105971**†† | CW-90, 230 VAC, CE marked/OIML approved | 7 lb | $775.00 |
| **118888**† | CW-90, 230 VAC | 7 lb | $775.00 |
| **171247**††† | CW-90, 230 VAC | 7 lb | $775.00 |

## CW-90X Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **105972**† | CW-90X, 115 VAC | 7 lb | $820.00 |
| **105973**†† | CW-90X, 230 VAC, CE marked/OIML approved | 7 lb | $820.00 |
| **118889**† | CW-90X, 230 VAC | 7 lb | $820.00 |
| **171248**††† | CW-90X, 230 VAC | 7 lb | $820.00 |



*† US plug (NA) - Type B*



*†† Euro Plug - Type E*

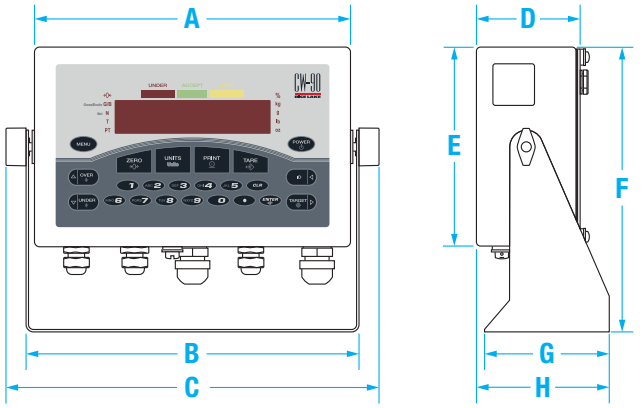


*††† IEC Type I plug*

## CW-90 and CW90X Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **200578** | Ethernet TCP/IP, 10 ft cable included | $400.00 |
| **108671** | Wireless LAN card Wi-Fi 802.11 A/B | $570.00 |
| **200577** | USB Port (PC connection only) 10 ft cable included | $175.00 |
| **95357** | USB cable, Type A to mini-B, 1 m | $10.00 |
| **171968** | Firmware download cable | $35.00 |
| **96736** | Fiber optic board | $250.00 |
| **78026** | Fiber optic, duplex cable 100 ft | $140.00 |
| **80892** | Fiber optic cutter | $9.00 |
| **117358** | WeighVault™ (requires part number 77142 or 108671) | $250.00 |

*To have your option factory installed, please specify when placing your order.*




| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 9.5 in (241 mm) | D | 3.12 in (79 mm) | G | 3.75 in (95 mm) |
| B | 10.02 in (255 mm) | E | 6.00 in (152 mm) | H | 4.00 in (102 mm) |
| C | 11.24 in (285 mm) | F | 8.57 in (218 mm) | | |



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# LaserLT-60 and LaserLT-100

Large Display Digital Weight Indicator

## Specifications

**Power:**
AC voltages: 100-240 VAC
DC voltages: 12 -24 VDC

**Excitation Voltage:**
5VDC, 120 mA, 16 x 350 Ω

**Analog Signal Input Range:**
± 39 mV

**Analog Signal Sensitivity:**
0.03 µV/graduation minimum
0.3 µV/graduation recommended

**A/D Sample Rate:**
Four channel A/D 24-bit sigma-delta conversion, eup to 200 conv. /sec. auto select

**Resolution:**
Internal resolution: 1.5 million counts
Weight display resolution: 800,000

**Display:**
6-digit, 7-segment discrete oval red LED lamps, single width
2.4 in (60 mm) or 4 in (100 mm) digit
Decimal/comma indication in any position
Annunciators for NT, Stability, COZ

**Maximum Viewing Distance:**
LaserLT-60: 2.4 in digit 75 ft (25 m)
LaserLT-100: 4 in digit 150 ft (50 m)

**Serial Interface:**
(1) RS-232, (1) RS-485

**Input Data Format:**
Baud Rate: 1200 to 115.2 K software selectable.
Even parity 7 data bits, or no parity 8 data bits

**Update:**
Software selectable 1-20/sec

**Digital Inputs/Outputs:**
Two inputs: 12/24 VDC
Two outputs:150 mA 48 VAC/ 150 mA 60 VDC

**Rating/Material:**
304 stainless steel, IP68

**Keyboard:**
Five key, Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

**Weight:**
10 lb (4.5 kg)

**Operating Temperature:**
-40° F to 120° F (-40° C to 49° C)

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP CC 20-046
Measurement Canada (pending)
CE marked




*LaserLT-60*




*LaserLT-100*

## Standard Features

- Available as a 2.4 in (60 mm) or 4 in (100 mm) display
- Six-digit display with high-intensity LEDs
- Integrated five-key waterproof keypad
- Includes removable back wall mount bracket
- Power from 12 to 24VDC, comes with 110-240VAC internal power supply
- Up to four independent scales or four load cell inputs
- Quick menu for real and theoretical calibration
- Up to three calibration linearization points
- Semi-automatic and presettable tare
- Two digital outputs for 13 Setpoints types with timers to enable on and delay period
- Two digital input for operating keys remotely

## Approvals

*pending*

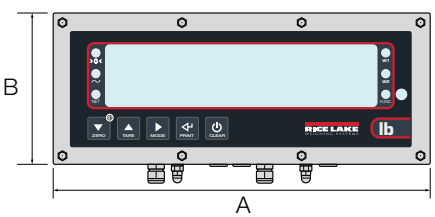
## Part Number/Price

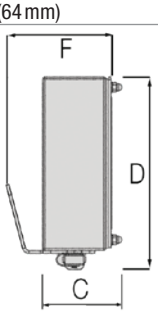
| Part # | Description | Price |
|---|---|---|
| **197453** | LaserLT-60, indicator with weighing functionality 2.4 in (60 mm) LED | $1,150.00 |
| **197454** | LaserLT-100, indicator with weighing functionality 4.0 in (100 mm) LED | $1,450.00 |

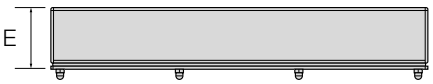
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **185256** | Mount bracket, 2 tilting side brackets for LaserLT-100 | $50.00 |
| **185258** | Visor for LaserLT-100 | $125.00 |

| Dimensions | | | |
|---|---|---|---|
| **LaserLT-60** | | | |
| A | 16.14 in (410 mm) | D | 7.28 in (185 mm) |
| B | 6.50 in (165 mm) | E | 2.64 in (67 mm) |
| C | 3.03 in (77 mm) | F | 4.84 in (123 mm) |
| **LaserLT-100** | | | |
| A | 16.93 in (430 mm) | D | 7.63 in (194 mm) |
| B | 7.28 in (185 mm) | E | 2.52 in (64 mm) |
| C | 2.52 in (64 mm) | F | 3.98 in (101 mm) |




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# 480/480 Plus Legend Series

Digital Weight Indicator




## Standard Features

- LED display, 0.8 in (20 mm), six-digit, seven-segment
- Time and date, battery backed
- Local/remote operation
- Numeric keypad (480/482 Plus)
- Keyed entries for setpoint values (480/482 Plus)
- Two independent serial ports, RS-232 and 20 mA
- NEMA Type 4X/IP66 stainless steel washdown enclosure
- Programmable ticket formats for gross, net, accumulator and setpoints
- Five continuous stream formats
- Adapter filter or rolling average filter
- Operator functions through menu for audit trail, preset tare, unit ID, accumulator, time and date, setpoints, communications and print formats
- Eight setpoints, sequenced batch engine
- Configurable with Revolution® software

## Approvals

## Specifications

**Power:**
Line voltages: 100-240 VAC
Frequency: 50-60 Hz
DC voltages: n/a
Power consumption: 8 W

**Excitation Voltage:**
5 VDC, 8 x 350Ω or 16 x 700Ω load cells

**Analog Signal Input Range:**
±7mV/V

**Analog Signal Sensitivity:**
0.1 µV/graduation minimum,
0.5 µV/graduation recommended

**A/D Sample Rate:**
5, 10, 20, 40 Hz, software selectable

**Resolution:**
Internal: 523,000 counts
Display: 100,000 graduations

**System Linearity:**
Within 0.01% of full scale

**Digital I/O:**
Optional 2 or 4 inputs
4 or 8 dry-contact relays

**Communication Ports:**
Com 1: RS-232 full duplex
Com 2: RS-232 full duplex or 20 mA simplex, continuous
Both ports 1200, 2400, 4800, 9600, 19200, 38400 baud seven or eight data bits, even, odd or no parity

**(Optional) Analog Output:**
16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA / 4-20 mA

**(Optional) Relay Board:**
Two opto-isolated, 5 to 24 VDC, active high inputs. Two inputs (requires relay output option). Primary keys, pseudo functions, batching functions.
(4) 30 VDC, 2 amp dry-contract relays

**(Optional) Ethernet and USB Board:**
USB five-pin header for PC, printer or flash drive. Ethernet TCP/IP, RJ45 jack, server and client ports.

**Display:**
480/480 Plus:LED display
0.8 in (20 mm, six-digit, seven-segment
482/482 Plus: LCD backlit display, Transmissive/Transflective
0.8 in (20 mm, six-digit, seven-segment

**Status Annunciators:**
Gross, net, center of zero, standstill, lb, kg, tare, preset tare

**Keys/Buttons:**
Flat membrane panel, embossed keys, tactile feel

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: 14°F to 122°F (-10°C to 50°C)

**Weight:**
6.4 lb (2.9 kg)

**Rating/Material:**
Enclosure: NEMA Type 4X/IP66, heavy-gauge stainless steel

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

**Approvals:**
NTEP CC 12-123, Class III/IIIL, 10 000d
Measurement Canada AM-5892, Class III/IIIHD, 10,000d
OIML R76/2006-NL1-12.48
EU Test Certificate TC8322
CE Marked
UL/cUL Listed



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## Part Number/Price: 480

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **480 115 VAC †** | | | |
| **126564** † | 480 LED | 8 lb | $650.00 |
| **130338** † | 480 LED with analog output | 8 lb | $988.00 |
| **130340** † | 480 LED with relay output | 8 lb | $832.00 |
| **164594** † | 480 LED with USB/Ethernet | 8 lb | $988.00 |
| **480 90-264 VAC ††** | | | |
| **126565** †† | 480 LED | 8 lb | $650.00 |
| **130339** †† | 480 LED with analog output | 8 lb | $988.00 |
| **130341** †† | 480 LED with relay output | 8 lb | $832.00 |
| **164595** †† | 480 LED with USB/Ethernet | 8 lb | $988.00 |

## Part Number/Price: 480 Plus

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **480 Plus 115 VAC †** | | | |
| **164588** † | 480 Plus LED | 8 lb | $650.00 |
| **164589** † | 480 Plus LED with analog output | 8 lb | $988.00 |
| **164590** † | 480 Plus LED with relay output | 8 lb | $832.00 |
| **164596** † | 480 Plus LED with USB/Ethernet | 8 lB | $988.00 |
| **480 Plus 90-264 VAC ††** | | | |
| **164591** †† | 480 Plus LED | 8 lb | $650.00 |
| **164592** †† | 480 Plus LED with analog output | 8 lb | $988.00 |
| **164593** †† | 480 Plus LED with relay output | 8 lb | $832.00 |
| **164597** †† | 480 Plus LED with USB/Ethernet | 8 lb | $988.00 |



*† US plug (NA) - Type B*

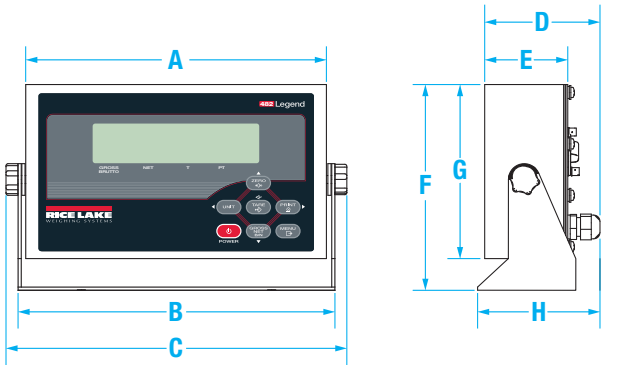


*†† Euro Plug - Type E*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **131340** | Mounting bracket for option boards | $26.00 |
| **131341** | Analog output, 0-10 VDC, 4-20 mA (requires 131340) | $338.00 |
| **131342** | Relay board, two digital inputs, four dry contact outputs (requires 131340) | $182.00 |
| **164600** | USB and Ethernet TCP/IP (requires 131340) | $338.00 |
| **164604** | Ethernet cable with cord grip, 6 ft | $52.00 |
| **164602** | Drive USB cable with cord grip, type A female, 6 in | $52.00 |
| **167707** | Host PC USB cable with cord grip, type A male, 6 ft | $52.00 |
| **167708** | Printer USB cable with cord grip, type B male, 6 ft | $52.00 |
| **165379** | Flash update cable | $65.00 |
| **164650** | Battery kit, rechargeable lithium ion | $208.00 |
| **151100** | A/D sealing kit, used with audit trail tracking | $32.00 |
| **151099** | Panel mount bezel (not NEMA Type rated) | $156.00 |
| **83564** | Clear protective overlay (package of five) | $68.00 |
| **77925*** | Revolution® scale software, CD | $35.00 |
| **119201** | Installation manual | $25.00 |
| **Primary Replacement Components** | | |
| **131345** | Overlay, 480 six-key, red window | $58.00 |
| **159612** | Overlay, 480 Plus with numeric keys, red window | $58.00 |
| **131346** | Display board, LED | $135.00 |
| **131316** | Power supply, 85-265 VAC | $54.00 |
| **131318** | CPU board | $244.00 |
| **131319** | A/D board | $187.00 |

** Revolution can be downloaded for free at www.ricelake.com*
*To have your option factory installed, please specify when placing your order.*




| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 9.50 in (241 mm) | D | 3.65 in (92 mm) | G | 6.00 in (152 mm) |
| B | 10.00 in (254 mm) | E | 2.75 in (70 mm) | H | 3.75 in (95 mm) |
| C | 11.00 in (279 mm) | F | 7.00 in (178 mm) | | |





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# 482/482 Plus Legend Series

Digital Weight Indicator




*482*

*482 Plus*

## Standard Features

- LED display, 0.8 in (20 mm), six-digit, seven-segment
- Time and date, battery backed
- Local/remote operation
- Numeric keypad (480/482 Plus)
- Keyed entries for setpoint values (480/482 Plus)
- Two independent serial ports, RS-232 and 20 mA
- NEMA Type 4X/IP66 stainless steel washdown enclosure
- Programmable ticket formats for gross, net, accumulator and setpoints
- Five continuous stream formats
- Adapter filter or rolling average filter
- Operator functions through menu for audit trail, preset tare, unit ID, accumulator, time and date, setpoints, communications and print formats
- Eight setpoints, sequenced batch engine
- Configurable with Revolution® software

## Approvals

## Specifications

**Power:**
Line voltages: 100-240 VAC
Frequency: 50-60 Hz
DC voltages: n/a
Power consumption: 8 W

**Excitation Voltage:**
5 VDC, 8 x 350Ω or 16 x 700Ω load cells

**Analog Signal Input Range:**
±7mV/V

**Analog Signal Sensitivity:**
0.1 µV/graduation minimum,
0. 5 µV/graduation recommended

**A/D Sample Rate:**
5, 10, 20, 40 Hz, software selectable

**Resolution:**
Internal: 523,000 counts
Display: 100,000 graduations

**System Linearity:**
Within 0.01% of full scale

**Digital I/O:**
Optional 2 or 4 inputs
4 or 8 dry-contact relays

**Communication Ports:**
Com 1: RS-232 full duplex
Com 2: RS-232 full duplex or 20 mA simplex, continuous
Both ports 1200, 2400, 4800, 9600, 19200, 38400 baud seven or eight data bits, even, odd or no parity

**(Optional) Analog Output:**
16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA / 4-20 mA

**(Optional) Relay Board:**
Two opto-isolated, 5 to 24 VDC, active high inputs. Two inputs (requires relay output option). Primary keys, pseudo functions, batching functions.
(4) 30 VDC, 2 amp dry-contract relays

**(Optional) Ethernet and USB Board:**
USB five-pin header for PC, printer or flash drive. Ethernet TCP/IP, RJ45 jack, server and client ports.

**Display:**
480/480 Plus:LED display
0.8 in (20 mm, six-digit, seven-segment
482/482 Plus: LCD backlit display, Transmissive/ Transflective
0.8 in (20 mm, six-digit, seven-segment

**Status Annunciators:**
Gross, net, center of zero, standstill, lb, kg, tare, preset tare

**Keys/Buttons:**
Flat membrane panel, embossed keys, tactile feel

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: 14°F to 122°F (-10°C to 50°C)

**Weight:**
6.4 lb (2.9 kg)

**Rating/Material:**
Enclosure: NEMA Type 4X/IP66, heavy-gauge stainless steel

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
EN 50082 Part 2 IEC
EN 61000-4-2, 3, 4, 5, 6, 8, and 11

**Approvals:**
NTEP CC 12-123, Class III/IIIL, 10 000d
Measurement Canada AM-5892, Class III/IIIHD, 10,000d
OIML R76/2006-NL1-12.48
EU Test Certificate TC8322
CE Marked
UL/cUL Listed



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## Part Number/Price: 482

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **482 115 VAC †** | | | |
| **164581** † | 482 LCD | 8 lb | $754.00 |
| **164582** † | 482 LCD with internal battery | 8 lb | $962.00 |
| **482 90-264 VAC ††** | | | |
| **164672** †† | 482 LCD | 8 lb | $754.00 |
| **164583** †† | 482 LCD with internal battery | 8 lb | $962.00 |

## Part Number/Price: 482 Plus

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **482 Plus 115 VAC †** | | | |
| **164584** † | 482 Plus LCD | 8 lb | $754.00 |
| **164585** † | 482 Plus LCD with internal battery | 8 lb | $962.00 |
| **482 Plus 90-264 VAC ††** | | | |
| **164673** †† | 482 Plus LCD | 8 lb | $754.00 |
| **164586** †† | 482 Plus LCD with internal battery | 8 lb | $962.00 |



*† US plug (NA) - Type B*

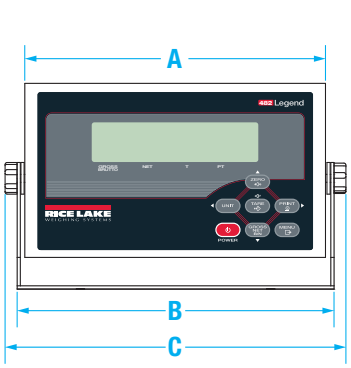


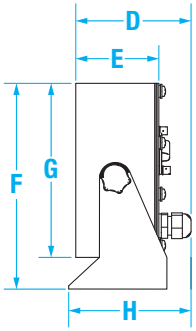
*†† Euro Plug - Type E*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **131340** | Mounting bracket for option boards | $26.00 |
| **131341** | Analog output, 0-10 VDC, 4-20 mA (requires 131340) | $338.00 |
| **131342** | Relay board, two digital inputs, four dry contact outputs (requires 131340) | $182.00 |
| **164600** | USB and Ethernet TCP/IP (requires 131340) | $338.00 |
| **164604** | Ethernet cable with cord grip, 6 ft | $52.00 |
| **164602** | USB cable with cord grip, type A female, 6 in | $52.00 |
| **167707** | USB cable with cord grip, type A male, 6 ft | $52.00 |
| **167708** | USB cable with cord grip, type B male, 6 ft | $52.00 |
| **165379** | Flash update cable | $65.00 |
| **164650** | Battery kit, rechargeable lithium ion | $208.00 |
| **151100** | A/D sealing kit, used with audit trail tracking | $32.00 |
| **151099** | Panel mount bezel (not NEMA Type rated) | $156.00 |
| **83564** | Clear protective overlay (package of five) | $68.00 |
| **77925*** | Revolution® scale software, CD | $35.00 |
| **165124** | Installation manual | $25.00 |
| **Primary Replacement Components** | | |
| **161048** | Overlay, 482 6-key, green window | $57.00 |
| **161049** | Overlay, 482 Plus with numeric keys, green window | $57.00 |
| **153776** | Display board, LCD | $130.00 |
| **131316** | Power supply, 85-265 VAC | $54.00 |
| **131318** | CPU board | $244.00 |
| **131319** | A/D board | $187.00 |

** Revolution can be downloaded for free at www.ricelake.com*
*To have your option factory installed, please specify when placing your order.*




| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 9.50 in (241 mm) | D | 3.65 in (92 mm) | G | 6.00 in (152 mm) |
| B | 10.00 in (254 mm) | E | 2.75 in (70 mm) | H | 3.75 in (95 mm) |
| C | 11.00 in (279 mm) | F | 7.00 in (178 mm) | | |






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# 680 Synergy Series

Digital Weight Indicator




## Standard Features

- Bright seven-digit, seven-segment LED display
- Battery backed time and date
- Full numeric keypad
- Three serial ports: two RS-232, one full duplex RS-485
- Numeric keyed entry allowed for tare and setpoint entry
- Formattable tickets
- Ethernet TCP/IP
- USB device
- Stainless steel IP69K enclosure
- Four onboard configurable digital I/O points, TTL logic

## Options

- Analog output: 16-bit resolution, 0-10VDC, 0-20mA, 4-20mA
- RJ45 Ethernet connector

*Note: IP Rating is IP66 with RJ45 option. Rating is valid only when the cover is in place, not in-use.*

## Approvals

## Specifications

**Power:**
Line voltages: 100-240 VAC
Frequency: 50-60 Hz

**Power Consumption:**
~2W (AC) with one 350 ohm load cell, 15W max

**Excitation Voltage:**
10 VDC (± 5 VDC), 8 x 350Ω or 16 x 700Ω load cells

**Analog Signal Input Range:**
-0.5 mV/V to +7 mV/V

**Analog Signal Sensitivity:**
1 µV/graduation recommended

**A/D Sample Rate:**
6.25-120 Hz, software selectable

**Resolution:**
Internal: 8,000,000 counts
Display: 1,000,000

**System Linearity:**
Within 0.01% full scale

**Digital I/O:**
Four configurable I/O - 5V logic

**Communication Ports:**
Two RS-232 (three-wire)
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

**Status Annunciators:**
Eight LED annunciators

**Display:**
Seven 0.8 in tall, seven-segment digits

**Keys/Buttons:**
Flat membrane panel, tactile feel (18 buttons plus ON/OFF)

**Temperature Range:**
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

**Dimensions (W X H X D):**
11.58 in x 8.57 in x 4.05 in
(30 cm x 22 cm x 10 cm)

**Weight:**
6.25 lb (3 kg)

**Rating/Material:**
Rating: IP69K
IP66 with RJ45
Material: AISI 304 Stainless Steel

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
10 V/m

**Approvals:**
NTEP CC 19-021, Class III/IIIL, 10,000d
Measurement Canada AM-6121, Class III/IIIHD, 10,000d
OIML
UL/cUL Listed
CE Marked



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **115-230 VAC** | | | |
| **193152** † | 680 Plus indicator, LED display, US power cord | 7 lb | $795.00 |
| **193153** †† | 680 Plus indicator, LED display, EU power cord | 7 lb | $795.00 |
| **196326** ††† | 680 Plus indicator, LED display, UK power cord | 7 lb | $795.00 |
| **196327** †††† | 680 Plus indicator, LED display, AUS power cord | 7 lb | $795.00 |
| **9-36 VDC** | | | |
| **193154** | 680 Plus indicator, LED display, | 7 lb | $895.00 |
| **With Analog Output Card** | | | |
| **195176** † | 680 Plus indicator, LED display, 115-230 VAC with analog output card, US power cord | 7 lb | $1,095.00 |
| **195177** †† | 680 Plus indicator, LED display, 115-230 VAC with analog output card, EU power cord | 7 lb | $1,095.00 |
| **196539** ††† | 680 Plus indicator, LED display, 115-230 VAC with analog output card, UK power cord | 7 lb | $1,095.00 |
| **196538** †††† | 680 Plus indicator, LED display, 115-230 VAC with analog output card, AUS power cord | 7 lb | $1,095.00 |
| **With External RJ45 Connector** | | | |
| **200183** † | 680 Plus Indicator, LED display, 115-230VAC with RJ45, US power cord | 7 lb | $945.00 |
| **200184** †† | 680 Plus Indicator, LED display, 115-230VAC with RJ45, EU power cord | 7 lb | $945.00 |
| **200185** ††† | 680 Plus Indicator, LED display, 115-230VAC with RJ45, UK power cord | 7 lb | $945.00 |
| **200186** †††† | 680 Plus Indicator, LED display, 115-230VAC with RJ45, AUS power cord | 7 lb | $945.00 |

*IP Rating is IP66 with RJ45 option*



*† US plug (NA) - Type B*



*†† Euro Plug - Type E*



*††† BS1363 (UK) - Type G*

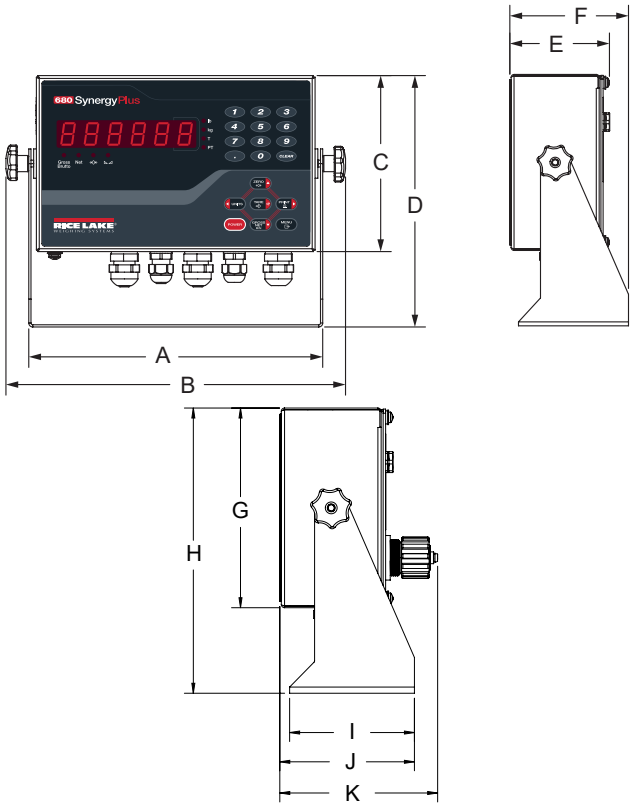


*†††† AS 3112 (Australian) - Type I*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **195084** | Analog output option card | $325.00 |
| **151099** | Panel mount option, gasketed non-NEMA seal | $156.00 |

*To have your option factory installed, please specify when placing your order.*




*With External RJ45 Connector*

| Dimensions | | | |
|---|---|---|---|
| A | 10.02 in (254.5 mm) | G | 6.00 in (152.4 mm) |
| B | 11.58 in (294.1 mm) | H | 8.57 in (217.6 mm) |
| C | 6.00 in (152.4 mm) | I | 3.80 in (96.5 mm) |
| D | 8.57 in (217.6 mm) | J | 4.05 in (102.87 mm) |
| E | 3.40 in (86.3 mm) | K | 4.74 in (120.4 mm) |
| F | 4.05 in (102.87 mm) | | |





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# NEW
# 680HE Synergy Series
Hostile Environment Digital Weight Indicator




## Standard Features

- Bright six 2.5in tall, seven-segment two color LED display
- Battery backed time and date
- Full numeric keypad
- Three serial ports: two RS-232, one full duplex RS-485
- Numeric keyed entry allowed for tare and setpoint entry
- Formattable tickets
- Ethernet TCP/IP
- USB device
- IP66 FRP enclosure
- Four onboard configurable digital I/O points, TTL logic

## Options

- Ethernet bulkhead connector
- Analog output: 16-bit resolution, 0-10VDC, 0-20mA, 4-20mA

## Approvals

## Specifications

**Power:**
Line voltages: 100-240 VAC, 9-36V DC
Frequency: 50-60 Hz

**Power Consumption:**
12W (AC) with one 350 ohm load cell, 30W max

**Excitation Voltage:**
10 VDC (± 5 VDC)

**Analog Signal Input Range:**
-0.5 mV/V to +7 mV/V

**Analog Signal Sensitivity:**
1 µV/graduation recommended

**A/D Sample Rate:**
6.25-120 Hz, software selectable

**Resolution:**
Internal: 8,000,000 counts
Display: 100,000

**System Linearity:**
Within 0.01% full scale

**Digital I/O:**
Four configurable I/O - 5V logic

**Communication Ports:**
Two RS-232 (three-wire)
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

**Status Annunciators:**
Eight LED annunciators

**Display:**
Six 2.5 in tall, seven-segment digits

**Keys/Buttons:**
Flat membrane panel, tactile feel
(18 buttons)

**Temperature Range:**
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

**EMC Immunity:**
10 V/m

**Weight:**
7.9 lb (3.5 kg)

**Rating/Material:**
Rating: IP66
Material: FRP

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 19-021, Class III/IIIL, 10,000d
Measurement Canada
UL/cUL Listed
CE Marked

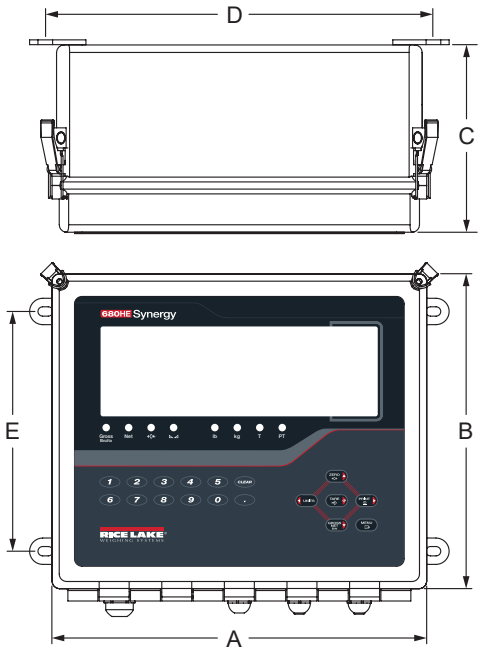


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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **197177** | Indicator, Wall 680HE Plus Full Numeric Keypad, 115-230VAC FRP Enclosure | 6.25 lb (3 kg) | $1,675.00 |
| **199574** | Indicator, Wall 680HE Plus Full Numeric Keypad, 115-230VAC, FRP Enclosure with external RJ-45 | 6.25 lb (3 kg) | $1,815.00 |

*† US plug (NA) - Type B*




| Dimensions | | | |
|---|---|---|---|
| A | 12.50 in (317.5 mm) | D | 13.00 in (330.2 mm) |
| B | 10.50 in (266.7 mm) | E | 8.00 in (203.2 mm) |
| C | 6.30 in (160.0 mm) | | |





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# 720i™ Series

Programmable Weight Indicator/Controller




*Universal*

## Standard Features

- LCD display size: panel mount (3.8 in x 1.2 in), universal (5.3 in x 1.5 in)
- Four softkeys
- Truck in/out, 1,000-ID memory (PCE software version)
- 32 setpoints, 26 configurable types (batch software version)
- Process control engine ProAction PCE define conditions and actions
- Data storage onboard, ProAction DBE user-defined
- Eight digital I/O (expandable)
- One option slot for pluggable options
- 20 auxiliary print formats
- Time & date
- Audit trail tracking and alibi storage
- Peak hold
- Rate of change
- Accumulator
- Multi-range/interval
- Local/remote
- Two full duplex serial ports
- One PS/2 keyboard port
- Header for fiber optic, Ethernet or USB
- Configurable with Revolution® software

### Approvals

## Specifications

**Power:**
Line voltages: 100–240 VAC
Frequency: 50-60 Hz
DC voltages: 12–24 VDC
Power consumption: 25 W

**Excitation Voltage:**
10 VDC, 16 x 350Ω or 32 x 700Ω load cells

**Analog Signal Input Range:**
-10 mV to +45 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation recommended

**A/D Sample Rate:**
7.5 to 960 Hz, software selectable

**Resolution:**
Internal: 8 million counts/8,000,000 23 bit
Display: 1,000,000

**System Linearity / PI Rating:**
±0.01% full scale

**Digital I/O:**
Eight channels on CPU board;
optional 24-channel I/O

**Communication Ports:**
Two ports on CPU board support up to 115,200 bps
Port 2: Full duplex RS-232 with handshaking
Port 4: Full duplex RS-232, simplex 20mA
Optional dual-channel serial expansion boards
Channel A: RS-232, RS-485, 20 mA
Channel B: RS-232, 20 mA

**Display:**
Panel Mount: 3.8 in x 1.2 in (96 mm x 30 mm)
Universal: 5.3 in x 1.5 in (133 mm x 39 mm)
240 x 64 pixel, Transflective LCD with adjustable contrast

**Keys/Buttons:**
Ten-key (panel mount) membrane panel
22- key (universal) membrane panel tactile feel
Optional keyboard connection supported

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40˚C)
Operating: 14°F to 122°F (-10°C to 50˚C)

**Weight:**
Universal enclosure: 9.5 lb (4.3 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)

**Rating/Material:**
NEMA Type 4X/IP66, stainless steel

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
EN 50082 Part 2
IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

**Approvals:**
NTEP CC 08-022, Class III/IIL 10,000d
Measurement Canada AM-5677C
Class III/IIIHD 10,000d
CE Marked
UL/cUL Listed (universal)
UL/cUL Recognized (panel mount)




*Panel Mount*



*CPU Enclosure*



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **PCE Software** | | | |
| **101230** † | 720i Universal, 115 VAC | 12 lb | $1,375.00 |
| **103459** †† | 720i Universal, 115–230 VAC, CE | 12 lb | $1,375.00 |
| **107708*** | 720i Universal, 12–24 VDC | 12 lb | $1,475.00 |
| **101229**** | 720i Panel Mount ,115–230 VAC | 12 lb | $1,375.00 |
| **119116**** | 720i Panel Mount, 115–230 VAC, CE | 12 lb | $1,375.00 |
| **107710*** | 720i Panel Mount, 12–24 VDC | 12 lb | $1,475.00 |
| **Batch Software** | | | |
| **115447** † | 720i Universal, 115 VAC | 12 lb | $1,375.00 |
| **115448** †† | 720i Universal, 115–230 VAC, CE | 12 lb | $1,375.00 |
| **115449**** | 720i Panel Mount, 115–230 VAC | 12 lb | $1,375.00 |

**DC/DC converter installed option, not UL approved*

***Power cord sold separately*

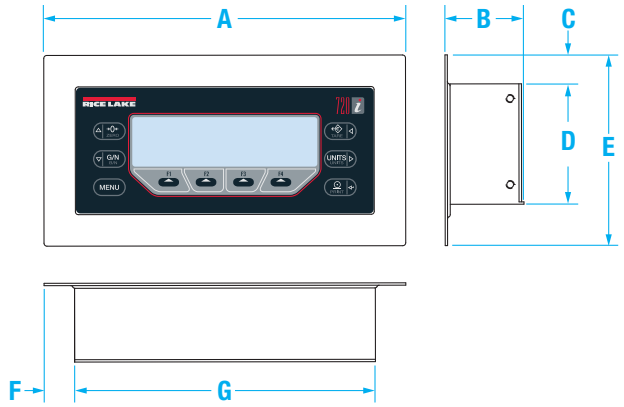
† *US plug (NA) - Type B*

†† *Euro Plug - Type E*

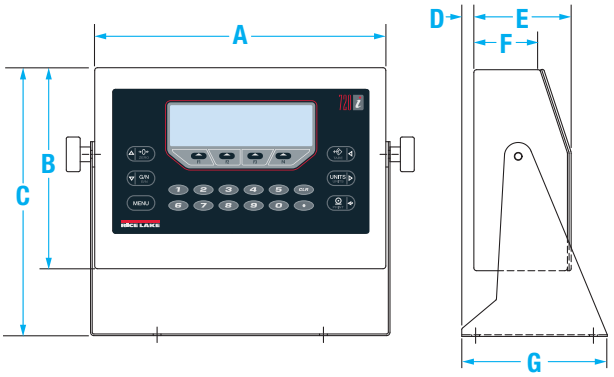
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Option Cards** | | |
| **67601** | Digital I/O, 24-channel | $285.00 |
| **67602** | Analog output: selectable 0-10 V, 0-20 mA | $310.00 |
| **67604** | Serial, dual channel | $335.00 |
| **93245** | USB Port (PC connection only-replaces serial port 2) | $175.00 |
| **Network Cards** | | |
| **77142** | Ethernet TCP/IP Port (replaces serial port 2) | $400.00 |
| **71986** | Ethernet TCP/IP module (installed in option slot) | $400.00 |
| **108671** | Wireless LAN Card 802.11 A/B (replaces serial port 2) | $570.00 |
| **87803** | EtherNet/IP® | $800.00 |
| **68539** | Remote I/O interface | $675.00 |
| **68540** | Profibus® DP interface | $675.00 |
| **68541** | DeviceNet™ interface | $675.00 |
| **Hardware** | | |
| **15436** | Power cord for panel mount NEMA Type 5-15 plug | $17.00 |
| **105382** | Power cord for panel mount CEE 7/7 plug | $17.00 |
| **19369** | Start/stop switch box | $395.00 |
| **83569** | Clear protective overlay (package of five) | $75.00 |
| **118975** | Panel mount kit, for universal | $175.00 |
| **101923** | Remote relay box, does not include relay | $235.00 |
| **93359** | Keyboard, QWERTY PS/2 connector | $90.00 |
| **Manuals & Software** | | |
| **103121** | Installation manual | $25.00 |
| **104033** | 720i toolkit CD | $35.00 |
| **107622** | 720i ProAction Simulator CD | $295.00 |
| **Primary Component Parts** | | |
| **106788** | CPU board assembly with PCE firmware | $825.00 |
| **195388** | CPU board assembly with batching firmware | $825.00 |
| **101244** | LCD Display (panel mount) transflective | $150.00 |
| **102888** | LCD Display (universal) transflective | $150.00 |
| **101239** | Display board (includes display for panel mount) | $400.00 |
| **102887** | Display board (w/o display for universal) | $300.00 |
| **67613** | AC power supply 100-240 nominal, 25 watt | $150.00 |
| **132791** | DC/DC power supply 12-24 VDC nominal, 25 watt | $195.00 |
| **101256** | Switch membrane for panel mount | $65.00 |
| **101257** | Switch membrane for universal | $65.00 |

*To have your option factory installed, please specify when placing your order.*




| 720i Panel Mount Display Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 7.36 in (187 mm) | D | 2.45 in (62 mm) | G | 6.12 in (155 mm) |
| B | 1.60 in (41 mm) | E | 3.88 in (99 mm) | | |
| C | 0.59 in (15 mm) | F | 0.62 in (16 mm) | | |
| **720i Panel Mount CPU Enclosure** | | | | | |
| (L x W x H): 12.75 x 6.05 x 2.14 in (324 x 154 x 5 mm) | | | | | |




| 720i Universal Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 10.50 in (267 mm) | D | 0.44 in (11 mm) | G | 5.25 in (133 mm) |
| B | 7.25 in (184 mm) | E | 3.51 in (89 mm) | | |
| C | 9.66 in (245 mm) | F | 2.31 in (59 mm) | | |



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# 820i™ Series

Programmable Weight Indicator/Controller




## Standard Features

- LCD backlit display (W x H) 4.6 in x 2.2 in
- One small option slot and one large option slot for pluggable options
- Weight display from 0.5 in to 0.75 in
- Display up to two scales (scale 1, scale 2 and total)
- Five user-defined softkeys
- Weight or millivolt calibration with linearization and geographical compensation
- NEMA Type 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- Power for 16 350 -ohm load cells
- 100 setpoints, latched or free-running
- Multi-range/interval
- Peak hold, rate of change
- Audit trail tracking and Alibi™ software
- 1,000-ID truck register for in/out weighing
- User programmable 256 K flash memory
- Onboard data storage 190 K
- Downloadable programs
- Visual programming for easily creating custom programs
- Eight digital I/O (expandable)
- Configurable with Revolution® software

## Approvals

## Specifications

**Power:**
Line voltages: 100–240 VAC
Frequency: 50-60 Hz
DC voltages: 12–24 VDC
Power consumption: 25 W

**Excitation Voltage:**
10 VDC, 16 x 350Ω or 32 x 700Ω load cells

**Analog Signal Input Range:**
-10 mV to +45 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation recommended

**A/D Sample Rate:**
7.5 to 960 Hz, software selectable

**Resolution:**
Internal: 8 million counts/8,000,000 23 bit
Display: 1,000,000

**System Linearity:**
± 0.01% full scale

**Digital I/O:**
Eight channels on CPU board;
optional
24-channel I/O expansion boards

**Communication Ports:**
Two ports on CPU board support up to 115,200bps
Port 2: Full duplex RS-232 with handshaking
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA
Keyboard port hard wired
Optional dual-channel serial expansion boards
Channel A: RS-232, RS-485, 20 mA
Channel B: RS-232, 20 mA

**Display:**
Viewable area (W x H): 4.6 in x 2.2 in (116 mm x 55 mm), 320 x 156 pixel LCD with adjustable contrast
Transmissive display
Transflective display (optional)

**Keys/Buttons:**
28-key membrane panel, tactile feel

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: 14°F to 122°F (-10°C to 50°C)

**Weight:**
9.5 lb (4.3 kg)

**Rating/Material:**
NEMA Type 4X/IP66, stainless steel

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
EN 50082 Part 2 IEC
EN 61000-4-2, 3, 4, 5, 6, 8, and 11

**Approvals:**
NTEP CC 01-088, Class III/IIL 10,000d
Measurement Canada AM-5426
Class III/IIIHD 10,000d
EU Test Certificate GB-1140
UL/cUL Listed
ROHS compliant
CE Marked



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Single Channel** | | | |
| **91995** † | 820i Universal, 115 VAC | 10 lb | $1,725.00 |
| **91996** † | 820i Universal, 115–230 VAC | 10 lb | $1,725.00 |
| **91997** †† | 820i Universal, 115–230 VAC CE/OIML | 10 lb | $1,725.00 |
| **107711*** | 820i Universal, 12–24 VDC nominal | 10 lb | $1,825.00 |
| **Dual Channel** | | | |
| **93011** † | 820i Universal, 115 VAC | 10 lb | $1,825.00 |
| **93012** † | 820i Universal, 115–230 VAC | 10 lb | $1,825.00 |
| **93013** †† | 820i Universal, 115–230 VAC CE/OIML | 10 lb | $1,825.00 |

**DC/DC converter installed option, not UL approved*



*† US plug (NA) - Type B*

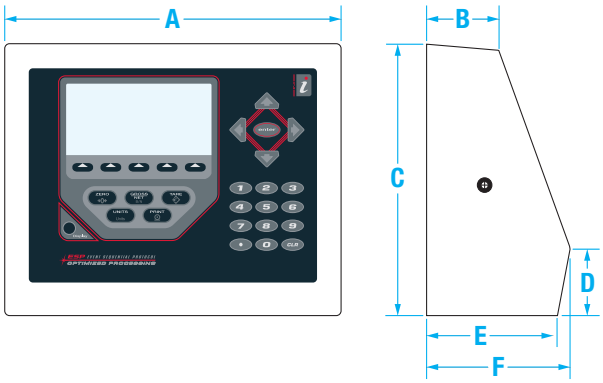


*†† Euro Plug - Type E*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Option Cards** | | |
| **67601** | Digital I/O, 24-channel | $285.00 |
| **67602** | Analog output: selectable 0-10 V, 0-20 mA | $310.00 |
| **103138** | Analog output, dual channel 0-10 V, 0-20 mA | $535.00 |
| **67604** | Serial, dual channel | $335.00 |
| **87697** | Analog input +/-10 VDC, 0-20 mA & thermocouple | $600.00 |
| **93245** | USB Port (PC connection only-replaces serial port) | $175.00 |
| **Network Cards** | | |
| **77142** | Ethernet TCP/IP Port (serial port 2 header) | $400.00 |
| **65383** | Ethernet thin server (external) | $295.00 |
| **71986** | Ethernet TCP/IP module (installed in option slot) | $400.00 |
| **98057** | Wireless LAN card 802.11 B/G (installed in option slot) | $650.00 |
| **108671** | Wireless LAN card 802.11 A/B (serial port 2 header) | $570.00 |
| **68539** | Remote I/O interface | $675.00 |
| **68540** | Profibus® DP interface | $675.00 |
| **68541** | DeviceNet™ interface | $675.00 |
| **87803** | EtherNet/IP® | $800.00 |
| **103136** | ControlNet® interface | $1,000.00 |
| **Hardware** | | |
| **83569** | Clear protective overlay (package of 5) | $75.00 |
| **19369** | Start/stop switch box | $395.00 |
| **101923** | Relay box enclosure, does not include relay | $235.00 |
| **93359** | Keyboard, QWERTY PS/2 connector | $90.00 |
| **Manuals and Software** | | |
| **93018** | Installation manual | $25.00 |
| **77925** | Revolution® scale software | $35.00 |
| **93019** | IRITE IDE software (version 1.0 included with indicator) | $95.00 |
| **Primary Component Parts** | | |
| **102331** | CPU board assembly-single channel includes display | $1,050.00 |
| **102333** | CPU board assembly-dual channel includes display | $1,150.00 |
| **93246** | Display, transmissive blue | $275.00 |
| **67613** | AC power supply 100-240 nominal, 25 watt | $150.00 |
| **132791** | DC/DC power supply, 12-24 VDC, nominal, 25 watt | $175.00 |
| **93247** | Switch panel membrane | $68.00 |

*Relay products can be found on page 592*
*To have your option factory installed, please specify when placing your order.*




| 820i Universal Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 10.56 in (268 mm) | C | 8.5 in (216 mm) | E | 4.12 in (105 mm) |
| B | 2.28 in (58 mm) | D | 2.16 in (55 mm) | F | 4.5 in (127 mm) |



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# 880/880 Plus Performance™ Series

Programmable Weight Indicator/Controller




*880 Plus Universal*




*880 Panel Mount*

*Board Information:*
*Previous green CPU board is 5.0" wide*
*Current blue CPU board is 5.5" wide*

## Standard Features

- LED display, 0.56 in (14 mm), six-digit, 14-segment
- RS-232 or RS-485 serial port
- USB device port connects directly to a PC
- USB host port for connecting keyboard or flash drive (v4.0 or newer)
- Ethernet TCP/IP polled or continuous
- AC or DC models
- Built-in DIN-rail clips on controller box (panel mount)
- Display and controller can be separated up to 250 ft (panel mount)
- Hardware slot for one option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time & date and setpoints
- Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes.
- 20 setpoints with latched batch engine or unlatched outputs
- Four onboard digital I/O channels
- Programmable ticket formats up to 1,000 characters for header text, gross, net, accumulator and setpoints
- Five-point linearization calibration
- Local/remote operation
- Multi-range or multi-interval weighing
- Filter settings for light, medium and heavy noise

## Approvals

## Options

- Fieldbus (Ethernet/IP, ProfiNet, Modbus/TCP, Profibus DP, DeviceNet, EtherCAT), analog output, relay board
  Requires Version 4.0 or newer: Dual serial output, 24-channel digital input/output
- Truck in/out program for 100 vehicle IDs
- Adapter plate for converting 310 A and 520 panel mounts
- Panel mount kit for universal enclosure

## Specifications

**Power:**
Line voltages: 100-240 VAC
Frequency: 50-60 Hz
DC voltages: 12-24 VDC
Power consumption: AC: 15 W, DC: 20 W

**Excitation Voltage:**
10 VDC, 16 x 350Ω or 32 x 700Ω load cells

**Analog Signal Input Range:**
-45 mV to 45 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz;
1.0 µV/graduation recommended

**A/D Sample Rate:**
7.5 to 960 Hz, software selectable

**Resolution:**
Internal: 8 million counts/8,000,000 23 bit
Display: 999,999

**System Linearity:**
± 0.01% full scale

**Digital I/O:**
Four I/O onboard (max), primary keys, pseudo functions, batching functions

**Communication Ports:**
RS-232 full duplex or RS-485 half duplex;
USB type A connector, USB micro A/B connector 2.0;
Ethernet TCP/IP

**Status Annunciators:**
Gross, net, center of zero, standstill, lb, kg, tare, preset tare, multi-range/interval 1/2/3

**Display:**
LED, 0.56 in (14 mm), six-digit, 14-segment with decimal or comma

**Keys/Buttons:**
Membrane panel, tactile feel

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: 14°F to 122°F (-10°C to 50°C)

**Dimensions (W x H x D):**
Panel: 6 in x 4 in x 4.95 in
(152 mm x 102 mm x 126 mm)
Universal: 9.87 in x 9.38 in x 4.33 in
(251 mm x 238 mm x 110 mm)

**Weight:**
Panel: 2.5 lb (1.2 kg);
Universal: 12 lb (5.4 kg)

**Rating/Material:**
Display bezel NEMA Type 4X, Type 12, and IP69K
Panel display: stainless steel
Controller box: aluminum
Universal: stainless steel

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
EN 50082 Part 2 IEC
EN 61000-4-2, 3, 4, 5, 6, 8, 11, 10 V/m

**Approvals:**
NTEP CC 13-080 Class III/IIIL, 10,000d
Measurement Canada AM-5931C
Class III/IIIHD, 10,000d
OIML R76/1992-GB1-04.02 Class III, 10,000d
EU Test Certificate TC8463
UL/cUL Listed (universal)
UL/cUL Recognized (panel mount)
CE Marked



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# 880/880 Plus Performance™ Series

Digital Weight Indicator/Controller

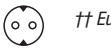
## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **880 Panel Mount AC Powered*** | | | |
| 151674 | Display only | 2 lb | $350.00 |
| 177977 | 115-230 VAC, controller only | 4 lb | $800.00 |
| 177976 | 115-230 VAC, indicator | 4 lb | $1,125.00 |
| 177979 | 115-230 VAC, with analog output | 4 lb | $1,450.00 |
| 177980 | 115-230 VAC, with relay board | 4 lb | $1,450.00 |
| 177982 | 115-230 VAC, with EtherNet/IP | 4 lb | $1,700.00 |
| 177983 | 115-230 VAC, with ProfiNet | 4 lb | $1,700.00 |
| 177984 | 115-230 VAC, with Modbus/TCP | 4 lb | $1,700.00 |
| 177985 | 115-230 VAC, with Profibus DP | 4 lb | $1,700.00 |
| 177986 | 115-230 VAC, with DeviceNet | 4 lb | $1,700.00 |
| 179155 | 115-230 VAC, with EtherCAT | 4 lb | $1,700.00 |
| **880 Panel Mount DC Powered*** | | | |
| 177987 | 12-24 VDC, indicator | 4 lb | $1,225.00 |
| 177988 | 12-24 VDC, controller only | 4 lb | $900.00 |
| **880 Plus Universal AC Powered** | | | |
| 177989 † | 115 VAC, indicator | 8 lb | $1,350.00 |
| 178496 † | 115 VAC, with analog output | 8 lb | $1,675.00 |
| 178499 † | 115 VAC, with relay board | 8 lb | $1,675.00 |
| 179147 † | 115 VAC, with EtherNet/IP | 8 lb | $1,925.00 |
| 179148 † | 115 VAC, with Profinet | 8 lb | $1,925.00 |
| 179149 † | 115 VAC, with Modbus/TCP | 8 lb | $1,925.00 |
| 179150 † | 115 VAC, with Profibus | 8 lb | $1,925.00 |
| 179152 † | 115 VAC, with DeviceNet | 8 lb | $1,925.00 |
| 179154 † | 115 VAC, with EtherCAT | 8 lb | $1,925.00 |
| 177990 †† | 115-230 VAC, indicator | 8 lb | $1,350.00 |
| 178497 †† | 115-230 VAC, with analog output | 8 lb | $1,675.00 |
| 178500 †† | 115-230 VAC, with relay board | 8 lb | $1,675.00 |
| **880 Plus Universal DC Powered** | | | |
| 178495 | 12-24 VDC, indicator | 8 lb | $1,450.00 |

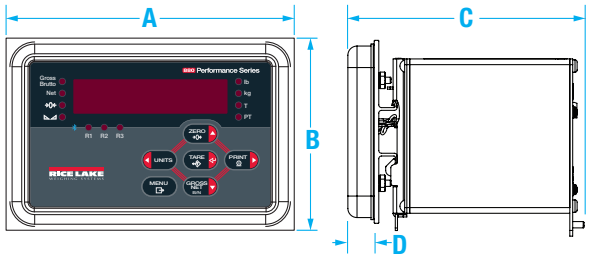
*Power cord not included



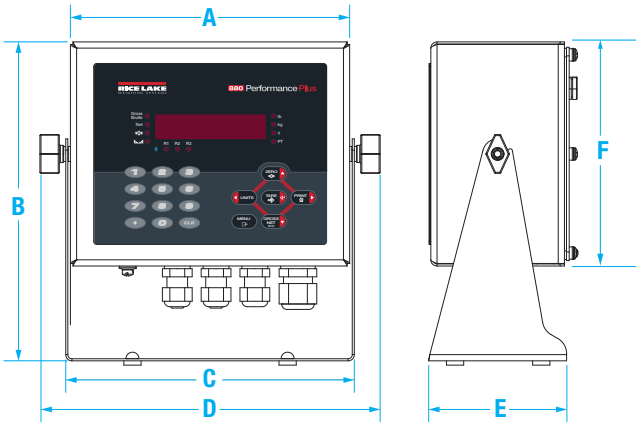
† US plug (NA) - Type B



†† Euro Plug - Type E




| 880 Panel Mount Dimensions | | | |
|---|---|---|---|
| A | 6.0 in (152 mm) | C | 4.95 in (126 mm) |
| B | 4.0 in (102 mm) | D | 0.58 in (14 mm) BEZEL DEPTH |




| 880 Universal Dimensions | | | |
|---|---|---|---|
| A | 8.10 in (206 mm) | D | 9.87 in (248 mm) |
| B | 9.38 in (235 mm) | E | 4.0 in (102 mm) |
| C | 8.37 in (213 mm) | F | 6.5 in (165 mm) |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Option Cards (5.5 in CPU only)** | | |
| 179156 | Analog output, 0-10 VDC, 0-20 mA, 4-20 mA | $325.00 |
| 179157 | Relay board, four dry contact outputs | $325.00 |
| 197343** | Digital I/O, 24-channel TTL output | $310.00 |
| 197347** | Serial ports, dual-channel RS-232/RS-485 | $360.00 |
| **Network Cards** | | |
| 179158 | EtherCAT interface | $575.00 |
| 179159 | EtherNet/IP® interface | $575.00 |
| 179160 | Profinet® interface | $575.00 |
| 179161 | Modbus/TCP® interface | $575.00 |
| 179162 | DeviceNet® interface | $575.00 |
| 179163 | Profibus DP interface | $575.00 |
| **Hardware** | | |
| 153660 | Metrological sealing kit for panel mount | $10.00 |
| 158404 | Adapter plate for IQ310 and 520 replacement | $69.00 |
| 101923 | Relay box enclosure, does not include relay | $235.00 |
| 177850 | Panel mount kit for universal enclosure | $175.00 |
| 180835 | Universal backplate with RJ-45 receptacle | $104.00 |
| 197422 | Universal backplate with micro USB receptacle | $125.00 |
| 197724 | Clear Protective Overlay for Universal (pack of 5) | $65.00 |
| 15436 | Power cord for panel mount, US plug | $17.00 |
| 105382 | Power cord for panel mount, Euro plug | $17.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Cables** | | |
| 152434 | Cable, USB A to micro A shielded, 2 meters | $15.00 |
| 156817 | Cable, Ethernet RJ45 connectors 1 meter | $30.00 |
| 156806 | Cable, USB A to A, 1 meter | $30.00 |
| 156809 | Cable, USB A to B, 1 meter | $50.00 |
| **Manuals and Software** | | |
| 77925 | Revolution™ scale software | $35.00 |
| 152240 | Operators manual | $25.00 |
| 158387 | Technical manual | $25.00 |
| **Primary Component Parts** | | |
| 131740 | Overlay, panel mount, six-key | $65.00 |
| 163986 | Overlay, universal with numeric keypad | $65.00 |
| 131598 | Display board | $225.00 |
| 175603* | Power supply, 100-240 VAC | $200.00 |
| 175604* | Power supply, 12-24 VDC | $300.00 |
| 175109* | CPU board | $550.00 |

** Design change in 2017 to 5.5 in wide controller, see replacement parts catalog for the 5.0 inch wide boards.*
*** Requires version 4.0 firmware*
*To have your option factory installed, please specify when placing your order.*



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## Specifications

**Power:**
AC voltages: 100-240 VAC
Frequency: 50-60 Hz
DC voltages: 12-24 VDC
Consumption:
AC: 25W (universal) or 65W (others)
DC: 25W for all models

**Excitation Voltage:**
10 ± VDC
16 x 350Ω or
32 x 700Ω load cells per A/D card

**Analog Signal Input Range:**
-45 mV to +45 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation recommended

**A/D Sample Rate:**
7.5 to 960 Hz, software selectable

**Resolution:**
Internal: 8 million counts/8,000,000
Display: 1,000,000

**System Linearity:**
± 0.01% full scale

**Digital I/O:**
Six I/O channels on CPU board;
Optional 24-channel I/O expansion boards

**Communication Ports:**
Four ports on CPU board support up to 115,200bps
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface or USB type A and B connectors
Port 3: Full duplex RS-232, 20mA
Port 4: Full duplex RS-232, 2-wire RS-485, 20mA
Optional dual-channel serial expansion boards
Channel A: RS-232, RS-485, 20 mA
Channel B: RS-232, 20 mA

**Display:**
(W x H) 4.6 in x 3.4 in (116 mm x 86 mm), 320 x 240 pixel
LCD module with adjustable contrast.
Transmissive display
Transflective display (optional)

**Keys/Buttons:**
27-key membrane panel, tactile feel, PS/2 or USB port for external keyboard connection

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to +40°C)
Operating: 14°F to 122°F (-10°C to +50°C)

**Weight:**
Universal enclosure: 9.5 lb (4.3 kg)
Wall mount enclosure: 23.0 lb (10.4 kg)
Panel mount enclosure: 8.5 lb (3.9 kg)
Deep universal: 11 lb (5.0 kg)

**Rating/Material:**
NEMA Type 4X, Type 12, IP66, stainless steel

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
EN 50082 Part 2
IEC EN 61000-4-2, 3, 4, 5, 6, 8, 11

**Approvals:**
NTEP CC 01-088, Class III/IIIL 10,000d
Measurement Canada AM-5426, Class III/III HD 10,000d
OIML approved 6,000/10,000, TC11584
UL/cUL Listed (universal, deep and wall mount)
UL/cUL Recognized (panel mount)
UL/cUL Listed 508A (custom wall mount)
CE Marked




*Board Information:*
*Previous CPU board is green in color*
*Current CPU board is blue in color*

### Approvals

## Standard Features

- Large 4.6" W x 3.4" H, 320 x 240 pixel back-lit LCD graphical display
- Selectable character sizes from 0.25 in to 1.2 in
- Configurable (60) operator prompts and 256 widgets
- Display up to four scale channels per screen with required Legal for Trade information
- 32 scale accumulators
- Five displayed softkeys with 10 user-defined, 14 preset functions per screen
- Peak hold and rate of change
- Audit trail tracking and alibi storage
- Multiple range/interval weighing
- Four bidirectional communication ports
- Local/remote keypress operation
- Operator prompts/256 widgets
- Ten programmable display screens
- PS/2 or USB keyboard port for data entry
- Eight onboard databases
- Six onboard digital I/O and two onboard option card slots
- 100 configurable setpoints, 30 types
- 64 K user on-board NV RAM
- User programmable 128 K flash memory
- Reflash memory to upgrade firmware
- 1,000-ID truck registers for in/out weighing
- Programmable ticket formats and 20 auxiliary print formats
- 32 individual scale accumulators
- Millivolt calibration, five-point linearization and geographical calibration
- Selectable A/D measurement rate up to 960/second
- 100 setpoints, 30 configurable setpoint types
- Power for 16, 350-ohm load cells per A/D board
- iQUBE® diagnostic connectivity
- NEMA Type 4X/IP66 stainless steel enclosure

## USB Standard Features

- USB interface card on Port 2
- The USB card is supported on Rev L CPU boards or later
- The 920i for USB interface requires firmware version 5.0 or higher

**Connector Types:**
- Standard Type A: 920i connects to keyboard ASCII font printers and flash drives
- Standard Type B: 920i connects to PC

**USB Interface Functions:**
- Supports weigh mode and configuration mode functions
- Supports upload of databases and .920 configuration file
- Supports download of databases, .920 configuration file, iRite, COD file and firmware file
- Sanity checks for command errors

**Flash Drives:**
- Supports USB 2.0
- Create sub directories by unit ID and database name
- Use the root directory for generic files

**Optional Washdown Connectors:**
- Sealed receptacle
- Connectors - cables
- USB cover - flash drive and receptacle




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# 920i® Series

Programmable Weight Indicator/Controller





## 920i Universal Part Number/Price

| Part # | Description | USB | Est. Weight | Price |
|---|---|---|---|---|
| **Single-Channel** | | | | |
| **67527** † | 115 VAC | | 10 lb | $2,225.00 |
| **115003** † | 115 VAC | USB | 10 lb | $2,325.00 |
| **67615** † | 230 VAC | | 10 lb | $2,225.00 |
| **120062** † | 230 VAC | USB | 10 lb | $2,325.00 |
| **69522** †† | 230 VAC | | 10 lb | $2,225.00 |
| **120074** †† | 230 VAC | USB | 10 lb | $2,325.00 |
| **107713*** | 12-24 VDC, 25 watt | | 10 lb | $2,325.00 |
| **120080*** | 12-24 VDC, 25 watt | USB | 10 lb | $2,425.00 |
| **Dual-Channel** | | | | |
| **69767** † | 115 VAC | | 10 lb | $2,325.00 |
| **120086** † | 115 VAC | USB | 10 lb | $2,425.00 |
| **69772** † | 230 VAC | | 10 lb | $2,325.00 |
| **120090** † | 230 VAC | USB | 10 lb | $2,425.00 |
| **69774** †† | 230 VAC | | 10 lb | $2,325.00 |
| **120096** †† | 230 VAC | USB | 10 lb | $2,425.00 |
| **No A/D Channel** | | | | |
| **77790** † | 115 VAC | | 10 lb | $2,075.00 |
| **120100** † | 115 VAC | USB | 10 lb | $2,175.00 |
| **77791** †† | 230 VAC | | 10 lb | $2,075.00 |
| **120104** †† | 230 VAC | USB | 10 lb | $2,175.00 |

**DC/DC converter installed option, not UL approved*

† US plug (NA) - Type B

†† Euro Plug - Type E

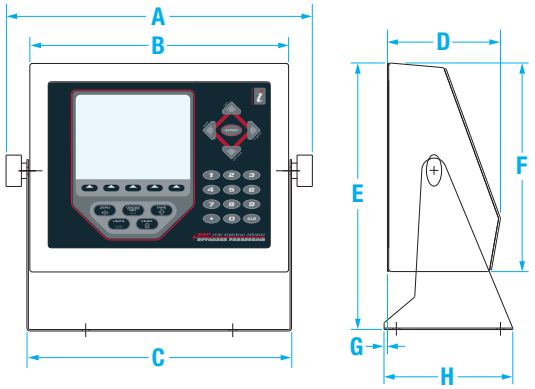
## 920i Deep Universal Part Number/Price

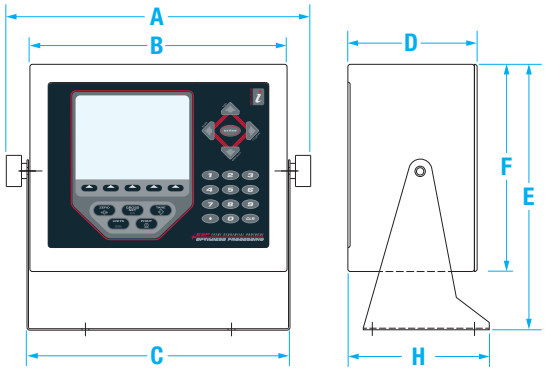
| Part # | Description | USB | Est. Weight | Price |
|---|---|---|---|---|
| **Single-Channel** | | | | |
| **82455** † | 115 VAC | | 12 lb | $2,425.00 |
| **115004** † | 115 VAC | USB | 12 lb | $2,525.00 |
| **82457** † | 230 VAC | | 12 lb | $2,425.00 |
| **120064** † | 230 VAC | USB | 12 lb | $2,525.00 |
| **82459** †† | 230 VAC | | 12 lb | $2,425.00 |
| **120075** †† | 230 VAC | USB | 12 lb | $2,525.00 |
| **107714*** | 12-24 VDC, 25 watt | | 12 lb | $2,525.00 |
| **120081*** | 12-24 VDC, 25 watt | USB | 12 lb | $2,625.00 |
| **Dual-Channel** | | | | |
| **82456** † | 115 VAC | | 12 lb | $2,525.00 |
| **120087** † | 115 VAC | USB | 12 lb | $2,625.00 |
| **82458** † | 230 VAC | | 12 lb | $2,525.00 |
| **120092** † | 230 VAC | USB | 12 lb | $2,625.00 |
| **82460** †† | 230 VAC | | 12 lb | $2,525.00 |
| **120097** †† | 230 VAC | USB | 12 lb | $2,625.00 |
| **No A/D Channel** | | | | |
| **93243** † | 115 VAC | | 12 lb | $2,275.00 |
| **120101** † | 115 VAC | USB | 12 lb | $2,375.00 |
| **93244** †† | 230 VAC | | 12 lb | $2,275.00 |
| **120105** †† | 230 VAC | USB | 12 lb | $2,375.00 |

**DC/DC converter installed option, not UL approved*

† US plug (NA) - Type B

†† Euro Plug - Type E




| 920i Universal Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 12.50 in (318 mm) | D | 4.61 in (117 mm) | G | 0.14 in (3.5 mm) |
| B | 10.56 in (268 mm) | E | 10.87 in (276 mm) | H | 5.25 in (206 mm) |
| C | 10.90 in (277 mm) | F | 8.50 in (216 mm) | | |

| 920i Deep Universal Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 12.50 in (318 mm) | D | 5.36 in (216 mm) | F | 8.50 in (216 mm) |
| B | 10.76 in (273 mm) | E | 10.87 in (276 mm) | H | 5.88 in (149 mm) |
| C | 10.90 in (277 mm) | | | | |



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## 920i Wall Mount Part Number/Price

| Part # | Description | USB | Est. Weight | Price |
|---|---|---|---|---|
| **Single-Channel** | | | | |
| **69763** † | 115 VAC | | 23 lb | $2,825.00 |
| **115005** † | 115 VAC | USB | 23 lb | $2,925.00 |
| **69765** † | 230 VAC | | 23 lb | $2,825.00 |
| **120066** † | 230 VAC | USB | 23 lb | $2,925.00 |
| **72133** †† | 230 VAC | | 23 lb | $2,825.00 |
| **120078** †† | 230 VAC | USB | 23 lb | $2,925.00 |
| **107715*** | 12-24 VDC, 25 watt | | 23 lb | $2,925.00 |
| **120082*** | 12-24 VDC, 25 watt | USB | 23 lb | $3,025.00 |
| **Dual-Channel** | | | | |
| **69770** † | 115 VAC | | 23 lb | $2,925.00 |
| **120088** † | 115 VAC | USB | 23 lb | $3,025.00 |
| **69776** † | 230 VAC | | 23 lb | $2,925.00 |
| **120093** † | 230 VAC | USB | 23 lb | $3,025.00 |
| **72134** †† | 230 VAC | | 23 lb | $2,925.00 |
| **120098** †† | 230 VAC | USB | 23 lb | $3,025.00 |
| **No A/D Channel** | | | | |
| **77794** † | 115 VAC | | 23 lb | $2,675.00 |
| **120102** † | 115 VAC | USB | 23 lb | $2,775.00 |
| **77795** †† | 230 VAC | | 23 lb | $2,675.00 |
| **120106** †† | 230 VAC | USB | 23 lb | $2,775.00 |
| **153346** | 115 VAC with start/stop switches | | 23 lb | $2,995.00 |

**DC/DC converter installed option, not UL approved*

† US plug (NA) - Type B

†† Euro Plug - Type E

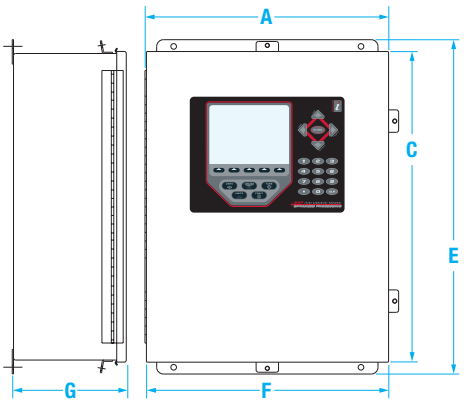
## 920i Panel Mount Part Number/Price

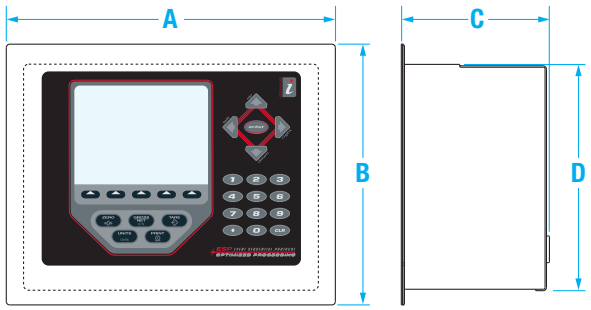
| Part # | Description | USB | Est. Weight | Price |
|---|---|---|---|---|
| **Single-Channel** | | | | |
| **69764** † | 115 VAC | | 9 lb | $2,225.00 |
| **115006** † | 115 VAC | USB | 9 lb | $2,325.00 |
| **69766** † | 230 VAC | | 9 lb | $2,225.00 |
| **120069** † | 230 VAC | USB | 9 lb | $2,275.00 |
| **72137** †† | 230 VAC | | 9 lb | $2,175.00 |
| **120079** †† | 230 VAC | USB | 9 lb | $2,325.00 |
| **107716*** | 12-24 VDC, 25 watt | | 9 lb | $2,325.00 |
| **120083*** | 12-24 VDC, 25 watt | USB | 9 lb | $2,425.00 |
| **Dual-Channel** | | | | |
| **69771** † | 115 VAC | | 9 lb | $2,325.00 |
| **120089** † | 115 VAC | USB | 9 lb | $2,425.00 |
| **69777** † | 230 VAC | | 9 lb | $2,325.00 |
| **120095** † | 230 VAC | USB | 9 lb | $2,425.00 |
| **72138** †† | 230 VAC | | 9 lb | $2,325.00 |
| **120099** †† | 230 VAC | USB | 9 lb | $2,425.00 |
| **No A/D Channel** | | | | |
| **77792** † | 115 VAC | | 9 lb | $2,075.00 |
| **120103** † | 115 VAC | USB | 9 lb | $2,175.00 |
| **77793** †† | 230 VAC | | 9 lb | $2,075.00 |
| **120107** †† | 230 VAC | USB | 9 lb | $2,175.00 |

**DC/DC converter installed option, not UL approved*

† US plug (NA) - Type B

†† Euro Plug - Type E




| 920i Wall Mount Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 14.30 in (363 mm) | D | 18.84 in (479 mm) | F | 14.30 in (363 mm) |
| B | 11.00 in (279 mm) | E | 19.63 in (499 mm) | G | 6.75 in (171 mm) |
| C | 18.20 in (462 mm) | | | | |

| 920i Panel Mount Dimensions | | | |
|---|---|---|---|
| A | 11.56 in (294 mm) | C | 5.20 in (132 mm) |
| B | 9.16 in (233 mm) | D | 7.95 in (202 mm) |






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# 920i® Series

Programmable Weight Indicator/Controller

## Options/Accessories

*To have your option factory installed, please specify when placing your order.*

| Part # | Description | Price |
|---|---|---|
| **Option Cards** | | |
| **68532** | A/D, single-channel | $300.00 |
| **68533** | A/D, dual-channel | $450.00 |
| **67600** | Memory, 1 MB NV RAM | $285.00 |
| **67601** | Digital I/O, 24-channel TTL output | $285.00 |
| **67602** | Analog output: selectable 0-10 V, 0-20 mA | $310.00 |
| **103138** | Analog output, dual-channel 0-10 V, 0-20 mA | $535.00 |
| **67603** | Pulse input, single-channel | $285.00 |
| **67604** | Serial port card, dual-channel, RS-232 and RS-485 | $335.00 |
| **87697** | Analog input +/-10 VDC, 0-20 mA and thermocouple | $600.00 |
| **Network Cards** | | |
| **65383** | Ethernet Thin Server (external) | $295.00 |
| **71986** | Ethernet TCP/IP 10/100 module (internal) page 609 | $400.00 |
| **98057** | Wireless LAN module 802.11 b/g page 609 | $650.00 |
| **87803** | EtherNet/IP® page 608 | $800.00 |
| **68539** | Remote I/O interface page 607 | $675.00 |
| **68540** | Profibus® DP interface page 606 | $675.00 |
| **187816** | Profinet® I/O interface page 606 | $800.00 |
| **68541** | DeviceNet™ interface page 607 | $675.00 |
| **103136** | ControlNet® interface page 608 | $1,000.00 |
| **Expansion Cards** | | |
| **69782** | Two-slot expansion board (wall mount) | $300.00 |
| **71743** | Two-slot expansion board (panel mount and deep universal) | $300.00 |
| **179488** | Two-slot expansion board (wall mount DC powered) | $300.00 |
| **180047** | Two-slot expansion board (deep universal and panel mount, DC powered) | $300.00 |
| **69783** | Six-slot expansion board (wall mount) | $400.00 |
| **Hardware** | | |
| **83569** | Clear protective overlay (package of 5) | $75.00 |
| **70056** | Cable, DB9M to DB9F, Straight Cable | $35.00 |
| **99149** | Keyboard, QWERTY 109-key USB, flexible, washable | $135.00 |
| **77788** | Fiber optic board, installed in 920i | $200.00 |
| **92777** | Filter, PreVent™ vent kit PG 7 cord grip | $30.00 |
| **19368** | Start/stop controls without box, for use on wall mount | $395.00 |
| **19369** | Start/stop switch with FRP box | $395.00 |
| **93359** | Keyboard, QWERTY PS/2 connector | $90.00 |
| **Manuals and Software** | | |
| **69781** | iRev™ scale software | $95.00 |
| **72809** | 920i interchange® database software | $295.00 |
| **67887** | Additional installation manual | $35.00 |
| **67888** | Additional programming reference | $35.00 |

## Primary Component Parts

| Part # | DESCRIPTION | PRICE |
|---|---|---|
| **Boards** | | |
| **186272*** ** | CPU board assembly for LED backlight, (blue color) | $975.00 |
| **186275*** ** | Display board, LED back light, transmissive | $275.00 |
| **186276*** ** | Display board, LED back light, transflective | $275.00 |
| **Power Supply** | | |
| **67613** | AC power supply, 25 watt for universal | $150.00 |
| **71333** | AC power supply, 65 watt for deep, panel and wall mount | $175.00 |
| **132791** | Power supply 12-24 VDC, 25 watt | $195.00 |
| **Membrane** | | |
| **66502** | Switch panel membrane | $68.00 |

****Design change in 2018 to LED backlight display. See replacement parts for CCFL backlight display and green CPU board Rev N or older.*

*The LED backlight display can be used with green CPU board Rev N or older by replacing the power supply cable, see Tech Bulletin PN 189640 for compatibility details. There is a generic retrofit PN 200642 for the existing power supply cable or a new power supply cable can be installed. Universal 186464 (AC) 186464 (DC); Deep universal 186278 (AC) 187603 (DC); Panel 186278 (AC) 187603 (DC); Wall 186760 (AC) 188345 (DC); Two-slot expansion for wall 188716 (AC) 189424 (DC); Two-slot expansion panel for deep universal 188717 (AC) 189425 (DC); Six-slot expansion for wall 188774 (AC).*

## Cables and Receptacles

*To have your option factory installed, please specify when placing your order.*

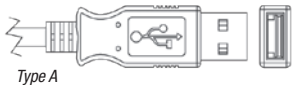
| Part # | Connector Type | | Length | Price |
|---|---|---|---|---|
| **USB Cables** *(Connector is a male plug)* | | | | |
| **79074** | **A** UNSEALED | **B** UNSEALED | 2 m | $30.00 |
| **124700** | **A** SEALED | **B** SEALED | 3 m | $85.00 |
| **126477** | **A** SEALED | **A** UNSEALED | 3 m | $85.00 |
| **124701** | **A** SEALED | **B** UNSEALED | 3 m | $85.00 |
| **124702** | **B** SEALED | **A** UNSEALED | 3 m | $85.00 |
| **USB Receptacles** *(Receptacle is a socket)* | | | | |
| **126476** | **A** SEALED | **A** UNSEALED | 0.5 m | $85.00 |
| **124703** | **A** SEALED | **B** UNSEALED | 0.5 m | $85.00 |
| **124704** | **B** SEALED | **B** UNSEALED | 0.5 m | $85.00 |
| **125998*** | **A** SEALED | **FIVE-PIN** Internal to 920i | 0.28 m | $85.00 |
| **125999*** | **B** SEALED | **FIVE-PIN** Internal to 920i | 0.28 m | $85.00 |
| **Ethernet Cables** | | | | |
| **124706** | RJ-45 SEALED | RJ-45 SEALED | 3 m | $85.00 |
| **124707** | RJ-45 SEALED | RJ-45 UNSEALED | 2 m | $85.00 |
| **Ethernet Receptacles** *(Receptacle is a socket)* | | | | |
| **176789** | RJ-45 SEALED, 0.75 m | | | $100.00 |
| **172734** | RJ-45 SEALED, 0.5 m | | | $85.00 |
| **126353*** | RJ-45 SEALED, Internal to 920i, Requires Ethernet TCP/IP option installed | | 0.28 m | $85.00 |
| **Cable and Receptacle Accessories** | | | | |
| **124695** | Panel plug 1.125 in diameter | | | $6.00 |
| **124694** | Cover for sealed receptacles | | | $12.00 |
| **124689** | Cover for flash driver mounts on sealed receptacle | | | $23.00 |
| **195607** | USB Flash Drive 8GB | | | $7.00 |

**These options require a milled back plate which has two cutouts. If ordering only one receptacle, a plug (PN 124695) is required for the second cutout. USB enclosure parts with cutout: PN 119891 (Universal) PN 115118 (Universal Deep) PN 126585 (Wall Mount)*

***Unsealed Connectors***

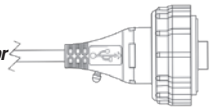


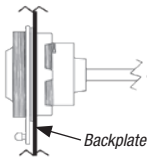
*Type B*



*Type A*

***Sealed Connector***





***Sealed Receptacle***

*Backplate*



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## Relays

| Part # | Voltage | Description | Price |
|---|---|---|---|
| **Grayhill 2-Channel Input relay** | | | |
| **52318** | 120VAC | 70L-IAC | $54.00 |
| **52319** | 240VAC | 70L-IACA | $54.00 |
| **52332** | 2.5-28VDC | 70L-IDCB | $54.00 |
| **52331** | 10-32VDC | 70L-IDC | $54.00 |
| **Grayhill 2-Channel Output relay** | | | |
| **52316** | 120-140VAC | 70L-OAC | $54.00 |
| **52317** | 240-280VAC | 70L-OACA | $54.00 |
| **84698** | 120-140VAC | 70L-OAC-L | $76.00 |
| **84699** | 240-280VAC | 70L-OACA-L | $76.00 |
| **71377** | 0-200VDC/VAC | 70L-ODC5R, (N/O) dry contact | $98.00 |
| **71376** | 3-60VDC | 70L-ODC | $76.00 |
| **OPTO 22 1-Channel Input relay** | | | |
| **15972** | 90-140VAC | G4IAC5-L (N/O), yellow | $35.00 |
| **36631** | 180-280VAC/VDC | G4IAC5A (N/O), yellow | $35.00 |
| **15969** | 10-32VDC | G4IDC5 (N/O), white | $35.00 |
| **OPTO 22 1-Channel Output relay** | | | |
| **15971** | 115 VAC | G4OAC5 (N/O), black | $35.00 |
| **22847** | 115/230 VAC | G4OAC5A5 (N/C), black | $35.00 |
| **36632** | 115/230 VAC | G4OAC5A (N/O), black | $35.00 |
| **15970** | 100 VDC | G4ODC5R, (N/O) dry contact, red | $35.00 |
| **22848** | 100 VDC | G4ODC5R5, (N/C) dry contact, red | $35.00 |

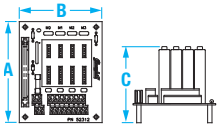
## Miscellaneous Parts

| Part # | Description | Price |
|---|---|---|
| **Cables for digital I/O** | | |
| **70780** | 50-Pin flat ribbon, 24 in | $50.00 |
| **93577** | 50-Pin flat ribbon, 31 in | $65.00 |
| **94384** | 50-Pin flat ribbon, 50 in | $65.00 |
| **70779** | 50-Pin round ribbon with cord grip, 60 in | $155.00 |
| **72442** | 50-Pin round ribbon without cord grip, 60 in | $150.00 |
| **Grayhill Misc.** | | |
| **54215** | Fuse, 3.15 amp, Grayhill | $4.00 |
| **46189** | Jumper strap, 10 position for Grayhill | $5.00 |
| **Opto 22 Misc.** | | |
| **26834** | Fuse, 1A 250V (for PN 15970 and PN 22848) | $7.50 |
| **21735** | Fuse, 4A 250V (for PN 15971, PN 22847 and PN 36632) | $10.00 |
| **16478** | Quencharc arc suppressor | $11.00 |
| **101923** | FRP enclosure with Opto four-channel rack | $235.00 |
| **99032** | Adapter plate, for four-channel Opto rack 33490 | $5.00 |

## Relay Racks

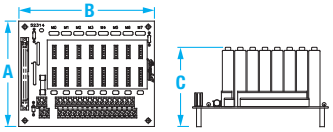
| Part # | Description | Price |
|---|---|---|
| **Grayhill 8-Channel** (4 slots) | | |
| **52312** | Panel and wall mount, requires 50-pin flat or round ribbon cable | $178.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 4.27 in (108 mm) | B | 3.5 in (89 mm) | C | 3.22 in (82 mm) |



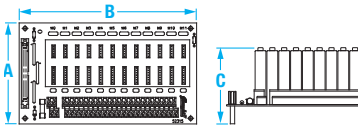

| Grayhill 16-Channel (8 slots) | | |
|---|---|---|
| **52314** | Panel and wall mount, requires 50-pin flat or round ribbon cable | $262.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 4.27 in (108 mm) | B | 5.50 in (140 mm) | C | 3.22 in (82 mm) |



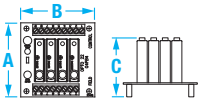

| Grayhill 24-Channel (12 slots) | | |
|---|---|---|
| **52315** | Panel and wall mount, requires 50-pin flat or round ribbon cable | $398.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 4.27 in (108 mm) | B | 7.50 in (191 mm) | C | 3.22 in (82 mm) |



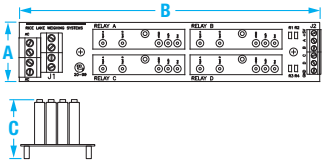

| OPTO 22 4-Channel | | |
|---|---|---|
| **15973** | Four-channel relay rack | $100.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 3.25 in (83 mm) | B | 3.25 in (83 mm) | C | 2.32 in (59 mm) |



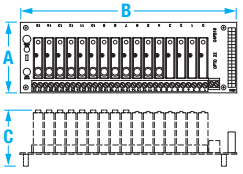

| OPTO 22 4-Channel | | |
|---|---|---|
| **45408** | Four-channel relay rack (non UL) | $150.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 1.20 in (30 mm) | B | 6.11 in (155 mm) | C | 2.32 in (59 mm) |



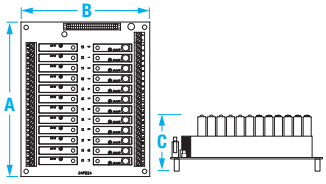

| OPTO 22 16-Channel | | |
|---|---|---|
| **33206** | 16-channel relay rack, ribbon cable connection | $185.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 3.25 in (83 mm) | B | 10.0 in (254mm) | C | 2.32 in (59 mm) |




| OPTO 22 24-Channel | | |
|---|---|---|
| **33205** | 24-channel relay rack, ribbon cable connection, | $315.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 7.50 in (83 mm) | B | 6.25 in (83 mm) | C | 2.32 in (59 mm) |








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# 1280 Enterprise™ Series

Programmable Color Touchscreen Weight Indicator/Controller




## Standard Features

- Graphical color display that adjusts for ambient light conditions
- Highly customizable graphical user interface
- Three different enclosure types: universal with tilt stand, panel mount and wall mount
- Resistive color touchscreen that can be used with gloves
- On-screen keyboard available during entry mode or use an external keyboard
- Multi-language operation and text entry
- Keypad for scale operations, numeric entry and navigation
- 22 softkeys with 10 user-defined
- More than 150 built-in functions for programming application process & data tables
- USB, Ethernet TCP/IP, Wi-Fi Direct®, two RS-232 and RS-485 serial ports
- Dual port destinations for print and/or email of iQUBE²® alerts, iRite reporting or weight tickets
- Four configurable data stream formats
- FTP server for transfer of data to and from the 1280
- Built-in web server for remote access, systems integration and data monitoring
- Up to eight scales supporting five scale types:
  - Analog load cell scales
  - Total scales
  - Serial scales
  - Program scales
  - iQUBE²® scales
- Multi-range/interval weighing functions
- Eight digital I/O for control and pulse count
- 100 setpoints, 18 configurable setpoint types

### Approvals

## Specifications

**Power:**
AC voltages: 100-240 VAC; 50-60 Hz
DC voltages: 11-30 VDC
Consumption: 60W

**Excitation Voltage:**
10 ± 0.5 VDC
16 x 350Ω or 32 x 700Ω load cells per A/D card

**Analog Signal Input Range:**
-60 mV to 60 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz–120 Hz
1.0 µV/graduation recommended

**A/D Sample Rate:**
7.5 to 960 Hz, software selectable

**Resolution:**
Internal: 8 million counts/8,000,000
Display: 1,000,000

**System Linearity**
± 0.01% full scale

**Digital I/O:**
Eight I/O channels on CPU board
Optional 24-channel I/O expansion boards

**Communication Ports:**
Port 1 & 2: Full duplex RS-232 with CTS/RTS, RS-422/485
Baud Rate: 1200 to 115200
Port 3: USB 2.0 Device (Micro)
USB Host: (2) Type A Connectors max 500 mA
Ethernet: Wired 10/100 Auto-MDX
Ethernet: Wireless 802.11 b/g/n 2.4GHz

**Onboard:**
Selectable filters: Three stage, Adaptive or Damping
Embedded Linux® OS
8 GB eMMC (system use)
1 GB DDR3 RAM
460 MB onboard database (SQLite) storage
Up to 32 GB micro SD card (sold separately)

**Display:**
Seven-inch, 800 x 480 pixel, TFT graphical color, 500 or 1,000 NIT
Twelve-inch, 1280 x 800 pixel, TFT graphical color, 1,500 NIT

**Keys/Buttons:**
22-key membrane panel, tactile buttons, on-screen keyboard for text and numeric entry, USB port for flash drive, keyboard and printer

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: -4°F to 131°F (-20°C to 55°C)

**Weight:**
Universal enclosure: 11 lb (4.9 kg)
Panel mount enclosure: 8 lb (3.6 kg)
Wall mount enclosure: 23 lb (10.4 kg)
Panel mount 7 in touch-only: 7 lb (3.1 kg)
Panel mount 12 in touch-only: 10 lb (4.5 kg)

**Rating/Material:**
Stainless steel 304 enclosure
Universal: IP69K
Wall mount: IP66
Panel mount: IP69K, NEMA Type 4X and 12

**Warranty:**
Two-year limited warranty

**EMC Immunity:**
EN 50082 Part 2 IEC
EN 61000-4-2, 3, 4, 5, 6, 8, 11

**Approvals:**
NTEP CC 15-001/Class III/IIIL 10,000d
Measurement Canada AM-5980C, Class III/III HD 10,000d
OIML R76/2006-NL1-16.04
Class III/IIII 10,000d
EU Test Certificate TC8596
UL/cUL Listed (universal, wall mount)
UL/cUL Recognized (panel mount)
CE Marked



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# 1280 Enterprise Series

Programmable Color Touchscreen Weight Indicator/Controller




*7-inch model with keypad*

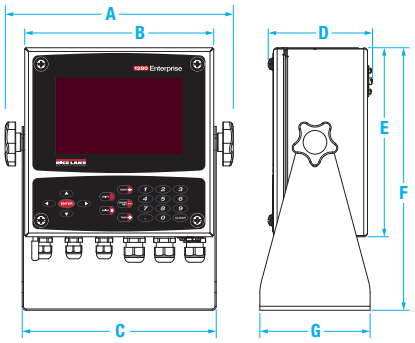



*7-inch touch-only model*

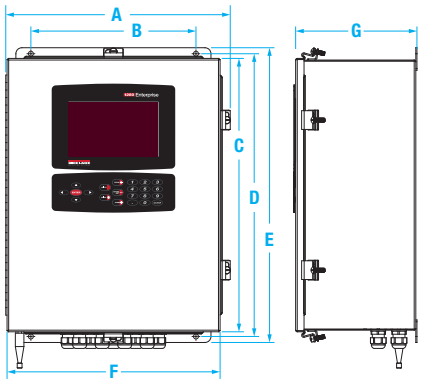



*12-inch touch-only model*

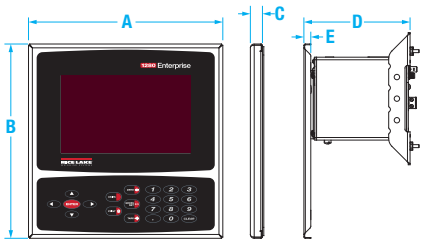
## Numeric Keypad Models:




*1280-2*




*1280-3*



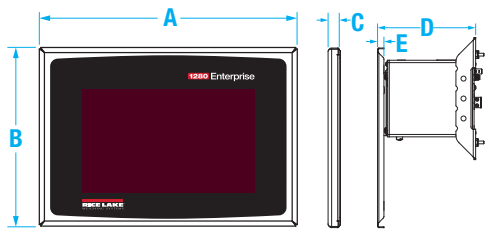

*1280-4*

| Universal (1280-2) Dimensions | | | |
|---|---|---|---|
| A | 10.86 in (276 mm) | B | 9.00 in (229 mm) |
| C | 9.24 in (235 mm) | D | 4.97 in (126 mm) |
| E | 9.00 in (229 mm) | F | 12.50 in (318 mm) |
| G | 5.25 in (133 mm) | | |

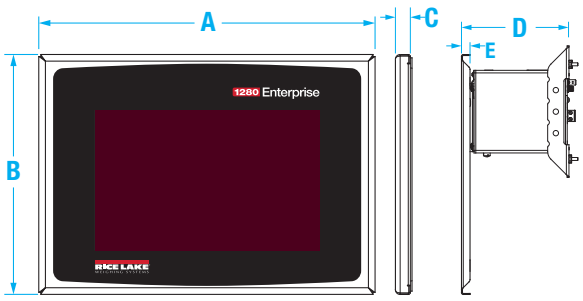
| Wall Mount (1280-3) Dimensions | | | |
|---|---|---|---|
| A | 14.92 in (379 mm) | B | 11 in (279 mm) |
| C | 18.22 in (463 mm) | D | 18.84 in (479 mm) |
| E | 19.64 in (499 mm) | F | 14.20 in (361 mm) |
| G | 8.08 in (205 mm) | | |

| Panel Mount (1280-4) Dimensions | | | |
|---|---|---|---|
| A | 9.00 in (229 mm) | B | 9.00 in (229 mm) |
| C | 0.58 in (15 mm) | D | 5.34 in (136 mm) |
| E | 0.32 in (8 mm) | | |

## Touch-only Models:




*1280-5*




*1280-6*

| 7-inch Touch-only (1280-5) Dimensions | | | |
|---|---|---|---|
| A | 9.00 in (229 mm) | B | 6.22 in (158 mm) |
| C | 0.58 in (15 mm) | D | 5.34 in (136 mm) |
| E | 0.32 in (8 mm) | | |

| 12-inch Touch-only (1280-6) Dimensions | | | |
|---|---|---|---|
| A | 14.00 in (356 mm) | B | 10 in (254 mm) |
| C | 0.58 in (15 mm) | D | 5.34 in (136 mm) |
| E | 0.32 in (8 mm) | | |



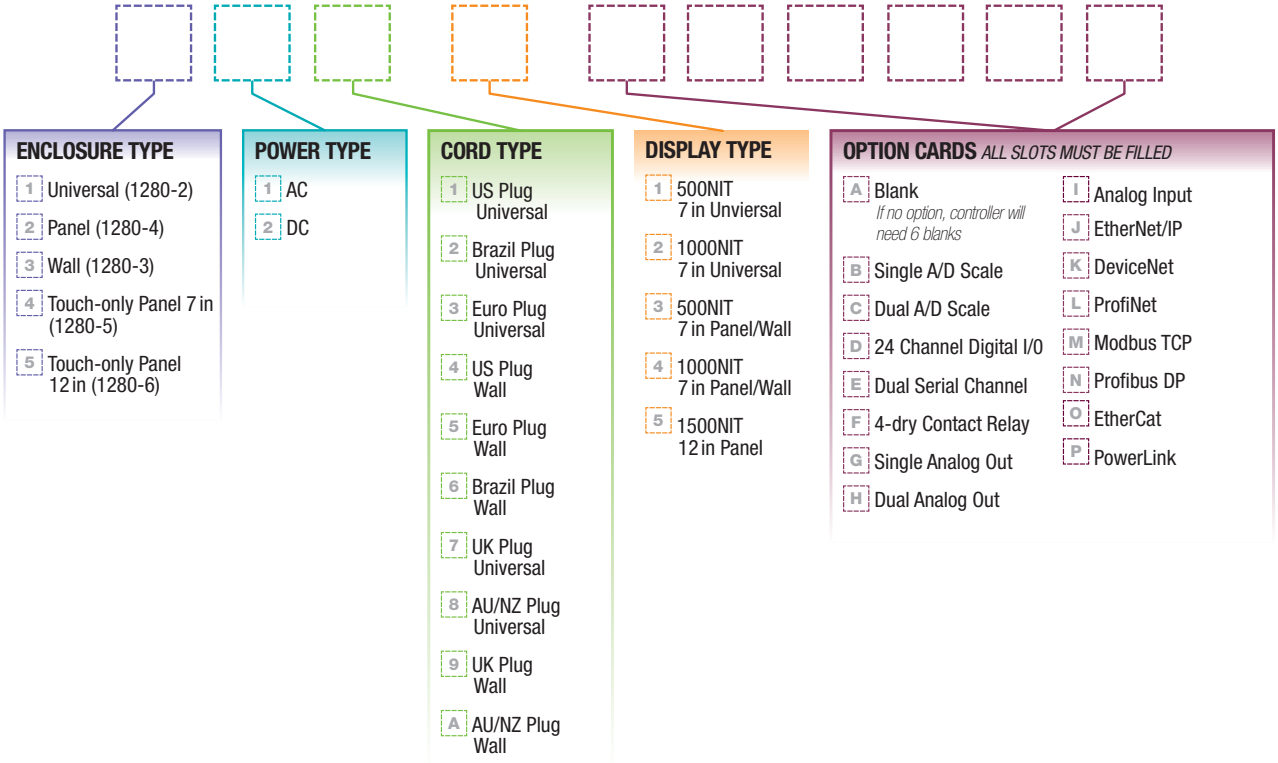
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# 1280 Enterprise Series

Programmable Color Touchscreen Weight Indicator/Controller

## Generate a 1280 Enterprise Series Model Reference Code

This reference number can be used at time of ordering.




## Part Number

| Part # | Reference # | Description | Power | Display | Option Installed | Price |
|---|---|---|---|---|---|---|
| **Universal Enclosure with 500 NIT Display (1280-2)** | | | | | | |
| **171427** † | 1111BAAAAA | 1280 Universal | 115 VAC | 500 NIT | Single Scale Card | $3,100.00 |
| **171441** †† | 1131BAAAAA | 1280 Universal | 100-240 VAC | 500 NIT | Single Scale Card | $3,100.00 |
| **171662** † | 1111CAAAAA | 1280 Universal | 115 VAC | 500 NIT | Dual Scale Card | $3,250.00 |
| **172188** †† | 1131CAAAAA | 1280 Universal | 100-240 VAC | 500 NIT | Dual Scale Card | $3,250.00 |
| **Panel Mount Enclosure with 500 NIT Display (1280-4)** | | | | | | |
| **171663** | 21-3BAAAAA | 1280 Panel Mount | 100-240 VAC | 500 NIT | Single Scale Card | $2,900.00 |
| **172186** | 21-3CAAAAA | 1280 Panel Mount | 100-240 VAC | 500 NIT | Dual Scale Card | $3,050.00 |
| **Wall Mount Enclosure with 500 NIT Display (1280-3)** | | | | | | |
| **173673** † | 3143BAAAAA | 1280 Wall Mount | 115 VAC | 500 NIT | Single Scale Card | $3,350.00 |
| **174143** †† | 3153BAAAAA | 1280 Wall Mount | 100-240 VAC | 500 NIT | Single Scale Card | $3,350.00 |
| **174144** † | 3143CAAAAA | 1280 Wall Mount | 115 VAC | 500 NIT | Dual Scale Card | $3,500.00 |
| **174145** †† | 3153CAAAAA | 1280 Wall Mount | 100-240 VAC | 500 NIT | Dual Scale Card | $3,500.00 |
| **Wall Mount Enclosure with 1000 NIT Display (1280-3)** | | | | | | |
| **172184** † | 3144BAAAAA | 1280 Wall Mount | 115 VAC | 1,000 NIT | Single Scale Card | $3,450.00 |
| **172185** †† | 3154BAAAAA | 1280 Wall Mount | 100-240 VAC | 1,000 NIT | Single Scale Card | $3,450.00 |
| **173806** † | 3144CAAAAA | 1280 Wall Mount | 115 VAC | 1,000 NIT | Dual Scale Card | $3,600.00 |
| **172187** †† | 3154CAAAAA | 1280 Wall Mount | 100-240 VAC | 1,000 NIT | Dual Scale Card | $3,600.00 |
| **Touch-only 7 inch with 500 NIT Display (1280-5)** | | | | | | |
| **186618** | 41-3BAAAAA | 1280 Touch-only 7 in | 100-240 VAC | 500 NIT | Single Scale Card | $2,900.00 |
| **Touch-only 12 inch with 1500 NIT Display (1280-6)** | | | | | | |
| **186465** | 51-5BAAAAA | 1280 Touch-only 12 in | 100-240 VAC | 1,500 NIT | Single Scale Card | $3,600.00 |


*† US plug (NA) - Type B*


*†† Euro Plug - Type E*


*(Brazil) - Type N*


*††† BS1363 (UK) - Type G*


*†††† AS 3112 (Australian) - Type I*



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## Single A/D Scale



**Excitation Voltage:**
10 VDC bi-polar, 4 or 6 wire sensing
16 x 350 ohms per channel
**Analog Input Signal:**
-10 to +40 mV

| Part # | Description | Price |
|---|---|---|
| 164085 | Single scale A/D | $360.00 |
| 166957 | A/D sealing kit | $12.00 |

## Dual A/D Scale



**Excitation Voltage:**
10 VDC bi-polar, 4 or 6 wire sensing
8 x 350 ohms per channel
**Analog Input Signal:**
-10 to +40 mV

| Part # | Description | Price |
|---|---|---|
| 164683 | Dual scale A/D | $510.00 |
| 166957 | A/D sealing kit | $12.00 |

## Digital I/O



24 channels, configurable as inputs or outputs
Inputs: 5 VDC max, active low; Outputs: 20 mA max per channel, active low; 5 VDC source available: 500 mA max

| Part # | Description | Price |
|---|---|---|
| 164684 * | Digital I/O | $310.00 |
| 170008 | DIO adapter, includes 60 pin flat ribbon cable, 24 in | $125.00 |
| 170009 | DIO adapter, includes 60 pin round cable, 60 in | $150.00 |
| 170736 | DIO adapter, includes 60 pin cable and cord grip, 60 in | $150.00 |

** 24 I/O ribbon cable required.*

## Dual Serial Channel



Two-channel, full duplex RS-232 with CTS/RTS, RS-485 or RS-422, 1200-115200 baud

| Part # | Description | Price |
|---|---|---|
| 164685 | Dual serial channel | $360.00 |

## Single Analog Out



16 bit, voltage output 0-10 VDC,current output 0-20mA, 4-20mA

| Part # | Description | Price |
|---|---|---|
| 165366 | Single analog out | $360.00 |

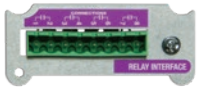
## Dual Analog Out



16 bit, voltage output 0-10 VDC, current output 0-20mA, 4-20mA

| Part # | Description | Price |
|---|---|---|
| 164686 | Dual analog out | $510.00 |

## Relay Card



Relay four-dry contact, max current 3A @ 30 VDC, 3A @250VAC

| Part # | Description | Price |
|---|---|---|
| 164689 | Relay card | $410.00 |

## Analog Input



**Analog Input Signal:**
±10VDC, ±100mV, 0-20mA

| Part # | Description | Price |
|---|---|---|
| 164687 | Dual analog input | $610.00 |

## Data Exchange with PLC/DCS Systems

### EtherNet/IP



| Part # | Description | Price |
|---|---|---|
| 165792 | EtherNet/IP | $575.00 |

### DeviceNet



| Part # | Description | Price |
|---|---|---|
| 165793 | DeviceNet | $575.00 |

### Profinet



| Part # | Description | Price |
|---|---|---|
| 165794 | Profinet | $575.00 |

### Modbus TCP



| Part # | Description | Price |
|---|---|---|
| 165796 | Modbus TCP | $575.00 |

### Profibus DP



| Part # | Description | Price |
|---|---|---|
| 165795 | Profibus DP | $575.00 |

### EtherCAT



| Part # | Description | Price |
|---|---|---|
| 179533 | EtherCAT | $575.00 |

### PowerLink



| Part # | Description | Price |
|---|---|---|
| 182319 | PowerLink | $800.00 |




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# 1280 Enterprise Series

Programmable Color Touchscreen Weight Indicator/Controller

## Options/Accessories

*To have your option factory installed, please specify when placing your order.*

| Part # | Description | Price |
|---|---|---|
| **Manuals and Software** | | |
| **77925** | Revolution scale software | $35.00 |
| **166046** | Manual, Operation | $25.00 |
| **167659** | Manual, Technical | $35.00 |
| **167660** | CD, 1280 Documents | $25.00 |
| **164939** | 8 GB Micro SD card with SD and USB adapter | $23.00 |
| **173046** | USB flash drive, 1 GB | $10.00 |
| **Extended Display Cable Length for Touch Only Models** | | |
| **182600** | Display cable for 7 in (500 NIT) touch-only, 5 ft length | $125.00 |
| **182601** | Display cable for 7 in (500 NIT) touch-only, 10 ft length | $150.00 |
| **187489** | Display cable for 7 in (1,000 NIT) touch-only, 10 ft length | $150.00 |
| **180027** | Display cable for 12 in touch-only, 5 ft length | $150.00 |
| **180028** | Display cable for 12 in touch-only, 10 ft length | $150.00 |
| **Extended Touch Cable Length for Touch Only Models** | | |
| **180744** | Touch cable for touch-only, 5 ft length | $100.00 |
| **180745** | Touch cable for touch-only, 10 ft length | $100.00 |

## Primary Component Parts

| Part # | Description | Price |
|---|---|---|
| **Displays** | | |
| **163400** | 7 in 500 NIT display | $325.00 |
| **163399** | 7 in 1,000 NIT display | $425.00 |
| **182992** | 12 in 1,500 NIT display | $825.00 |
| **Boards** | | |
| **179992** | CPU board assembly includes face plate and fan plate | $1,045.00 |
| **160758** | Back plane board | $200.00 |
| **Power Supplies** | | |
| **162693** | AC power supply board | $170.00 |
| **162694** | DC power supply board | $170.00 |
| **Overlays** | | |
| **164121** | Keypad, for panel & wall mount | $70.00 |
| **164120** | Touchscreen, for panel & wall mount | $125.00 |
| **161731** | Keypad, for universal | $70.00 |
| **161730** | Touchscreen, for universal | $125.00 |
| **178498** | Touchscreen, for 7 in touch-only panel mount | $200.00 |
| **176126** | Touchscreen, for 12 in touch-only panel mount | $400.00 |
| **178161** | Clear protective overlay display (pack of 5) | $60.00 |
| **178163** | Clear protective overlay keypad (pack of 5) | $60.00 |

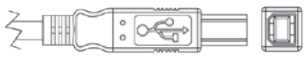
## Cables and Receptacles

*To have your option factory installed, please specify when placing your order.*

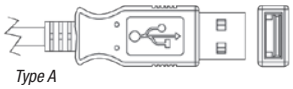
| Part # | Connector Type | | Length | Price |
|---|---|---|---|---|
| **USB Cables** *(Connector is a male plug)* | | | | |
| **79074** | **A** UNSEALED | **B** UNSEALED | 2 m | $30.00 |
| **124700** | **A** SEALED | **B** SEALED | 3 m | $85.00 |
| **126477** | **A** SEALED | **A** UNSEALED | 3 m | $85.00 |
| **124701** | **A** SEALED | **B** UNSEALED | 3 m | $85.00 |
| **124702** | **B** SEALED | **A** UNSEALED | 3 m | $85.00 |
| **152434** | **A** UNSEALED | **Micro A** UNSEALED | 2 m | $15.00 |
| **USB Receptacles** *(Receptacle is a socket)* | | | | |
| **176790 Panel Mount** | **A** SEALED | **A** UNSEALED | 0.75 m | $100.00 |
| **126476 Wall Mount** | **A** SEALED | **A** UNSEALED | 0.5 m | $85.00 |
| **172735 Universal** | **A** SEALED | **A** UNSEALED | 0.25 m | $85.00 |
| **Ethernet Cables** | | | | |
| **72697** | RJ-45 UNSEALED | RJ-45 UNSEALED | 2 m | $35.00 |
| **124706** | RJ-45 SEALED | RJ-45 SEALED | 3 m | $85.00 |
| **124707** | RJ-45 SEALED | RJ-45 UNSEALED | 2 m | $85.00 |
| **Ethernet Receptacles** *(Receptacle is a socket)* | | | | |
| **176789** | RJ-45 SEALED | | 0.75 m | $100.00 |
| **172734** | RJ-45 SEALED | | 0.5 m | $85.00 |
| **126353*** | RJ-45 SEALED | | 0.25 m | $85.00 |
| **Cable and Receptacle Accessories** | | | | |
| **124694** | Cover for sealed receptacles | | | $12.00 |
| **124689** | Cover for flash driver mounts on sealed receptacle | | | $23.00 |

**Panel mount, wall mount, and universal models*

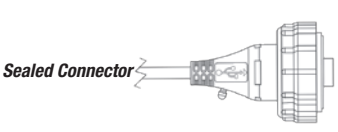
***Unsealed Connectors***



*Type B*



*Type A*






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## Relays

| Part # | Voltage | Description | Price |
|---|---|---|---|
| **Grayhill 2-Channel Input relay** | | | |
| **52318** | 120VAC | 70L-IAC | $54.00 |
| **52319** | 240VAC | 70L-IACA | $54.00 |
| **52332** | 2.5-28VDC | 70L-IDCB | $54.00 |
| **52331** | 10-32VDC | 70L-IDC | $54.00 |
| **Grayhill 2-Channel Output relay** | | | |
| **52316** | 120-140VAC | 70L-OAC | $54.00 |
| **52317** | 240-280VAC | 70L-OACA | $54.00 |
| **84698** | 120-140VAC | 70L-OAC-L | $76.00 |
| **84699** | 240-280VAC | 70L-OACA-L | $76.00 |
| **71377** | 0-200VDC/VAC | 70L-ODC5R, (N/O) dry contact | $98.00 |
| **71376** | 3-60VDC | 70L-ODC | $76.00 |
| **OPTO 22 1-Channel Input relay** | | | |
| **15972** | 90-140VAC | G4IAC5-L (N/O), yellow | $35.00 |
| **36631** | 180-280VAC/VDC | G4IAC5A (N/O), yellow | $35.00 |
| **15969** | 10-32VDC | G4IDC5 (N/O), white | $35.00 |
| **OPTO 22 1-Channel Output relay** | | | |
| **15971** | 115 VAC | G4OAC5 (N/O), black | $35.00 |
| **22847** | 115/230 VAC | G4OAC5A5 (N/C), black | $35.00 |
| **36632** | 115/230 VAC | G4OAC5A (N/O), black | $35.00 |
| **15970** | 100 VDC | G4ODC5R, (N/O) dry contact, red | $35.00 |
| **22848** | 100 VDC | G4ODC5R5, (N/C) dry contact, red | $35.00 |

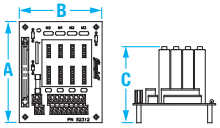
## Miscellaneous Parts

| Part # | Description | Price |
|---|---|---|
| **Cables for digital I/O** | | |
| **170008** | 60-pin flat ribbon with 50-pin adapter, 24 in | $125.00 |
| **170009** | 60-pin round with 50-pin adapter, 60 in | $150.00 |
| **170736** | 60-pin round with 50-pin adapter and cord grip, 60 in | $150.00 |
| **Grayhill Misc.** | | |
| **54215** | Fuse, 3.15 amp, Grayhill | $4.00 |
| **46189** | Jumper strap, 10 position for Grayhill | $5.00 |
| **Opto 22 Misc.** | | |
| **26834** | Fuse, 1A 250V (for PN 15970 and PN 22848) | $7.50 |
| **21735** | Fuse, 4A 250V (for PN 15971, PN 22847 and PN 36632) | $10.00 |
| **16478** | Quencharc arc suppressor | $11.00 |
| **101923** | FRP enclosure with Opto four-channel rack | $235.00 |
| **99032** | Adapter plate, for four-channel Opto rack 33490 | $5.00 |

## Relay Racks

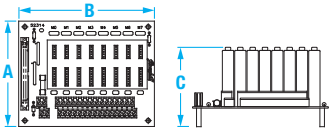
| Part # | Description | Price |
|---|---|---|
| **Grayhill 8-Channel** (4 slots) | | |
| **52312** | Panel and wall mount, requires 50-pin flat or round ribbon cable | $178.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 4.27 in (108 mm) | B | 3.5 in (89 mm) | C | 3.22 in (82 mm) |



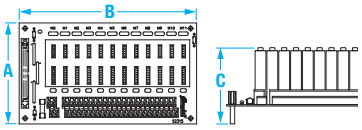

| Grayhill 16-Channel (8 slots) | | |
|---|---|---|
| **52314** | Panel and wall mount, requires 50-pin flat or round ribbon cable | $262.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 4.27 in (108 mm) | B | 5.50 in (140 mm) | C | 3.22 in (82 mm) |



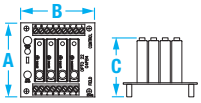

| Grayhill 24-Channel (12 slots) | | |
|---|---|---|
| **52315** | Panel and wall mount, requires 50-pin flat or round ribbon cable | $398.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 4.27 in (108 mm) | B | 7.50 in (191 mm) | C | 3.22 in (82 mm) |



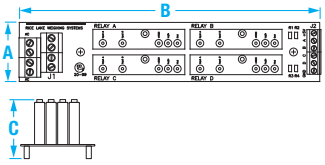

| OPTO 22 4-Channel | | |
|---|---|---|
| **15973** | Four-channel relay rack | $100.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 3.25 in (83 mm) | B | 3.25 in (83 mm) | C | 2.32 in (59 mm) |



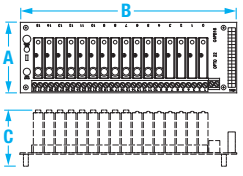

| OPTO 22 4-Channel | | |
|---|---|---|
| **45408** | Four-channel relay rack (non UL) | $150.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 1.20 in (30 mm) | B | 6.11 in (155 mm) | C | 2.32 in (59 mm) |



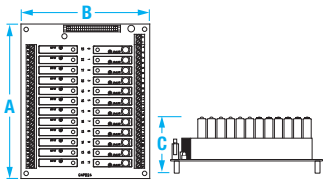

| OPTO 22 16-Channel | | |
|---|---|---|
| **33206** | 16-channel relay rack, ribbon cable connection | $185.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 3.25 in (83 mm) | B | 10.0 in (254mm) | C | 2.32 in (59 mm) |




| OPTO 22 24-Channel | | |
|---|---|---|
| **33205** | 24-channel relay rack, ribbon cable connection | $315.00 |

| Dimensions | | | | | |
|---|---|---|---|---|---|
| A | 7.50 in (83 mm) | B | 6.25 in (83 mm) | C | 2.32 in (59 mm) |







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# 920i® User Programs




## Standard Features

- Pre-programmed software to carry out specific weighing functions
- Utilize Rice Lake's iRite™ programming language
- For use with all Rice Lake 920i models (hardware requirements may apply)
- Available pre-installed with purchase of new equipment, or via iRev™ for installation on existing 920i models
- Fully customizable

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **153146** | Short axle weighing program | $595.00 |
| **SZ99999** | Truck in/out with report | $395.00 |
| **77297** | Truck in/out with products/customers/trucks and reports | $495.00 |
| **156886** | Grain program with shrink calculation | $395.00 |
| **156959** | Dual kiosk truck in/out single scale | $1,050.00 |

## Dual Kiosk Truck In/Out Single Scale

PN 156959:

System consists of a bidirectional single platform truck scale, inbound truck kiosk and outbound truck kiosk. Inbound (if two outbound kiosks are used) and outbound tickets with transaction storage of each weighment.

**Suggested Hardware:**

- (2) PN 119687 Inbound/Outbound kiosk
- PN 119689 A/D kiosk option

## Grain Program with Shrink Calculator

PN 156886:

This custom application for the 920i supports weighing trucks of grain. Up to 200 grain types, associated divisors and accumulator can be stored. Up to 500 accounts and 1,000 trucks can be stored.

**Suggested Hardware:**

- PN 67527 920 single channel A/D
- PN 67600 1M memory card
- PN 23113 Epson TM-U295 ticket printer
- PN 93359 PS2 keyboard

## Truck In/Out with Products/ Customers/Trucks and Reports

PN 77297:

This program supports truck in/ out weighing program for manual truck transactions using Rice Lake Weighing Systems' 920i digital weight indicator. Stored IDs allow you to keep a database of truck IDs, customer, product, project information and weigh-in weights in the indicator's memory. Parameters are accessed by simply scrolling through the Supervisor main menu using the down arrow on the 920i. The 920i can automatically store up to 100 truck IDs and tare weights, 950 customers, 1,000 products and 1,000 projects.

**Suggested Hardware:**

- PN 67527 920 single channel A/D
- PN 67600 1 MB memory card
- PN 23113 Epson TM-U295 ticket printer
- PN 93359 PS/2 keyboard

## Short Axle Weighing Program

PN 153146:

920i custom program will interface to a short axle scale and direct each axle across the scale using traffic lights.

**Suggested Hardware:**

- PN 67527 920 single channel A/D
- PN 23113 Epson TM-U295 ticket printer
- PN 101923 FRP box with 4 channel relay rack, for traffic light control
- PN 23146 Traffic light kit
- PN 15971 AC output relays for above (2 needed)
- PN 103181 LaserLight remote display (optional)
- PN 167093 LaserLight 2 remote display (optional)

## Truck In/Out with Report

PN SZ99999:

920i program allows trucks to weigh in and out (saves inbound weight after weighing out and has value swapping) and stores the transaction after each weigh out with truck ID, gross, tare and net. Transactions may be printed or cleared at any time through the Setup menu. An HID scanner is available as a peripheral piece of hardware.

**Suggested Hardware:**

- PN 119687 Outbound kiosk
- PN 119689 A/D kiosk option
- PN 119743 HID kiosk option



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**Manufacturer-Approved**
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

## 101 Basic Filler
Place an empty container on the scale. Automatically fill the container to a preset weight.
Remove the container from the scale. Replace it on the scale with an empty container and repeat the process.

## 102 Automatic Fill, Automatic Discharge
Place an empty container under the scale. Automatically fill the scale to a preset weight. Discharge the scale into the container. Remove the container from under the scale. Replace it under the scale with another empty container and repeat the process.

## 103 Loss-In-Weight Filler
Dispense preset net weight quantities from the scale until either low level or less-than-preset gross weight is achieved. Then refill to high level.

## 104 Loss-In-Weight Filler
Product supply containers are placed on the scale. Net weight quantities are dispensed from the containers until empty. When containers empty in the middle of a dispense cycle, the cycle is paused and allowed to resume where it left off when the empty containers are replaced on the scale with filled ones.

## 201 Four Ingredient Dual Speed or Eight Ingredient Single Speed Batcher
Place empty container on scale, automatically fill multiple ingredients in a sequential order to preset formula weights. Remove the container, replace with empty and repeat.

## 202 Four Ingredient Dual Speed or Eight Ingredient Single Speed With Discharge
Fill tank or hopper with multiple ingredients in a sequential order then empty into a vessel below.

## Standard Features
- Wall mount stainless steel enclosure
- Application program 101, 102, 103, 104, 201, 202
- Front panel switches E-Stop, Reset/Resume, Start
- Soft keys for presets, CN#, ID#, formula#, totals
- Accumulating subtotal & total registers
- Transmitted audit trail
- Digital I/O board
- Relay rack and SSR relay outputs

## Approvals
UL LISTED

| Standard Switches | 101 | 102 | 103 | 104 | 201 | 202 |
|---|---|---|---|---|---|---|
| E-Stop mushroom | X | X | X | X | X | X |
| Reset/resume | X | X | X | X | X | X |
| Start | X | X | X | X | X | X |
| Discharge | - | X | - | - | - | X |

| Standard Outputs | 101 | 102 | 103 | 104 | 201 | 202 |
|---|---|---|---|---|---|---|
| Fast fill** | X | X | X | X | X | X |
| Slow fill*** | X | X | X | X | X | X |
| Fill complete* | OPT | OPT | X | X | OPT | OPT |
| Zero tolerance | OPT | OPT | - | - | OPT | OPT |
| Discharge | - | X | - | - | - | X |
| Refill | - | - | X | - | - | - |
| Refill complete | - | - | OPT | - | - | - |
| Slow cycle | - | - | OPT | X | - | - |

** Dispense for 103 and 104*
*** Fast Fill Ingredient 1 201/202*
**** Fast Fill Ingredient 2 201/202*
*920i Flexweigh systems are designed for 120 VAC line voltage. If the application requires 220 VAC or DC control voltage, please consult with sales before placing an order.*




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# 920i® FlexWeigh Systems

Fillers/Batchers

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **120320** | 920i FlexWeigh Systems 101 | 23 lb | $3,545.00 |
| **199060** | 920i FlexWeigh Systems 101, includes manual/auto and jog switches | 23 lb | $3,495.00 |
| **120321** | 920i FlexWeigh Systems 102 | 23 lb | $3,650.00 |
| **199061** | 920i FlexWeigh Systems 102, includes manual/auto and jog switches | 23 lb | $3,845.00 |
| **120322** | 920i FlexWeigh Systems 103 | 23 lb | $3,600.00 |
| **120323** | 920i FlexWeigh Systems 104 | 23 lb | $3,545.00 |
| **Consult** | 920i FlexWeigh Systems 201 | 23 lb | $3,650.00 |
| **Consult** | 920i FlexWeigh Systems 202 | 23 lb | $3,865.00 |
| **Relays** | | | |
| **52312** | Eight-channel relay rack (4 slots) | | $178.00 |
| **52316** | Two-channel output relay, 120 - 140 VAC at 2A | | $54.00 |
| **52317** | Two-channel output relay, 240-280 VAC at 2A | | $54.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **120491** | 920i FlexWeigh Systems 101 manual | $25.00 |
| **120493** | 920i FlexWeigh Systems 102 manual | $25.00 |
| **124473** | 920i FlexWeigh Systems 103 manual | $25.00 |
| **120496** | 920i FlexWeigh Systems 104 manual | $25.00 |
| **152146** | 920i FlexWeigh Systems 201/202 manual | $25.00 |

*To have your option factory installed, please specify when placing your order.*

## Optional Switches (Installed Price: $150.00)

| | Switch Part # | Legend Part # | 101 | 102 | 103, 104 | 201 | 202 |
|---|---|---|---|---|---|---|---|
| Selector 3 position | 94296 | | | | | | |
| Manual/ Off/ Auto | | 121035 | X | X | X | X | X |
| Manual Ingredient Select | | | | | | X | X |
| Push-button | 94276 | | | | | | |
| Fill | | 121036 | X | X | | X | X |
| Discharge | | 121037 | | X | | | X |
| Dispense | | 121038 | | | X | | |
| Refill | | 121039 | | | X | | |
| Maintained/Off/Spring Return | 94299 | | | | | | |
| Fill On/-/Jog | | 121040 | X | X | | X | X |
| Fill Fast/-/Slow | | 121041 | X | X | | X | X |
| Discharge On/-/Jog | | 121043 | | X | | | X |
| Discharge Fast/-/Slow | | 121044 | | X | | | X |
| Dispense On/-/Jog | | 121046 | | | X | | |
| Dispense Fast/-/Slow | | 121048 | | | X | | |
| Refill On/-/Jog | | 121049 | | | X | | |
| Manual Feed | | — | | | | X | X |

## Optional Front Panel Lights (Installed Price: $150.00)

| | Lamp | Legend | 101, 102 | 103 | 104 | 201 | 202 |
|---|---|---|---|---|---|---|---|
| Ready | 94289 Green | 121051 | X | | | X | X |
| Fill Complete | 94290 Red | 121052 | X | | | X | X |
| Filling | 98760 Amber | 121053 | X | | | | |
| Filling Fast | 98760 Amber | 121054 | X | | | | |
| Filling Slow | 98760 Amber | 121055 | X | | | | |
| Discharging | 94292 Blue | 121056 | X | | | X | X |
| Discharging Fast | 94292 Blue | 121057 | X | | | | |
| Discharging Slow | 94292 Blue | 121058 | X | | | | |
| Dispensing | 98760 Amber | 121059 | | X | X | | |
| Dispensing Fast | 98760 Amber | 121060 | | X | X | | |
| Dispensing Slow | 98760 Amber | 121061 | | X | X | | |
| Dispensing Complete | 94290 Red | 121062 | | X | X | | |
| Refilling | 94292 Blue | 121063 | | X | | | |
| Refill Complete | 94290 Red | 121064 | | X | | | |
| Low Supply | 94290 Red | 121065 | | X | | | |
| Fill Time Alarm | 94290 Red | 121066 | | X | X | | |
| Feeding (1-4) | 98760 Amber | — | | | | X | X |
| Slow Cycle | 94290 Red | — | X | X | X | | |



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## 107 Shipping Bulkweigher

The 920i FlexWeigh 107 is designed for basic shipping-mode bulkweighing applications. In shipping mode, a scale is loaded and discharged repetitively until the accumulated weight meets the overall target value.

## 108 Receiving Bulkweigher

The 920i FlexWeigh 108 is designed for basic receiving mode bulkweighing applications. In receiving mode, a scale is loaded and discharged until there is no more product to receive. To end the cycle, the End Cycle button is pressed.

## 109 Ship/Receive Bulkweigher

The 920i FlexWeigh 109 allows the user to select which mode of operation to use. This is done with a three-position locking key switch.

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **151848** | 920i FlexWeigh Systems 107/108/109 manual | $25.00 |

*To have your option factory installed, please specify when placing your order.*

## Optional Switches
### Installed Price: $150.00

| | Type | 107 | 108 | 109 |
|---|---|---|---|---|
| Manual/Off/ Auto | 3 position key selector | X | X | X |
| Man Fill On/-/Jog | Maintained/Off/ Spring Return | | X | X |
| Man Disch On/-/Jog | | | X | X |



**Manufacturer-Approved**
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

## Standard Features

- Wall mount stainless steel enclosure
- Application program 107,108,109
- Front panel switches E-Stop, Start/Resume, End Cycle, Ship/Recv (only 109)
- Softkeys for presets, ID1 and ID2
- Accumulating weight streaming
- Fill and discharge sequence controls
- Fill and discharge gate monitoring
- Printer online checking
- Weigh and surge hopper overfill monitoring
- Transmitted audit trail
- Digital I/O board
- Relay rack and SSR relay outputs

### Approvals

NTEP

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| Standard Switches | 107 | 108 | 109 |
|---|---|---|---|
| E-Stop mushroom | X | X | X |
| Start/Resume | X | X | X |
| End cycle | X | X | X |
| Ship/Recv | - | - | X |

| Standard Outputs | 107 | 108 | 109 |
|---|---|---|---|
| Slow cycle alarm | OPT | OPT | OPT |
| Gate alarm | OPT | OPT | OPT |
| Scale over fill alarm | OPT | OPT | OPT |
| Lower surge alarm | OPT | OPT | OPT |
| Printer alarm | OPT | OPT | OPT |
| Open fill gate | X | X | X |
| Open discharge gate | X | X | X |

| Standard Inputs | 107 | 108 | 109 |
|---|---|---|---|
| Fill gate closed | X | X | X |
| Discharge gate closed | X | X | X |
| Surge hopper not full | X | X | X |
| Weigh hopper not full | X | X | X |
| Printer online | X | X | X |

## Options

- Pilot lights for error indication
- Manual override switches

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Consult** | 920i FlexWeigh Systems 107 | 23 lb | $5,145.00 |
| **Consult** | 920i FlexWeigh Systems 108 | 23 lb | $5,145.00 |
| **Consult** | 920i FlexWeigh Systems 109 | 23 lb | $5,460.00 |





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# 920i® FlexWeigh Systems

Flow Rate Controllers



**Manufacturer-Approved**
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

## Standard Features

- Wall mount stainless steel enclosure
- Application program 105, 106, 205
- Front panel switches E-Stop, Reset/Resume, Start
- Softkeys for presets, CN#, ID#, formula#, totals
- Accumulating subtotal & total registers
- Transmitted audit trail
- Digital I/O board
- Relay rack and SSR relay outputs

## Approvals

UL LISTED

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Consult** | 920i FlexWeigh Systems 105 | 23 lb | $3,795.00 |
| **Consult** | 920i FlexWeigh Systems 106 | 23 lb | $3,875.00 |
| **Consult** | 920i FlexWeigh Systems 205 | 23 lb | $4,135.00 |
| **Relays** | | | |
| **52312** | Eight-channel relay rack (4 slots) | | $178.00 |
| **52316** | Two-channel output relay, 120 - 140 VAC at 2A | | $54.00 |
| **52317** | Two-channel output relay, 240-280 VAC at 2A | | $54.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | 920i FlexWeigh Systems 105 manual | $25.00 |
| **Consult** | 920i FlexWeigh Systems 106 manual | $25.00 |
| **Consult** | 920i FlexWeigh Systems 205 manual | $25.00 |

*To have your option factory installed, please specify when placing your order.*

# 920i® FlexWeigh Systems

Hand Batching



**Manufacturer-Approved**
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

## Standard Features

- Stainless deep universal mount enclosure
- Application program 211
- Softkeys for presets ID#; Formulas; Accumulating, Subtotal and Total Registers
- Switch for manual confirmation
- 20 ingredient database
- 100 formula database
- Audit trail data output
- Ingredient usage totals

## Approvals

UL LISTED

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Consult** | 920i Flexweigh Systems 211 | 13 lb | $2,675.00 |

### 105 Basic Flow-Rate Controller

Dispense preset net weight quantities at preset flow rate values.

### 106 Loss-In-Weight with Flow-Rate Control and Automatic Refill

Dispense preset net weigh quantities at preset flow rate values with automatic refill when gross weight drops below threshold.

### 205 Eight Ingredient Batcher with Flow-Rate Control Discharge

Batch up to eight ingredients in sequential order to preset formula weights. Discharge to net quantities via preset flow-rate control.

## Standard Switches/Outputs

| Standard Switches | 105 | 106 | 205 |
|---|---|---|---|
| E-Stop mushroom | X | X | X |
| Reset/Resume | X | X | X |
| Start | X | X | X |
| Discharge | - | - | X |

| Outputs | 105 | 106 | 205 |
|---|---|---|---|
| Fast fill** | X | - | X |
| Slow fill*** | X | - | X |
| Fill complete* | X | - | X |
| Zero tolerance | Opt | - | Opt |
| Discharge | X | X | X |
| Refill | - | X | - |
| Refill complete | - | Opt | -- |
| Slow cycle | Opt | Opt | Opt |

** Dispense for 105 and 106*
*** Fast Fill Ingredient 1 205*
**** Fast Fill Ingredient 2 205*

### 211 Manual Batching System

Prompts the user through manual weight additions based on a pre-entered formula



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## Specifications

**Enclosure:**
NEMA Type 4, IP65

**Weight:**
0.98 lb (445 g)

**Keypad:**
On/Off, Zero (100%), Tare, Print, and two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

**Display:**
Six-digit 1.0 in (26.4 mm) LCD

**Units Displayed:**
Pounds, kilograms, tons, metric tons, kilonewtons

**Annunciators:**
Stable, COZ, low battery, peak, net, kg, kN, lb, M, ton, setpoint, function LEDs

**Power:**
Integral lithium ion battery
Universal 115/230 VAC, 50/60 Hz battery charger (NA plug included)

**Operating Time:**
Up to 24 hours of continuous use (15 minute auto-shutoff with non-use)

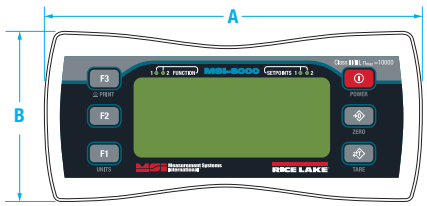
**Operating Temperature:**
-4°F to 140°F (-20°C to 60°C)

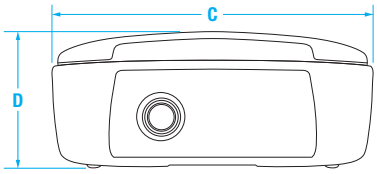
**RF Radio Link:**
2.4 GHz 802.15.4
Communicates with RF 3460, 4260, 7300, 7000 & 7001

**RF Effective Range:**
Typically 100 or more feet (33 m)

**Connector:**
Four-pin Turck connector for charging and RS-232 communication

**Warranty:**
One-year limited warranty







## Standard Features

- Handheld RF remote display with six-digit 1.0 in (26.4 mm) LCD screen
- Membrane keypad for remote control functionality
- User- definable function keys for added versatility
- Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Communicates with RF MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7300 Dyna-Link 2, MSI-7000 and MSI-7001 TranSend™

## Part Number/Price

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **139381** | 503208-0001 | MSI-8000 RF remote display (requires ScaleCore™ equipped MSI-7300, MSI-4260, MSI-3460 and TranSend receivers) | 5 lb | $1,190.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **149549** | 503486-0001 | Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 RF remote display | 3 lb | $135.00 |
| **149550** | 503486-0002 | Universal 115/230 VAC 50/60 Hz (EC plug standard) battery charger for MSI 8000 RF remote display | 1 lb | $130.00 |
| **150964** | 503489-0001 | DB9 female serial interface cable for MSI-8000 RF remote display | 1 lb | $170.00 |
| **151095** | 503506-0001 | Audible alarm | — | $270.00 |
| **182223** | | 12V car charger adapter for MSI-8000 | 1 lb | $115.00 |

| Dimensions | | | |
|---|---|---|---|
| A | 8.00 in (203 mm) | C | 3.85 in (98 mm) |
| B | 3.85 in (98 mm) | D | 1.37 in (35 mm) |





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# MSI-8000HD

Digital Weight Indicator




## Standard Features

- Indicator or RF remote display with six-digit 1.0 in (26.4 mm) LCD screen
- IP68 milled aluminum enclosure
- Membrane keypad for remote-control functionality
- User- definable function keys for added versatility
- Compatible with all ScaleCore™-based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001 TranSend™
- Swivel tilt stand
- NTEP certified configuration

## Approvals

## Options

- Up to 8 configurable relay outputs
- Wi-Fi communications
- Bluetooth® communications
- 802.15.4 Serial RF
- FHSS
- Wired Ethernet

## Specifications

**Enclosure:**
NEMA Type 4, IP68 milled anodized aluminum with O-ring gaskets

**Keypad:**
On/Off, Zero (100%), Tare, Print, and Two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

**Display:**
Six-digit 1.0 in (26.4 mm) LCD

**Units Displayed:**
Pounds, kilograms, tons, metric tons, kilonewtons

**Annunciators:**
Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs
Channels: 1, 2, 3, 4, TTL

**Power:**
90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC
Optional battery power module available

**Operating Temperature:**
-4°F to 140°F (-20°C to 60°C)

**RF Remote Channels:**
Up to four remote sensors, monitored individually, in pairs or sum all (non-A/D version only)

**Service Counters:**
A/D version only

**A/D Inputs:**
Two independent or summing load cell inputs

**Excitation:**
4.8V current limited and over-voltage protected

**Filtering:**
Off, Low, Hi-1, Hi-2

**RF Radio Link:**
2.4 GHz 802.15.4
Compatible with all ScaleCore™-based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001

**RF Effective Range:**
Typically 100 or more feet (33m)

**Data I/O:**
Dual RS-232 comm ports

**Optional Communications:**
Wi-Fi
Bluetooth®
Serial RF (Single Sequence or FHSS)

**Warranty:**
One-year limited

**Approvals:**
NTEP COC#15-110 (-10°C to 40°C)



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **153591** | MSI 8000HD ScaleCore RF/Remote Display/85-265 VAC | 5 lb (2.5 kg) | $1,300.00 |
| **154853** | MSI 8000HD ScaleCore RF/Remote Display/Internal Battery | 5 lb (2.5 kg) | $1,405.00 |
| **160476** | MSI 8000HD ScaleCore RF/Remote Display/7-36 VDC | 5 lb (2.5 kg) | $1,255.00 |
| **159377** | MSI 8000HD ScaleCore RF/Remote Display/18-72 VDC | 5 lb (2.5 kg) | $1,285.00 |
| **159376** | MSI 8000HD ScaleCore RF/Remote Display/9-36 VDC | 5 lb (2.5 kg) | $1,285.00 |
| **158427** | MSI 8000HD Meter/2 A/D Inputs/85-265 VAC (non RF) | 5 lb (2.5 kg) | $1,580.00 |
| **158428** | MSI 8000HD Meter/2 A/D Inputs/Internal Battery (non RF) | 5 lb (2.5 kg) | $1,685.00 |
| **160478** | MSI 8000HD Meter/2 A/D Inputs/7-36 VDC (non RF) | 5 lb (2.5 kg) | $1,405.00 |
| **159381** | MSI 8000HD Meter/2 A/D Inputs/18-72 VDC (non RF) | 5 lb (2.5 kg) | $1,440.00 |
| **159380** | MSI 8000HD Meter/2 A/D Inputs/9-36 VDC (non RF) | 5 lb (2.5 kg) | $1,440.00 |
| **158425** | MSI-8000HD RF Meter/2 A/D Inputs/85-265 VAC | 5 lb (2.5 kg) | $1,595.00 |
| **158426** | MSI-8000HD RF Meter/2 A/D Inputs/Internal Battery | 5 lb (2.5 kg) | $1,735.00 |
| **160477** | MSI 8000HD RF Meter/2 A/D Inputs/7-36 VDC | 5 lb (2.5 kg) | $1,595.00 |
| **159379** | MSI 8000HD RF Meter/2 A/D Inputs/18-72 VDC | 5 lb (2.5 kg) | $1,605.00 |
| **159378** | MSI 8000HD RF Meter/2 A/D Inputs/9-36VDC | 5 lb (2.5 kg) | $1,605.00 |
| **176957 *** | MSI 8000HD BT Meter/85-265 VAC | 5 lb (2.5 kg) | Consult |
| **176958** | MSI 8000HD Wi-Fi Meter/85/265 VAC | 5 lb (2.5 kg) | $1,330.00 |
| **176959 *** | MSI 8000HD BT Meter/Internal Battery | 5 lb (2.5 kg) | Consult |
| **176960** | MSI 8000HD Wi-Fi Meter/Internal Battery | 5 lb (2.5 kg) | $1,440.00 |
| **176962 *** | MSI 8000HD BT Meter/7-36 VDC | 5 lb (2.5 kg) | Consult |
| **176964** | MSI 8000HD Wi-Fi Meter/7-36 VDC | 5 lb (2.5 kg) | $1,280.00 |
| **176965 *** | MSI 8000HD BT Meter/9-36 VDC | 5 lb (2.5 kg) | Consult |
| **176966** | MSI 8000HD Wi-Fi Meter/9-36 VDC | 5 lb (2.5 kg) | $1,315.00 |
| **176967 *** | MSI 8000HD BT Meter/18-72 VDC | 5 lb (2.5 kg) | Consult |
| **176968** | MSI 8000HD Wi-Fi Meter/18-72 VDC | 5 lb (2.5 kg) | $1,315.00 |

** Bluetooth modems only work with certain Android devices. Please contact Rice Lake for potential applications.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **155173** | MSI-8000HD spare tilt stand option kit | $75.00 |
| **155193** | MSI-8000HD Ethernet TCP/IP option kit wired | $370.00 |
| **162178** | Antenna extension kit, 5 ft | $415.00 |
| **148624** | MSI-8000HD serial RS-232 cable | $115.00 |
| **158779** | MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5A or 100 VDC 0.4A | $315.00 |
| **158780** | MSI-8000HD two each solid state relay option kit, 60 Vpk 2.7A | $315.00 |
| **158781** | MSI-8000HD two each solid state relay option kit, 200 Vpk 0.9A | $315.00 |
| **149549** | Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device | $135.00 |
| **149550** | Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device | $130.00 |
| **171203** | Audible alarm kit | $315.00 |
| **176963** | Serial print cable | $135.00 |
| **Relays** | | |
| **172490** | Expanded Relay Kit, Four-Channel, 12A 5V, Latching Relays | $745.00 |
| **172492** | Expanded Relay Kit, Four-Channel, 12A 5V, Momentary Relays | $725.00 |
| **Consult** | Expanded Relay Kit, Four-Channel, 0.9A 200Vpk, AC/DC Solid State Relays | $750.00 |
| **172495** | Expanded Relay Kit, Eight-Channel, 12A 5V, Momentary Relays | $750.00 |
| **172500** | Expanded Relays Option Kit, Four-Channel, 3A, 60Vpk Solid State Form C Relays | $1,025.00 |
| **172501** | Expanded Relays Option Kit, Eight-Channel, 3A 60Vpk, Solid State Form C Relays | $1,365.00 |
| **172502** | Expanded Relays Option Kit, Eight-Channel, 0.9A 200Vpk, Solid State Form C Relays | $1,195.00 |
| **171676** | Expanded Relays Option Kit, Eight-Channel, 12A 5V, Latching Relays | $805.00 |





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# MSI-8004HD

Indicator/RF LED Remote Display




## Standard Features

- IP65 rugged milled aluminum enclosure
- Backlit membrane keypad for user functioning and controls
- Tilt bracket included
- NTEP certified configuration

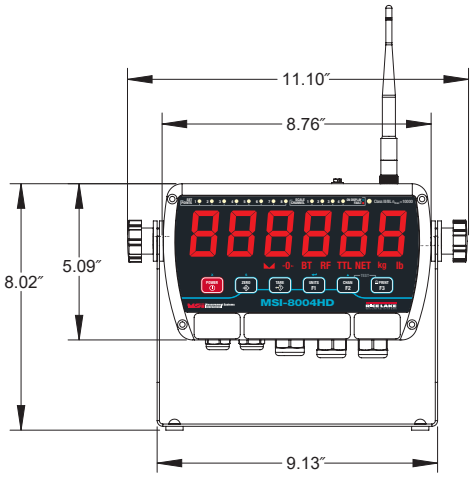
## Options

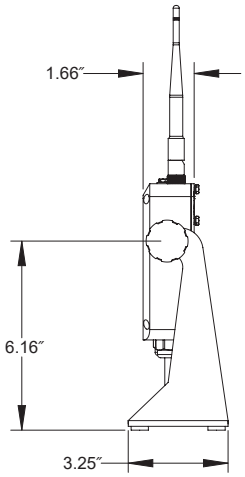
- Expanded relay outputs
- Battery pack for mobile operation
- Second radio module for additional network connectivity

## Approvals








## Specifications

**Display:**
Six-digit, 1.5 in (38 mm) LED display with red/green coloring

**Enclosure:**
NEMA Type 4, IP65 milled anodized aluminum

**Keypad:**
On/Off, Zero, Tare, Print and two user-defined keys

**Functions:**
Peak hold, high resolution, total, view total, net/gross, units switching

**Units:**
Pounds, kilograms, tons, metric tons, kilonewtons

**Annunciators:**
Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs

**Channels:**
1, 2, 3, 4, TTL

**Power:**
90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC

**Temperature:**
-4° F to 140° F (-20° C to 60° C)

**RF Remote Channels:**
Up to 4 remote sensors monitored individually, in pairs or sum all (non-A/D version only) (when used with TranSend)

**Service Counters:**
A/D version only

**A/D Inputs:**
Four independent or summing load cell inputs

**Excitation:**
4.8 V current limited and over-voltage protected

**Relays:**
Two 5V coil, 250VAC, 5A relays

**Filtering:**
Off, Low, Hi-1, Hi-2

**RF Radio Link:**
2.4 GHz 802.15.4, optional second channel for Serial RF, 802.11 Wi-Fi, cellular connectivity or Bluetooth®

**RF Effective Range:**
Typically 300 ft (91.44 m) line of sight

**Data I/O:**
Two RS-232 hard wired communication ports

**Approvals:**
NTEP COC #17-036 (-5° C to 40° C)
Measurement Canada

**Warranty:**
One-year limited warranty



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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Indicator** | | |
| **178265** | MSI-8004HD Indicator, 4CH AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC | $1,830.00 |
| **178269** | MSI-8004HD Indicator, 4CH DC 8-32 V, Red/Green Best for external 12 V SLA Batteries | $1,865.00 |
| **178271** | MSI-8004HD Indicator, 4CH DC 9-36 V Iso, Red/Green Do not use on 12 V Vehicle Systems | $1,945.00 |
| **178274** | MSI-8004HD Indicator, 4CH DC 18-75 V Iso, Red/Green | Consult |
| **178278** | MSI-8004HD Indicator, 4CH DC 5 V, Red/Green For use with external 15 W, 5 V Power Supplies | Consult |
| **183481** | MSI-8004HD Indicator, 4CH 5 V Red/Green with external rechargeable battery | $1,840.00 |
| **196904** | MSI-8004HD Indicator, 4CH AC, Red/Green Instant Power-On, 85-264VAC | $2,025.00 |
| **Remote Display** | | |
| **178281** | MSI-8004HD Display, AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC | $1,785.00 |
| **178283** | MSI-8004HD Display, DC, 8-32 V, Red/Green Best for external 12 V SLA Batter | $1,745.00 |
| **178285** | MSI-8004HD Display, DC, 9-36 V Iso, Red/Green Do not use on 12 V Vehicle Systems | $1,820.00 |
| **183479** | MSI-8004HD Display, 4CH 5 V Red/Green with external rechargeable battery | $1,580.00 |

## Options

| Part # | Description | Price |
|---|---|---|
| **148624** | Serial Cable, RS-232 9000 Serial Cable, DCE | $115.00 |
| **139309** | Antenna Kit, Long Range Omni-directional, 9 dBi with 3 m Coax<br>Intended for omni-directional mast mounting (up to 2" Ø). Beam-width. Must be mounted vertically. | $435.00 |
| **139310** | Antenna Kit, Corner Reflector, 9 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" Ø). Beam-width: 75° Elevation, 65° Azimuth | $430.00 |
| **139311** | Antenna Kit, Corner Reflector, 12 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" Ø). Beam-width: 50° Elevation, 36° Azimuth | $460.00 |
| **139312** | Antenna Kit, YAGI, 15 dBi with 3 m coax highly directional wall or mast mounting (up to 2" Ø). Beam-width: 30° Elevation, 34° Azimuth | $355.00 |
| **139313** | Antenna Kit, Vehicle Mount, 5 dBi with 5 m coax omni-directional. Mounts in 3/4" Hole. | $130.00 |
| **162178** | Antenna extension kit, 5ft | $415.00 |
| **197013** | Antenna extension kit, 20 ft | $445.00 |
| **155173** | Option kit, tilt stand | $75.00 |
| **171203** | Audible alarm Not compatible with battery versions 22436 | $315.00 |
| **22436** | Cable, Comm DB9F 9 Pin Fem One end stripped and tinned on other end 6' Pin 2 (Brown) Pin 3 (Red) Pin 5 (Yellow) For use with MSI-8004HD serial ports to connect to: Scoreboard displays, printers, computers & other equipment that supports RS-232 | $65.00 |
| **183437** | Battery, 5V Li-ion battery with USB power ports. Output 5 V/3.0A per port (6.0 A max)Rate, 2A per port (4A if both ports are used) | $200.00 |
| **184132 *** | 8004 option kit, Bluetooth® with SMA antenna | Consult |
| **184131** | 8004 option kit, WiFi with SMA antenna | $170.00 |
| **187424** | 8004 option kit, 2nd Xbee with TNC antenna | $180.00 |
| **182224** | Power Adapter, 12 VDC 5 VDC Dual USB Car Charger plus 3 ft USB Cable | $50.00 |
| **Relays** | | |
| **172500** | Expanded Relays Option Kit, four-channel, 3A, 60VPK SSR form C | $1,025.00 |
| **172501** | Expanded Relays Option Kit, eight-channel, 3A 60VPK, SSR form C | $1,365.00 |
| **Consult** | Expanded Relays Option Kit, four-channel, 0.9A 200VPK, AC/DC SSR | $750.00 |
| **172502** | Expanded Relays Option Kit, eight-channel, 0.9A 200VPK, SSR form C | $1,195.00 |
| **172492** | Expanded Relays Option Kit, four-channel, 12A 5 V, momentary | $725.00 |
| **172495** | Expanded Relays Option Kit, eight-channel, 12A 5 V, momentary | $750.00 |
| **172490** | Expanded Relays Option Kit, four-channel, 12A 5 V, latching relays | $745.00 |
| **171676** | Expanded Relays Option Kit, eight-channel, 12A 5 V, latching relays | $805.00 |

** ScaleConnect app only works with certain Android devices. Please contact Rice Lake for potential applications.*





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# MSI-9850 CellScale™ RF Digital Indicator




*Contact MSI for application consultation*

## Standard Features

- Compatible with MSI-6260CS, MSI-9300 and MSI-9000 CellScale
- Six-digit 1.2 in (30 mm) LED display
- 1.4 in x 2.6 in (36 mm x 67 mm) information LCD display
- 2.4 GHz spread spectrum transceiver
- RS-232 data I/O with real-time clock
- NEMA Type 4, IP65 enclosure
- Power input 85-265 VAC, 47-440 Hz / 130-300 VDC; 8 ft/2.4 m power cable included (NA plug standard)

### Approvals

## Options

- NTEP Certified
- Long range antenna, omni-directional with 9dBi
- Wi-Fi Ethernet connectivity (802.11b)
- Hard wired Ethernet output connection
- Single and dual 4-20 mA output, provides programmable current output
- Bar code scanner
- Setpoint relays, provides up to eight setpoint relay outputs for direct interfacing to external devices
- External audible alarm (activates with setpoint control)
- Universal mounting bracket for either desktop or wall/bulkhead mount
- Optional isolated and non-isolated DC power supplies

## Specifications

**Enclosure:**
NEMA Type 4, IP65 milled anodized aluminum with O-ring gaskets
NEMA Type 6, IP67 with optional long-range antenna

**Weight:**
5.0 lb (2.8 kg)

**Keypad:**
33 keys–12 key alphanumeric, four cursor keys, seven control keys and 10 user programmable keys. Password protected with lock feature

**Weight Display:**
Six-digit, 1.2 in (30 mm) high numeric weight LED, four alphanumeric 0.5 in (13 mm) high data LED, six LED function select annunciators, 10 LED annunciators, Low battery LED indicator

**Information Display:**
1.4 in x 2.6 in (36 x 67 mm) backlit LCD. Capable of 8 lines of 21 characters each backlight selectable On, Off or Automatic

**Power Input:**
Internal AC/DC power supply: 85-265 VAC, 47-440 Hz/130-300 VDC
Also included: An independent 7-25 VDC power input (requires optional power/switch interface cable)8 ft/2.4 m power cable included (NA plug standard)

**Operating Temperature:**
4°F to 158°F (-20°C to 70°C)

**Radio Link:**
FHSS at 2.4 GHz (up to 64 network selections)

**Radio Link Effective Range:**
Typically 500 ft (150 m) indoor, 1000 ft (300 m) outdoor with standard antennas.
See optional antennas for longer range.

**Standard Antenna:**
1/2 wave 2 dBi, articulated

**RFI/EMI Shielding:**
Exceeds NIST HB44 and CE Standards

**Connectors:**
RS-232, Turck compatible Pico connector

**Warranty:**
One-year limited

**Approvals:**
NTEP CC 05-077



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## Part Number/Price

| Part # | MSI Part # | Description | Est. Weight | Price |
|---|---|---|---|---|
| **159625** | N/A | MSI-9850 RF remote indicator AC/DC | 10 lb (4.5 kg) | $2,640.00 |
| **162035** | N/A | MSI-9850 RF remote indicator AC/DC International Power | 10 lb (4.5 kg) | $2,640.00 |

## Options/Accessories

| Part # | MSI Part # | Description | Price |
|---|---|---|---|
| **141558** | 10082 | External setpoint relay output cable, 6.5 ft/2 m | $110.00 |
| **138358** | 502513-0001 | RS-232, 13 ft/4 m cable with DB-9 connector | $110.00 |
| **176074** | | Cable, RS-232, serial output, with DB-9 connector, null modem | $135.00 |
| **138625** | 502598-0001 | RF remote controller (control for On/Off, Zero, Tare and other functions. 10 m operating range) | $325.00 |
| **143466** | 12147 | Long-range antenna, omni-directional with 9 dBi gain, includes 10 ft/3 m coaxial cable | $445.00 |
| **197013** | | Antenna extension kit, 20 ft | $445.00 |
| **Consult** | Consult | 9 dBi or 14 dBi gain corner reflector antenna | Consult |
| **Consult** | Consult | 5 dBi gain vehicle/cab mount whip antenna, includes 17 ft/5.2 m coaxial cable | Consult |
| **139032** | 502835-0001 | Hard-wired Ethernet output connection, includes connector | $375.00 |
| **139033** | 502835-0002 | Wi-Fi Ethernet connectivity (802.11b - contact factory for assistance) | $375.00 |
| **138615** | Consult | Single 4-20 mA output. Provides programmable current output | $375.00 |
| **138616** | Consult | Dual 4-20 mA output | Consult |
| **Consult** | Consult | Bar code scanner (several options available) | Consult |
| **Consult** | Consult | Internal setpoint relays, provides up to eight setpoint relay outputs for direct interfacing to external devices | Consult |
| **Consult** | Consult | Control kit, provides remote I/O relay board for interfacing to setpoints (note: I/O modules not included) | Consult |
| **138628** | 502599-0001 | External audible alarm (activates with setpoint control) | $400.00 |
| **138341** | 502488-0001 | Universal mounting bracket for either desktop or wall / bulkhead mount (specify type) | $140.00 |
| **138351** | 502499-0001 | Vehicle or wall mount bracket stand | $140.00 |
| **138631** | 502600-0003 | Non-isolated 7-25 VDC power input, includes 13 ft/4 m non-terminated DC input cable | $140.00 |
| **138632** | 502600-0004 | Isolated 10-36 VDC power input, includes 13 ft/4 m non-terminated DC input cable | $140.00 |
| **138633** | 502600-0005 | Isolated 20-72 VDC power input, includes 13 ft/4 m non-terminated DC input cable | $220.00 |





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# VIRTUi2®

PC-Based HMI for iQUBE²®




Virtui2 is a Windows®-based desktop application that works with iQUBE2 to replicate simple indicator functionality ideal for system integrators and OEMs wanting to provide a PC-based solution. Load cells are individually monitored and calibrated, making setup easy.

## Standard Features

- Virtual front panel consists of display and five-button keypad
- Web browser-based iQUBE²® cell status
- Provides local and remote reporting of diagnostics and error conditions
- Up to four scale systems and one total scale
- Primary/secondary units configuration (lb, kg, short tons, metric tons, none)
- RS-232 communications at up to 460 Kbps
- Electronic Data Processing (EDP) port over RS-232 and TCP/IP
- Printer port for output-only, simplex communications
- Two print formats
- Provides iQUBE² configuration screen and iQUBE² digital I/O configuration
- Supports iQUBE² diagnostics with configurable error viewing
- Peak weight history
- Recalibration notification
- Concentrated load capacity (CLC)
- Section capacity

### Approvals

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **108435** | VIRTUi2 virtual indicator DEMO CD | N/C |
| **108436** | Activation part number requires machine ID and customer's email address | $500.00 |

## Specifications

**Minimum System Requirements:**
Windows® 8.1 through 10
Serial port
USB to serial converter, or Ethernet TCP/IP for connection to iQUBE²
Additional serial ports are required for connections to printers/remote displays

**Status Annunciators:**
Units (lb, kg, short tons (tn), metric tons (t), NONE) gross/net, motion, center of zero

**Approvals:**
NTEP CC 04-058 Classes III and IIIL at 10,000d



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## Specifications

**Power:**
12/24 VDC
Power Consumption:
70 mA min – 100 mA max

**Excitation Voltage:**
5VDC, 120 mA, 8 x 350 Ω

**Analog Signal Input Range:**
± 39 mV
Analog Signal Sensitivity:

**0.03 µV/graduation minimum**
0.3 µV/graduation recommended

**A/D Sample Rate: Four channel A/D 24-bit**
sigma-delta conversion, up to 200 conv. /sec. auto select

**Resolution:**
Internal resolution: 1.5 million counts
Weight display resolution: 800,000

**Digital Inputs/Outputs:**
Two inputs: 12/24 VDC
Two outputs:150 mA 48 VAC/ 150 mA 60 VDC

**Serial Port:**
1-RS-485, 1-RS-232

**Analog Output (if equipped):**
Opt isolated, 16-bit
0-20mA, 4-20mA (Maximum 350 ohm)
0-5VDC, 0-10VDC (Minimum 10,000 ohm)

**Display:**
Six-digit (13 mm), red LED

**Annunciators:**
Net, center of zero, stability

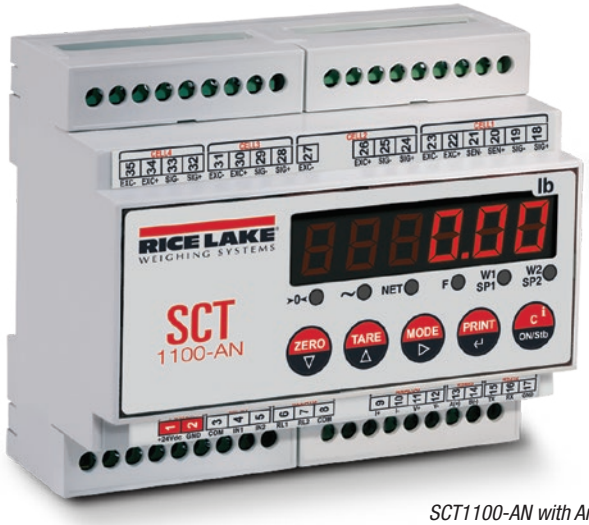
**Keyboard:**
Five key, membrane panel, tactile feel
Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

**Temperature & Humidity:**
Working temperature: 5° F to 104° F (-15° C to 40° C)
Humidity: 85% non-condensing
Dimensions (W x H x D):
4.17 in x 3.54 in x 2.28 in (106 mm x 90 mm x 58 mm)

**Weight:**
1 lb (0.5 kg)

**Rating/Material:**
NEMA Type 1 plastic pluggable connectors

**Warranty:**
One-year limited warranty




*SCT1100-AN with Analog Output*

## Standard Features

- Up to four independent scales or four load cell inputs
- Quick menu for real and theoretical calibration
- Red LED display (13mm) and six LEDs show active functions
- Standard DIN rail-mounting with power supply and enclosures
- Configurable calibration and setup parameters from keyboard
- Up to three calibration linearization points or three from the keyboard
- Reading of the net, gross and tare weights, clearing, semi-automatic and presettable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, simulation of key pressure

### Approvals

pending

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **202101** | Indicator, SCT-1100-AN four load cell input with Analog Output | 1 lb | $385.00 |
| **197011** | Indicator, SCT-1100-AN four load cell input with Analog Output in plastic enclosure | 1 lb | $550.00 |

## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **188483** | SCT-1000 converter RS 232/485 to Ethernet TCP/IP and Modbus TCP. Does not have an A/D | 1 lb | $375.00 |




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# SCT-2200

Signal Conditioning Transmitter



*SCT2200 with EtherNet/IP Module*

## Standard Features

- HUB Mode connects up to 16 transmitters to one fieldbus
- Quick menu for real and theoretical calibration
- Remote access through web browser for weight monitoring and calibration over EtherNet/IP, Profinet and Modbus TCP network
- Red LED display with six-digits (8 mm) and six LEDs show active functions
- Standard DIN rail- mounting with power supply and enclosures
- Configurable calibration and setup parameters from keyboard
- Up to three calibration linearization points or three from the keyboard
- Reading of the net, gross and tare weights, clearing, semi-automatic and presettable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, simulation of key pressure, Modbus RTU
- Double RS-485 port for a quick network connection
- Printer management on second serial port available
- Multi-range function allows for subdividing the scale capacity in two, each up to 3,000 divisions

## Approvals

pending

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Transmitters** | | | |
| **202103 *** | Indicator, SCT-2200 for scale input to be used with fieldbus module | 1 lb | $270.00 |
| **202104** | Indicator, SCT-2200-AN with Analog Output | 1 lb | $385.00 |
| **Fieldbus** | | | |
| **182592** | Fieldbus, SCT-2200,Profinet Module | 1 lb | $470.00 |
| **182594** | Fieldbus, SCT-2200, Wi-Fi Module | 1 lb | $460.00 |
| **194343** | Fieldbus, SCT-2200, Ethernet TCP/IP and WiFi | 1 lb | $470.00 |
| **182593** | Fieldbus, SCT-2200, Profibus Module | 1 lb | $300.00 |
| **182591** | Fieldbus, SCT-2200, EtherNet/IP Module | 1 lb | $470.00 |
| **182596** | Fieldbus, SCT-2200, DeviceNet Module | 1 lb | $470.00 |
| **182598** | Fieldbus, SCT-2200, EtherCAT Module | 1 lb | $470.00 |
| **182597** | Fieldbus, SCT-2200, CANopen Module | 1 lb | $470.00 |
| **196694** | Fieldbus, SCT-2200, Modbus TCP Module | 1 lb | $470.00 |
| **182599** | Cable with RJ45 plugs, 6 in length | 1 lb | $10.00 |

***How to Order the SCT-2200 for use with fieldbus module***

*Order SCT-2200 transmitter scale-input module.*
*Order fieldbus module (HUB mode connects up to 16 transmitters to one fieldbus module).*
*Order 1-cable (PN 182599) for each scale-input module in the HUB.*

## Specifications

**Power:**
12/24 VDC
Power Consumption:70 mA min – 100 mA max

**Excitation Voltage:**
5 VDC, 120 mA, 8 x 350 Ω

**Analog Signal Input Range:**
± 39 mV
Analog Signal Sensitivity:

**0.03 µV/graduation minimum**
0.3 µV/graduation recommended
A/D Sample Rate:
One channel A/D 24-bit sigma-delta conversion, up to 200 conv. /sec. auto select

**Resolution:**
Internal resolution: 1.5 million counts
Weight display resolution: 800,000

**Digital Inputs/Outputs:**
Two inputs: 12/24 VDC
Two outputs:150 mA 48 VAC/ 150 mA 60 VDC

**Serial Port:**
1-RS-485, 1-RS-232

**Analog Output (if equipped):**
Opt isolated, 16-bit
0-20mA, 4-20mA (Maximum 350 ohm)
0-5VDC, 0-10VDC (Minimum 10,000 ohm)

**Display:**
Six-digit 0.31 in(8 mm), red LED

**Annunciators:**
Net, center of zero, stability

**Keyboard:**
Five key, tactile feel
Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

**Temperature & Humidity:**
Working Temperature: 14° F to 122° F (-10° C to 50° C)
Humidity: 85% non-condensing
Dimensions (W x H x D):
0.98 in x 4.52 in x 4.72 in
(25 mm x 115 mm x 120 mm)

**Weight:**
1 lb (0.5 kg)

**Rating/Material:**
NEMA Type 1 plastic pluggable connectors

**Warranty:**
One-year limited warranty



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## Specifications

**Power:**
Input: 20-28 VDC
Power consumption: 8 W

**Excitation Voltage:**
10 VDC, 170 mA, 6 x 350 Ω

**Analog Signal Input Range:**
3.5 to 24 mV

**Analog Signal Sensitivity:**
0.1 µV/graduation minimum
1.0 µV/graduation recommended

**A/D Sample Rate:**
300 Hz

**Resolution:**
System linearity: ± 0.01% full scale

**Analog Output (if equipped):**
Optoisolated
0-20 mA, 4-20 mA (max 300 ohm)
0-10 VDC (min 10,000 ohm)

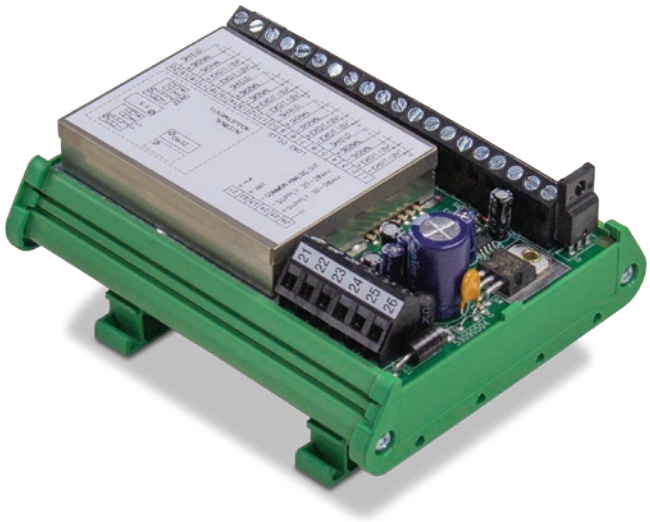
**Temperature & Humidity:**
Working temperature: 14° F to 122° F
(-10° C to 50° C)
Humidity: 85% non-condensing

**Dimensions (W x H x D):**
4.56 in x 3.72 in x 2.4 in (114 mm x 93 mm x 60 mm)

**Weight:**
0.5 lb (0.2 kg)

**Rating/Material:**
DIN rail mount: NEMA Type 1

**Warranty:**
One-year limited warranty



## Standard Features

- Powers up to six (350 ohm) load cells in parallel
- Analog amplifier and transmitter
- Analog output: 0-20 mA, 4-20 mA, 0-10 V
- Mounting on Omega/DIN rail for back panel or junction box
- IP67-rated enclosed versions

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Transmitters** | | | |
| **188725** | Indicator, SCT-3300 four load cell input with Analog Output | 1 lb | $290.00 |

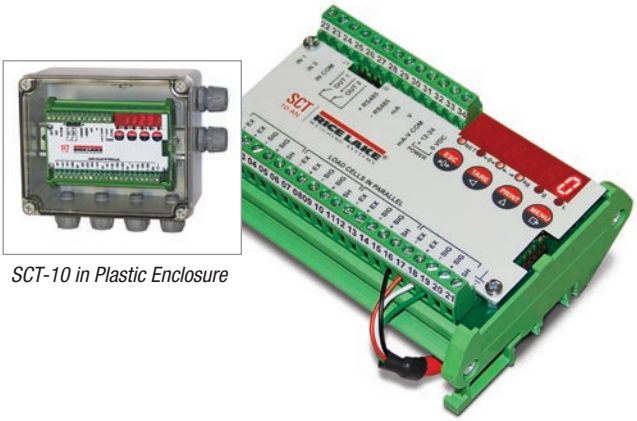




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# SCT-10

Signal Conditioning Transmitter



*SCT-10 in Plastic Enclosure*

## Standard Features

- Converts digital weight to analog output
- Sums four input channels in parallel
- Theoretical calibration, real-weigh calibration, linearity calibration
- Push button or preset tare
- Full-scale analog output with zero setting and PLC correction of analog signal
- Displays weight, configuration, calibration and error conditions
- DIN-rail mounting, suitable for back panel
- Two digital inputs, two digital outputs
- One serial port, RS-232 simplex and RS-485 connection
- Supports ASCII or MODBUS-RTU protocols
- CD manual

APPROVALS

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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **129393** | SCT-10 converter with Analog Output | 1 lb | $400.00 |
| **129394** | SCT-10 converter with Analog Output in enclosure | 1 lb | $550.00 |
| **131129** | Installation manual | 1 lb | $25.00 |

## Specifications

**Power:**
Input: 12 -24 VDC
Power consumption: 5 watts

**Excitation Voltage:**
5VDC, 120mA, 8 x 350Ω

**Analog Signal Input Range:**
+/- 19.5mV

**Analog Signal Sensitivity:**
0.1 µV/graduation minimum
1.0 µV/graduation recommended

**A/D Sample Rate:**
80 Hz

**Resolution:**
Internal resolution: 16 million counts
Weight display resolution: 999,999
System Linearity: ± 0.01% full scale

**Digital Inputs/Outputs:**
2 inputs 5-24VDC, 2 outputs 24VDC/60mA N.O. or N.C. (solid state)

**Serial Port:**
RS-485 or RS-232 simplex supports up to 115,200 bps

**Analog Output:**
Optoisolated, 16 bit
0-20mA, 4-20mA (max 300 ohm)
0-10VDC, 0-5VDC, -10 to 10VDC, 5 to 5VDC, (min 10k ohm)

**Display:**
0.3 in (8 mm), six digit, 7 segment LED
Annunciators: Net, center of zero, stability, KG, G, LB
Annunciators test status of inputs/outputs

**Keyboard:**
4-key membrane panel, tactile feel
Zero, Tare, Print, Menu, Escape, Left and Up Navigation, Enter

**Operating Temperature & Humidity:**
Working Temperature: -4°F to 140°F (-20°C to 60°C)
Humidity: 85% non-condensing

**Dimensions (WxHXD):**
DIN Rail Mount: 4.84 x 3.62 x 1.96 in (123 x 92 x 50 mm)
IP67 Enclosure: 6.69 x 5.51 x 3.74 in (170 x 140 x 95 mm)

**Weight:**
1 lb (0.5 kg)

**Rating/Material:**
DIN Rail Mount: NEMA Type 1
Sealed enclosure: NEMA Type 4X/IP67, plastic enclosure, clear cover, six PG 9 cord grips

**Warranty:**
One-year limited warranty



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## Specifications

**Power:**
Input: 12 -24 VDC
Power consumption: 5 watts

**Excitation Voltage:**
5VDC, 120mA, 8 x 350Ω

**Analog Signal Input Range:**
+/- 39mV

**Analog Signal Sensitivity:**
0.1 µV/graduation minimum
1.0 µV/graduation recommended

**A/D Sample Rate:**
300 Hz

**Resolution:**
Internal resolution: 16 million counts
Weight display resolution: 999,999
System linearity: ± 0.01% full scale

**Digital Inputs/Outputs:**
2 inputs 5-24VDC, 3 outputs 115VAC/150mA N.O. or N.C. (dry contact)

**Serial Port:**
RS-485 or RS-232 simplex supports up to 115,200 bps

**Analog Output:**
Optoisolated, 16 bit
0-20mA, 4-20mA (max 300 ohm)
0-10VDC, 0-5VDC (min 10k ohm)

**Display:**
0.3 in (8 mm), six digit, seven segment LED
Annunciators: Net, center of zero, stability, KG, G, LB

**Keyboard:**
4-key membrane panel, tactile feel
Zero, Tare, Print, Menu, Escape, Left & Up Navigation, Enter

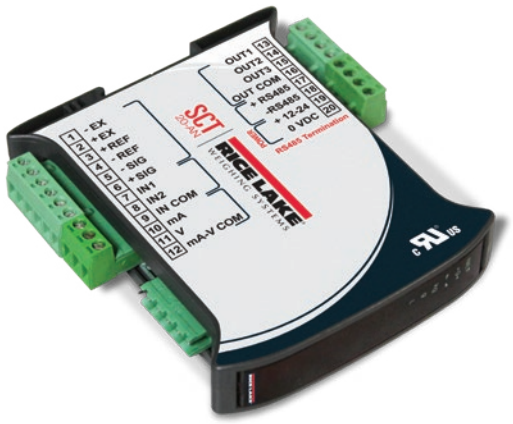
**Operating Temperature & Humidity:**
Working Temperature: -4°F to 140°F (-20°C to 60°C)
Humidity: 85% non-condensing

**Dimensions (W x H x D):**
SCT converter: 0.98 x 4.52 x 4.72 in (25 x 115 x 120 mm)

**Weight:**
1 lb (0.5 kg)

**Rating/Material:**
SCT enclosure: NEMA Type 1 plastic pluggable connectors

**Warranty:**
One-year limited warranty




## Standard Features

- Space saving, vertical shape with DIN-rail mounting
- Displays weight, configuration, calibration and error conditions
- Theoretical calibration, real-weigh calibration, linearity calibration
- Push button or preset tare
- Converts digital weight to analog output or optional DeviceNet™ or Profibus ™ or EtherNet/IP™ protocol
- Supports ASCII or MODBUS-RTU protocols
- Full-scale analog output with zero setting and PLC correction of analog signal
- Bit swapping selection for little endian and big endian format
- Two digital inputs, three digital outputs
- One serial port, RS-232 simplex and RS-485 connection
- CD manual

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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **129396** | SCT-20 converter with Analog Output | 1 lb | $400.00 |
| **129397** | SCT-20 converter with DeviceNet™ | 1 lb | $600.00 |
| **129558** | SCT-20 converter with Profibus™ DP | 1 lb | $600.00 |
| **129398** | SCT-20 converter with EtherNet/IP™ | 1 lb | $750.00 |
| **132534** | SCT-20 converter with Ethernet TCP/IP™ | 1 lb | $750.00 |
| **156903** | SCT-20 converter with Modbus/TCP | 1 lb | $750.00 |
| **131128** | Installation manual | 1 lb | $25.00 |
| **NTEP Approved** | | | |
| **162883** | SCT-20 converter with Analog Output | 1 lb | $475.00 |
| **162886** | SCT-20 converter with EtherNet/IP single port | 1 lb | $825.00 |
| **162887** | SCT-20 converter with Ethernet TCP/IP | 1 lb | $825.00 |

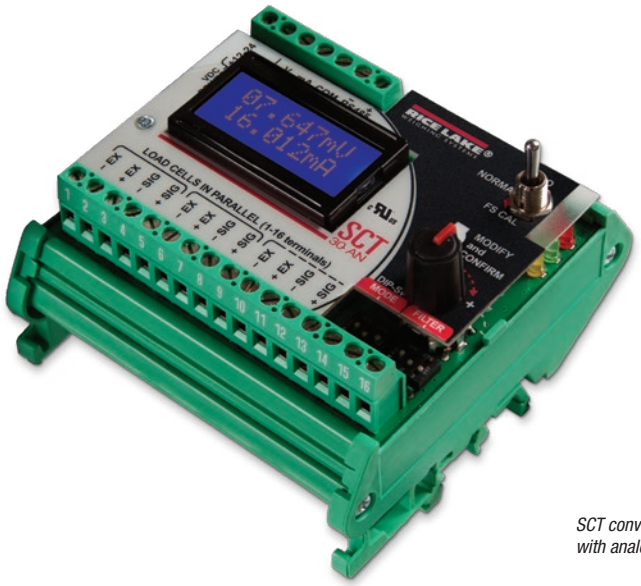
*EtherNet/IP and Modbus output changed to Dual Port in 2019.*



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# SCT-30

Signal Conditioning Transmitter




*SCT converter with analog output*

## Standard Features

- LCD display, 5 mm, eight digits
- Powers up to eight (350 ohm) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit 4.8 kHz
- 16-bit analog output: 0-20 mA, 4-20 mA, 0-5 V, 0-10 V, ±5 V, and ±10 V
- Mounting on Omega/DIN rail for back panel or junction box
- IP67-rated enclosed versions
- Diagnostic message for load cell disconnect and over capacity errors

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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **156794** | SCT-30 converter with Analog Output | 1 lb | $325.00 |
| **156834** | SCT-30 converter with Analog Output in enclosure | 1 lb | $475.00 |
| **131129** | Installation manual | 1 lb | $25.00 |

## Specifications

**Power:**
Input: 12 -24 VDC
Power consumption: 3 watts

**Excitation Voltage:**
5VDC, 120mA, 8 x 350Ω

**Analog Signal Input Range:**
+/- 39mV

**Analog Signal Sensitivity:**
0.1 µV/graduation minimum
1.0 µV/graduation recommended

**A/D Sample Rate:**
300 Hz

**Resolution:**
Internal resolution: 16 million counts
System linearity: ± 0.01% full scale

**Serial Port:**
RS-485

**Analog Output:**
Optoisolated, 16 bit
0-20mA, 4-20mA (max 300 ohm)
0-10VDC, 0-5VDC (min 10k ohm)

**Display:**
Eight-digit alphanumeric tow line LCD, 5 mm high

**Keyboard:**
Control knob and DIP switches

**Temperature & Humidity:**
Working Temperature: -4°F to 140°F (-20°C to 60°C)
Humidity: 85% non-condensing

**Dimensions (W x H x D):**
SCT converter: 3.54 x 3.74 x 2.36 in (90 x 95 x 60 mm)
IP67 enclosure: 6.69 x 5.51 x 3.74 in (170 x 140 x 95 mm)

**Weight:**
1 lb (0.5 kg)

**Rating/Material:**
DIN rail mount: NEMA Type 1
Sealed enclosure: NEMA Type 4/IP67, plastic enclousre, clear cover, six PG9 cord grips

**Warranty:**
One-year limited warranty



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## Specifications

**Power:**
Input: 12 -24 VDC
Power consumption: 5W

**Excitation Voltage:**
5 VDC, 240 mA, 16 x 350 Ω

**Analog Signal Input Range:**
+/- 39mV

**Analog Signal Sensitivity:**
0.1 µV/graduation minimum
1.0 µV/graduation recommended

**A/D Sample Rate:**
600 Hz

**Resolution:**
Internal resolution: 16 million counts
Weight display resolution: 999,999
System linearity: ± 0.01% full scale

**Digital Inputs/Outputs:**
3 inputs 5-24 VDC, 5 outputs, 115 VAC/150 mA

**Serial Port:**
RS-485 or RS-232 simplex supports
up to 115,200 bps

**Analog Output:**
Optoisolated, 16 bit
0-20 mA, 4-20 mA (max 300 ohm)
0-10 VDC, 0-5 VDC (min 10,000 ohm)

**Display:**
Backlit graphic LCD, transmissive
128 x 64 pixel resolution, 60 x 32 mm visible area

**Keyboard:**
Five-key tactile keypad
Test, Zero, Tare, Print Menu, Escape, Left and Up, Navigator, Enter

**Temperature & Humidity:**
Working temperature: -4° F to 140° F
(-20° C to 60° C)
Humidity: 85% non-condensing

**Dimensions (W x H x D):**
SCT converter (W x H x D):
5.82 in x 3.62 in x 2.36 in
(148 mm x 92 mm x 60 mm)

**Weight:**
1 lb (0.5 kg)

**Rating/Material:**
DIN rail mount: NEMA Type 1
Sealed enclosure: NEMA Type 4/IP67, plastic enclousre, clear cover, six PG9 cord grips

**Warranty:**
One-year limited warranty




## Standard Features

- LCD display, 60 x 32 mm
- Supports up to eight independent reading channels for load cells
- Displays weight, configuration, calibration and error conditions
- DIN rail mounting
- Theoretical calibration, real-weight calibration and error conditions
- Push button or preset tare
- Converts digital weight to analog output or optional DeviceNet™ , Profibus™ or EtherNet/IP™ protocols
- Supports ASCII or MODBUS RTU protocols
- Full scale analog cut put with zero setting and PLC correction of analog signal
- Bit swapping selection for little endian and endian format
- Three digital inputs, five digital outputs
- One serial port, RS-232 simplex and RS-485 connection
- CD manual

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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **170470** | SCT-40 with Analog Output | 1 lb | $595.00 |
| **170471** | SCT-40 with DeviceNet | 1 lb | $850.00 |
| **170472** | SCT-40 with Profibus | 1 lb | $850.00 |
| **170473** | SCT-40 with EtherNet/IP | 1 lb | $850.00 |
| **170474** | SCT-40 with Ethernet TCP/IP | 1 lb | $795.00 |
| **170475** | SCT-40 with Modbus TCP | 1 lb | $850.00 |
| **170476** | SCT-40 with Profinet I/O | 1 lb | $850.00 |
| **131128** | Installation manual | 1 lb | $25.00 |

*EtherNet/IP and Modbus output changed to Dual Port in 2019*




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# Relays and Racks

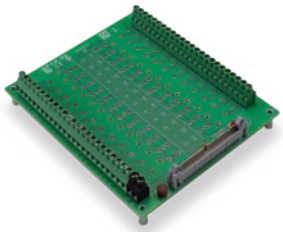
Input/Output Components



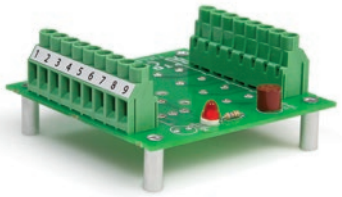
*OPTO 22 G4 PN45408*
*(6.10 x 1.20 in)*



*OPTO 22 G4 PN33206*
*(10.00 x 3.25 x 2.32 in)*

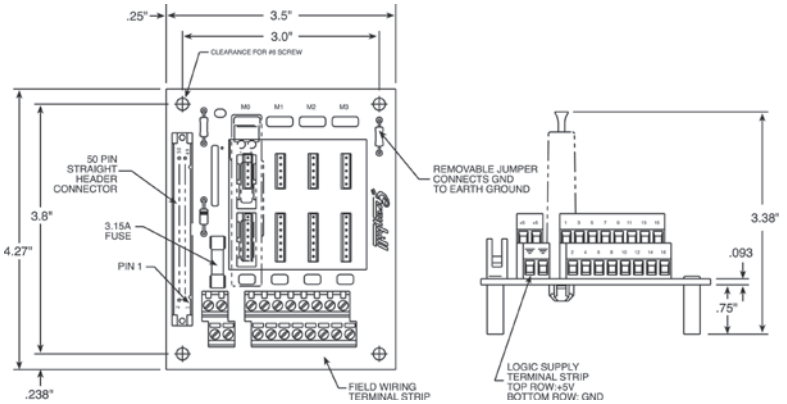


*OPTO 22 G4 PN33205*
*(7.50 x 6.25 x 2.32 in)*



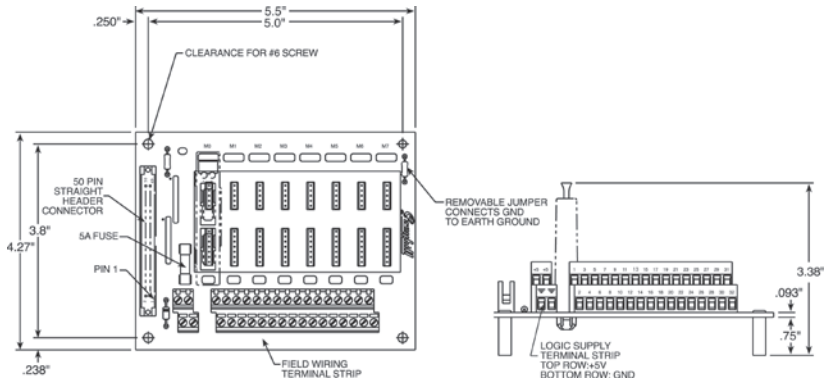
*OPTO 22 G4 PN15973*
*(3.25 x 3.25 x 2.32 in)*

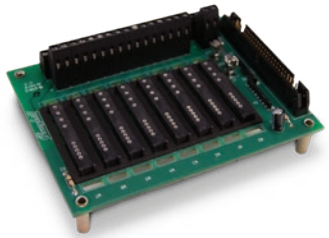
# Grayhill Relays and Racks



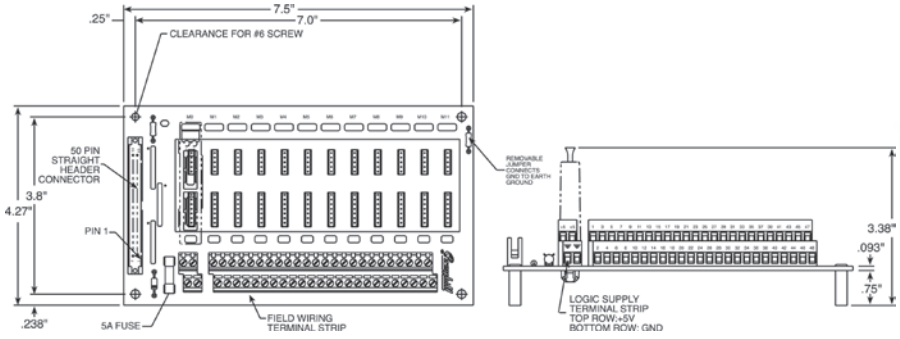


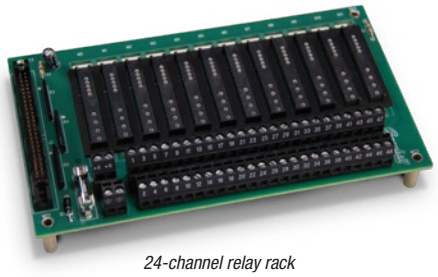

*8-channel relay rack*



*16-channel relay rack*



*24-channel relay rack*



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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Input/Output Component** | | |
| **43942** | Allen-Bradley® multi-function relay with digital display | $415.00 |
| **29616** | Dayton multi-function relay | $205.00 |
| **Other Relays** | | |
| **15952** | Eight-pin octal relay, AC/DC output, 10A, 120VAC coil | $54.00 |
| **15960** | Eight-pin octal relay, AC/DC output, 10A, 6VDC coil | $30.00 |
| **15961** | Eight-pin octal socket | $20.00 |
| **Grayhill Relays and Racks** | | |
| **52332** | Two-channel input relay, 2.5-28VDC | $54.00 |
| **52318** | Two-channel input relay, 120VAC | $54.00 |
| **52319** | Two-channel input relay, 240VAC | $54.00 |
| **52331** | Two-channel input relay, 10-32VDC | $54.00 |
| **52316** | Two-channel output relay, 120-140VAC at 2amp | $54.00 |
| **52317** | Two-channel output relay, 240-280VAC at 2amp | $54.00 |
| **71376** | Two-channel output relay, 3-60VDC t 1 amp | $76.00 |
| **71377** | Two-channel output relay, 0-200VDC/VAC at 1.5A/10W (dry contact) | $98.00 |
| **52331** | Two-channel input relay, 10-32VDC | $54.00 |
| **84698** | Two-channel output relay, inductive load, 120-140VAC at 2A | $76.00 |
| **84699** | Two-channel output relay, inductive load, 240-280VAC at 2A | $76.00 |
| **52312** | Eight-channel relay rack, 920i panel mount, wall mount requires 50-pin connector (4 slots) | $178.00 |
| **52314** | 16-channel relay rack, 920i panel mount, wall mount requires 50-pin connector (8 slots) | $262.00 |
| **52315** | 24-channel relay rack, 920i panel mount, wall mount requires 50-pin connector (12 slots) | $398.00 |
| **46189** | Jumper strap, 10 position for Grayhill | $5.00 |
| **108396** | Digital input 5VDC, 15-30VAC/10-32VDC | $43.00 |
| **108397** | Digital output 5VDC, 3-60VDC | $3.00 |
| **70780** | Cable, 50-pin flat ribbon for digital I/O, 24in | $50.00 |
| **70779** | Cable, 50-pin round ribbon for digital I/O with cord grip, 60in | $155.00 |
| **72442** | Cable, 50-pin round ribbon for digital I/O without cord grip, 60in | $150.00 |
| **93577** | Cable, 50-Pin flat ribbon for digital I/O, 31in | $65.00 |
| **94384** | Cable, 50-Pin flat ribbon for digital I/O, 50in | $65.00 |

## OPTO 22 Relays and Racks

| Part # | Description | Price |
|---|---|---|
| **15969** | G4IDC5 10-32VDC Input relay module, white (N/O) | $35.00 |
| **15970** | G40DC5R dry contact 100VDC/1.5A output, red (N/O) | $35.00 |
| **22848** | G40DC5R5 dry contact 100VDC/1.5A output, red (N/C) | $35.00 |
| **15971** | G40AC5 115VAC Output relay module, black (N/O) | $35.00 |
| **15972** | G4IAC5 115VAC Input relay module, yellow (N/O) | $35.00 |
| **22847** | G40AC5A5 115/230VAC Output relay module, black (N/C) | $35.00 |
| **36632** | G40AC5A 115/230VAC Output relay module, black (N/O) | $35.00 |
| **36631** | G4IAC5A 230VAC Input relay module, yellow (N/O) | $35.00 |
| **26834** | Fuse, 1A 250V (for PN 15970 and PN 22848) | $7.50 |
| **21735** | Fuse, 4A 250V (for PN 15971, PN 22847 and PN 36632) | $10.00 |
| **16478** | Quencharc® arc suppressor | $11.00 |
| **101923** | Remote relay box, does not include relay | $235.00 |
| **15973** | Four-channel relay rack, 3.25in x 3.25in x 2.32in | $100.00 |
| **45408** | Four-channel relay rack 6.1in x 1.2in (non UL) | $150.00 |
| **33206** | 16-channel relay rack, 10in x 3.25in x 2.32in | $185.00 |
| **33205** | 24-channel relay rack, 7.5in x 6.25in x 2.32in | $315.00 |
| **99032** | Adapter plate, for four-channel Opto rack 33490 | $5.00 |
| **155253** | Board assembly, DWM IV, eight-channel, Opto 22 GU series compatible, (non UL) | $155.00 |
| **Relay Boards Fixed Dry Contact Relay** | | |
| **30549** | 2-channel 120-240VAC or 30VDC/5A | $150.00 |
| **15959** | 4-channel 120-240VAC or 30VDC/5A | $250.00 |
| **29615** | Board, relay mounting 1-channel (requires DIN rail for mounting (non UL) | $87.00 |





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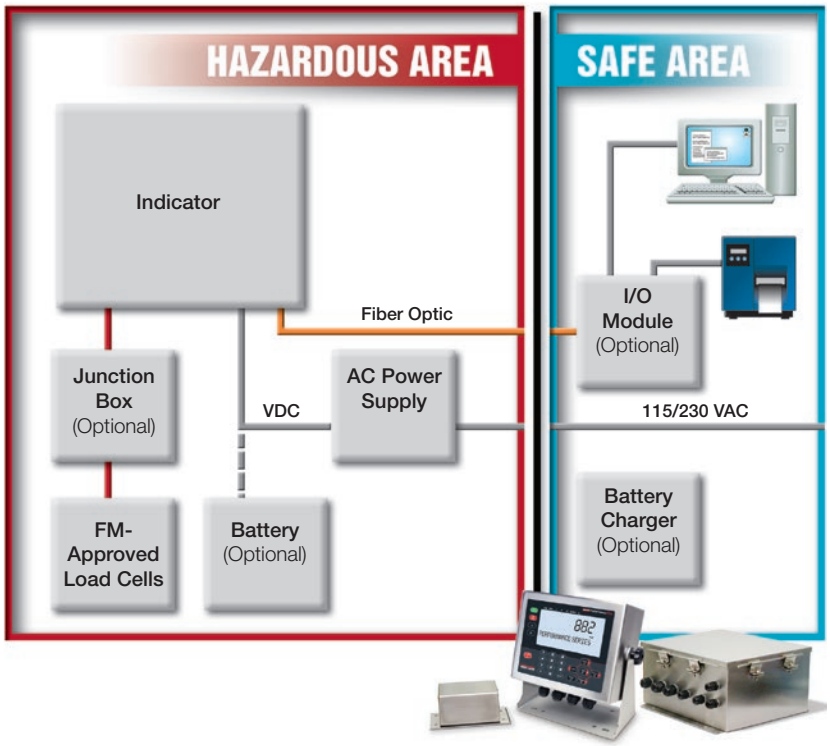
# Explosive Environment Equipment Policy

> ⚠ Caution: The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

Rice Lake Weighing Systems has assembled the very best intrinsically safe and explosion-proof equipment. In order to properly specify, install and service this equipment, it is necessary that our distributors understand and appreciate the possible risks involved.

Persons involved in selection and installation of intrinsically safe equipment should have knowledge of but not limited to the following:

- Explosive environment designations: Class, Division and Group
- Standards and codes applicable to hazardous environment equipment
- Equipment liability
- Theory of intrinsically safe, explosion-proof and purged systems
- Equipment specification guidelines
- Proper installation procedures
- Service precautions
- NFPA 70, "National Electrical Code (NEC) Handbook"
- NFPA 496, "Classification of Gases, Vapors, and Dusts for Electrical Equipment in Hazardous (Classified) Locations"
- ANSI/UL 913, "Standard for Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II and III, Division 1 Hazardous Locations"
- ANSI/ISA RP 12.6, "Installation of Intrinsically Safe Instrument Systems for Hazardous (Classified) Locations"
- FM Approval Standard 3610, "Approval Standard, Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II and III, Division 1 Hazardous Locations"
- FM Approval Standard 3615, "Approval Standards, Explosion Proof Electrical Equipment"
- "Electrical Installations in Hazardous Locations"




Plant Safety Engineers and Certified Electricians should always be involved in the specification and installation of any explosive environment equipment.

Please see Hazardous Area Classification on page 595 for assistance in selecting hazardous area control equipment for your application requirements.





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# Hazardous Area Classification

*For PDF version visit www.ricelake.com*

For assistance in selecting hazardous area control equipment for your application requirements, please complete this form and submit, along with a description of the application, to:

**Rice Lake Weighing Systems**
Attn: Hazardous Environment
230 West Coleman Street
Rice Lake, WI 54868
Telephone: 715-234-9171 • Fax: 715-234-6967

RLWS File #: _____ Date: _____

Sales Order #: _____ Checked By: _____

Equipment PN#(s) & Serial Number(s): _____

Factory Mutual Not Applicable _____ (International Orders Only) _____

**For Rice Lake Office Use Only**

## RICE LAKE CUSTOMER INFORMATION:

**Rice Lake Customer Name:** _____ **Customer Number:** _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: ( _____ ) _____ Fax: ( _____ ) _____

Contact Name: _____
(Printed name) (Signature) (Date)

Authorized Signature: _____
(Printed name) (Signature) (Date)

## END USER INFORMATION:

End User Company Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: ( _____ ) _____ Fax: ( _____ ) _____

Contact Name: _____
(Printed name) (Signature) (Date)

Authorized Signature: _____
(Printed name) (Signature) (Date)

Title: _____

(The following information is to be defined and completed by the END USER'S plant safety engineer or other authorized party)

Hazardous Area Classification: Class _____ , Division _____, Group _____, Temperature Class _____

Zone _____ , Group _____, Temperature Class _____

Specific Hazard/Material (please print): _____

Defining Individual: _____
(Printed name) (Signature) (Date)

Defining Authority (Title): _____

*Please retain a copy of this completed form for your records.*

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# Explosive Environment Solutions



⚠ Caution: The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

## EXPLOSION PROOF SYSTEM

*What is an explosion-proof indicator?*

It is simply a digital weight indicator enclosed in a special case. The purpose of an explosion-proof indicator is not, as the name suggests, to protect the indicator. Instead, the case prevents any explosion WITHIN the case from causing subsequent fire or explosion in the surrounding atmosphere.

For example, in a grain elevator application, combustible dusts (Class II hazardous atmosphere) may be present. A spark in a non-explosion-proof indicator could ignite an elevator-wide explosion. However, with an explosion-proof indicator, the spark (or even an explosion) is contained within the case. The hazardous atmosphere cannot be ignited, and the elevator is protected.

### ADVANTAGES

- Explosion containment
- Requires low maintenance
- No electronics
- No moving parts

### DISADVANTAGES

- Cannot indicate failure of containment capability
- Cost of protection per cubic foot increases with enclosure size
- Promotes condensation
- Cumbersome, limited access
- Causes harmful heat buildup
- Limited sizes
- Bulky designs
- Excessive weight

## PURGE SYSTEM

Purged systems are ideal for hazardous environments and use positive pressure to prevent particles, gases and fibers from entering the controller enclosure. As an added safeguard, a differential pressure switch automatically cuts off power when the pressure falls below the acceptable level. Type X, Y and Z purging hardware is available that meets National Fire Protection Association (NFPA) article 496 guidelines.

The three configurations are as follows:

**Type X Pressurizing:** Reduces the classification within the protected enclosure from Division 1 to Safe.

**Type Y Pressurizing:** Reduces the classification within the protected enclosure from Division 1 to Division 2.

**Type Z Pressurizing:** Reduces the classification within the protected enclosure from Division 2 to Safe.

### ADVANTAGES

- Reduces heat buildup
- Inhibits metal corrosion
- Requires low maintenance
- Increases equipment longevity
- Allows fast access to equipment
- Reduces moisture and dust buildup
- Reduces classification within enclosure
- Continuous system status indication
- Protects enclosures up to 450 cubic feet
- Allows use of any enclosure shape
- Cost of protection per cubic foot decreases with enclosure size

### DISADVANTAGES

- Contains moving parts
- Requires instrument air supply
- Some systems contain electronics
- Some systems require electrical power

## INTRINSICALLY SAFE BARRIER SYSTEM

Intrinsically safe load cells and safety barriers take the explosion proof principle a step further. Intrinsic safety ensures the indicator's electrical wiring and components are, by design, incapable of releasing enough energy to ignite flammable or combustible atmospheric mixtures in their most easily ignitable concentrations. In short, an intrinsically safe device eliminates the conditions for an explosion, no matter what the circumstances.

### ADVANTAGES

- Limits energy to device
- Requires low maintenance
- No moving parts
- Ideal for sensors

### DISADVANTAGES

- One barrier is required for each conductor
- Project cost increases with number of conductors
- Offers no protection against heat, moisture and dust
- Requires protection or installation in nonclassified area
- 24 VDC, 50 mA maximum power and signal strength limit



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# Hazardous Atmospheres (for reference only)

Hazardous atmospheres are divided into three general classes and two divisions:

**CLASS I:**
Flammable gases or vapors

**CLASS II:**
Combustible dusts

**CLASS III:**
Ignitable fibers or flyings

**DIVISION 1:**
Hazard exists under normal conditions

**DIVISION 2:**
Hazardous material is handled, processed or stored. Hazard is not normally present, but may be released due to accident or equipment malfunction.

## CLASS I:
Flammable gases or vapors

### CLASS I, GROUP A:
- Acetylene

### CLASS I, GROUP B:
- Acrolein (inhibited)
- Arsine
- Outadiene
- Ethylene oxide
- Hydrogen
- Manufactured gases containing more than 30% hydrogen by volume
- Propylene oxide
- Propylnitrate

### CLASS I, GROUP C:
- Acetaldehyde
- Allyl alcohol
- N-butyraldehyde
- Carbon monoxide
- Crotonaldeghyde
- Cyclopropane
- Diethyl ether
- Diethylamine
- Epichlorohydrin
- Ethylene
- Ethylenimine
- Ethyl mercaptan
- Ethyl sulfide
- Morpholine
- 2-nitropropane
- Tetrahydrofuran
- Unsymmetrical dimethyl hydrazine
- (UMDH 1, 1-dimethyl hydrazine)

### CLASS I, GROUP D:
- Acetic acid
- Acetone
- Acrylonitrile
- Ammonia
- Benzene
- Butane
- 1-butanol (butyl alcohol)
- 2-butanol (secondary butyl alcohol)
- N-butyl acetate
- Isobutyl acetate
- Di-isobutylene
- Ethane
- Ethanol (ethyl alcohol)
- Ethyl acetate
- Ethyl acrylate (inhibited)
- Ethylene diamine (anhydrous)
- Ethylene dichloride
- Ethylene glycol monomethyl ether
- Gasoline
- Heptanes
- Hexanes
- Isoprene
- Isopropyl ether
- Mesityl oxide
- Methane (natural gas)
- Methanol (methyl alcohol)
- 3-methyl 1-butanol (isoamyl alcohol)
- Methyl ethyl ketone
- 2-methyl 1-propanol (isobutyl alcohol)
- 2-methyl 2-propanol (teriary butyl alcohol)
- Petroleum naptha
- Pyridine
- Octanes
- Pentanes
- 1-pentanol (amyl alcohol)
- Propane
- 1-propanol (propyl alcohol)
- 2-propanol (isopropyl alcohol)
- Propylene
- Styrene
- Toluene
- Vinyl acetate
- Vinyl chloride
- Xylenes

## CLASS II:
Combustible Dusts

### CLASS II, GROUP E
Atmospheres containing:
- Aluminum, magnesium or their commercial alloys
- Metals of similarly hazardous characteristics with a resistivity of 100 ohms per centimeter

### CLASS II, GROUP F
Atmospheres containing:
- Carbon black, charcoal, coal or coke dusts containing more than 8 percent total volatile material
- Dusts sensitized by other materials, presenting an explosion hazard and having a resistivity greater than 100 ohms per centimeter and equal to or less than 100 megohms per centimeter

### CLASS II, GROUP G
Atmospheres containing:
- Flour
- Starch
- Grain
- Combustible plastics or chemical dusts having resistivity greater than 1 megohm per centimeter

## CLASS III:
Ignitable Fibers or Flyings

Atmospheres containing:
- Rayon
- Cotton
- Other textiles

Combustible fiber manufacturing and processing plants such as:
- Cotton gins
- Cottonseed mills
- Flax processing plants
- Clothing manufacturing plants
- Sawmills
- Other woodworking locations.

Easily ignitable fibers including:
- Rayon
- Cotton (including cotton linters and cotton wastes)
- Sisal or henequen
- Istle
- Jute
- Hemp
- Tow
- Cocoa
- Oakum
- Baled waste kapok
- Spanish moss
- Excelsior
- Sawdust
- Wood chips





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# 882IS/882IS Plus

Intrinsically Safe Digital Weight Indicator




## Standard Features

- 0.8 in, seven-digit, seven-segment LCD display with white LED backlight
- Stainless steel IP66 enclosure
- T4 temperature rating
- Battery life display icon
- Excitation for four 350-ohm or eight 700-ohm load cells
- Tilt stand
- Numeric keypad (882IS Plus only)
- Duplex fiber optic interface
- Power ON/OFF; battery save mode
- Configurable local/remote mode
- I/O module option: one serial port, optional analog output, optional fieldbus cards, Ethernet TCP/IP
- Time & date (requires I/O module)
- Setpoint functionality with remote indicator
- FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 180948

## Approvals

FM APPROVED

*cULus LISTED

IECEx

*UL is only applicable to 882IS I/O and battery charger*

Rice Lake Weighing Systems® warrants that all Rice Lake Weighing Systems intrinsically safe (IS) equipment and systems installed by a qualified electrician will operate per written specifications as confirmed by the distributor/OEM and accepted by Rice Lake Weighing Systems. All systems and components are warranted against defects in materials and workmanship for one year. All Rice Lake Weighing Systems intrinsically safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured by a Rice Lake Weighing Systems factory authorized personnel. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake Weighing Systems factory authorized personnel.

⚠ CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

## Specifications

**Load Cell Excitation:**
3.0 VDC at 87.5 Ω, 4.6 VDC at 700 Ω

**Load Cell Current:**
34 mA (4 x 350 Ω load cells) or (8 x 700 Ω load cells)

**Load Cell Cabling:**
Four and six-wire with remote sensing (recommended)

**Analog Signal Input Range:**
0.6 mV/V - 4.0 mV/V

**Analog Signal Sensitivity:**
0.2 µV/graduation minimum
1.5 µV/graduation recommended

**Conversion Rate:**
60 updates/second

**Resolution:**
10,000 displayed graduations (NTEP Certified), 1,000,000 expanded
The maximum number of allowed graduations will vary by application

**Display Increments:**
1, 2, 5

**Display:**
Seven-digit, seven-segment LCD display 121 x 24 dot matrix messaging area with white LED backlight

**Decimal Point:**
Configurable with dead zeros

**Unit Switching:**
Configurable for two units of measurement with front panel operation with conversion for tare and setpoint values

**Front Panel Control Switches:**
882IS: Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop
882IS Plus: Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop, Full numeric keypad

**Front Panel:**
Ten-button plus power button flat membrane panel

**Front Panel Annunciators:**
Center Zero, Gross, Net, Motion, lb, kg, oz, g

**Motion Band:**
Configurable to ± 1 or ± 3 graduations, 1 second delay (or Off)

**Power Input:**
5.8-7.9 VDC,100-175 mA
Maximum power consumption 0.25 watts

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C) legal

**Electrical Operating Temperature:**
14° F to 104° F (-10° C to 40° C) legal

**Rating/Material:**
Stainless steel IP66 enclosure

**Optional Battery:**
Operating times: 4 x 350 Ω = 60 hrs.
1 x 350 Ω = 80-100 hrs. Charging times: 8-10 hrs

**Weight:**
6.1 lb (2.8 kg)

**Warranty:**
One-year limited warranty

**Intrinsic Safety:**
FM/cFM:
Class I,II,III, Division 1, Groups ABCDEFG T4
Class I, Zone 0 AEx/Ex ia IIC T4 Ga
Zone 20 AEx/Ex ia IIIC T135°C Da
Ta = -10°C to +40°C (14°F to 104°F)
ATEX/IECEx:
II 1 G Ex ia IIC T4 Ga
II 1 D Ex ia IIIC T135°C Da

**Approvals:**
UL/cUL Listed*
FM Entity
ATEX
IECEx
NTEP
Measurement Canada
*UL is only applicable to 882IS I/O and battery charger*



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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **882IS** | | |
| **195091** | 882IS 7.5VDC with standard tilt stand | $1,295.00 |
| **185288** | 882IS with battery and charger (North American plug) | $2,115.00 |
| **194231** | 882IS with battery and charger (EU plug) | $2,115.00 |
| **194232** | 882IS with battery and charger (UK plug) | $2,115.00 |
| **196273** | 882IS with battery and charger (AU plug) | $2,115.00 |
| **185290** | 882IS with power supply | $2,315.00 |
| **194235** | 882IS indicator with power supply and metric thread adapter | $2,360.00 |
| **882IS Plus** | | |
| **195092** | 882IS Plus 7.5VDC with standard tilt stand | $1,295.00 |
| **185291** | 882IS Plus with battery and charger (North American plug) | $2,115.00 |
| **194233** | 882IS Plus with battery and charger (EU plug) | $2,115.00 |
| **194234** | 882IS Plus with battery and charger (UK plug) | $2,115.00 |
| **196274** | 882IS Plus with battery and charger (AU plug) | $2,115.00 |
| **185293** | 882IS Plus with power supply | $2,315.00 |
| **194236** | 882IS Plus indicator with power supply and metric thread adapter | $2,360.00 |


*† US plug (NA) - Type B*

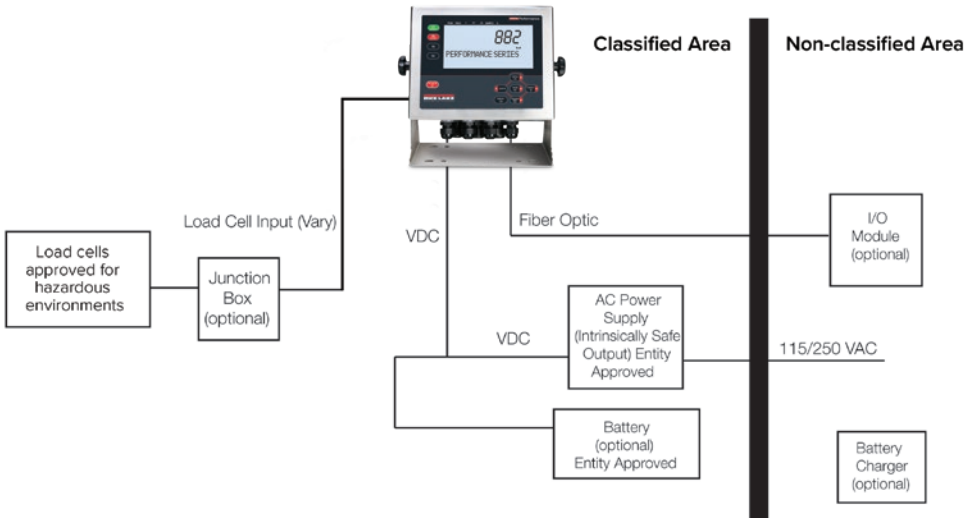

*†† Euro Plug - Type E*


*††† BS1363 (UK) - Type G*


*†††† AS 3112 (Australian) - Type I*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **180831** | Battery option, IS6V2 | $595.00 |
| **194191** | Battery charger, IS6V2, 100-240VAC NEMA 5-15 (North American plug) | $225.00 |
| **194189** | Battery charger, IS6V2 100-240VAC (EU plug) | $225.00 |
| **194192** | Battery charger, IS6V2 100-240VAC (UK plug) | $225.00 |
| **197591** | Battery charger, IS6V2 100-240VAC (Australian plug) | $225.00 |
| **180837** | Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200mA | $895.00 |
| **195109** | Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200mA, 1/2 in NPT-M20 | $945.00 |
| **179668** | Cable, M12 power 22 in hazardous location (for battery version) | $65.00 |
| **179669** | Cable, M12 power 10 ft hazardous location | $125.00 |
| **179670** | Cable, M12 power 50 ft hazardous location | $150.00 |
| **179671** | Cable, M12 power 100 ft hazardous location | $300.00 |
| **190979** | Lockout device for M12 cable | $18.00 |
| **163751** | Tilt stand, 882IS | $35.00 |
| **179678** | Tilt stand, 882IS battery option | $35.00 |
| **177850** | Panel mount option, gasketed non-NEMA seal | $175.00 |




*Complete Control Drawings available at www.ricelake.com*

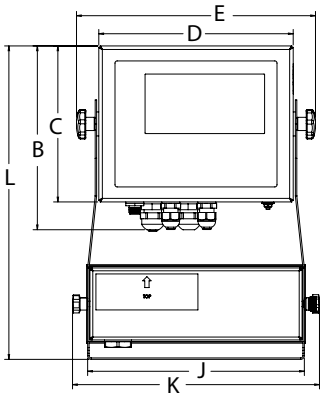


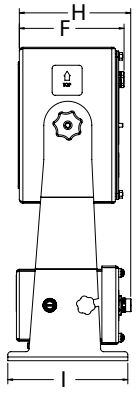

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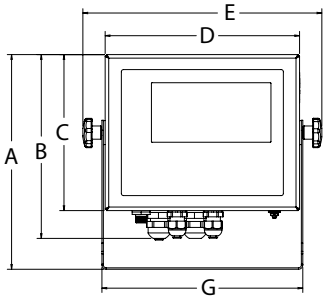
# 882IS/882IS Plus

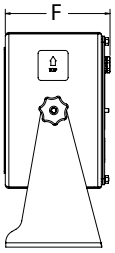
Intrinsically Safe Digital Weight Indicator

| Dimensions | | | |
|---|---|---|---|
| **Without Battery** | | | |
| A | 8.94 in (227.1 mm) | E | 9.96 in (253 mm) |
| B | 7.66 in (194.6 mm) | F | 4.36 in (110.7 mm) |
| C | 6.50 in (165.1 mm) | G | 8.37 in (212.6 mm) |
| D | 8.10 in (205.7 mm) | | |
| **With Optional Battery and Tilt Stand** | | | |
| H | 4.64 in (117.9 mm) | K | 10.29 in (261.4 mm) |
| I | 5.00 in (127 mm) | L | 13.06 in (331.7 mm) |
| J | 9.03 in (229.4 mm) | | |

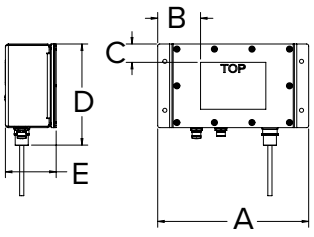


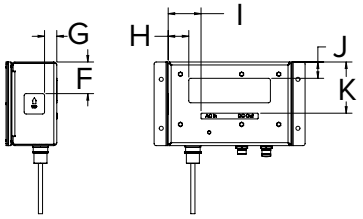




| Dimensions | | | |
|---|---|---|---|
| **Optional Power Supply** | | | |
| A | 9.25 in (235 mm) | G | 0.75 in (19.1 mm) |
| B | 2.63 in (66.8 mm) | H | 1.25 in (31.8 mm) |
| C | 1.13 in (28.7 mm) | I | 2.00 in (50.8 mm) |
| D | 6.20 in (157.5 mm) | J | 1.00 in (25.4 mm) |
| E | 3.11 in (79 mm) | K | 3.00 in (76.2 mm) |
| F | 2.00 in (50.8 mm) | | |






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## Optional I/O Module

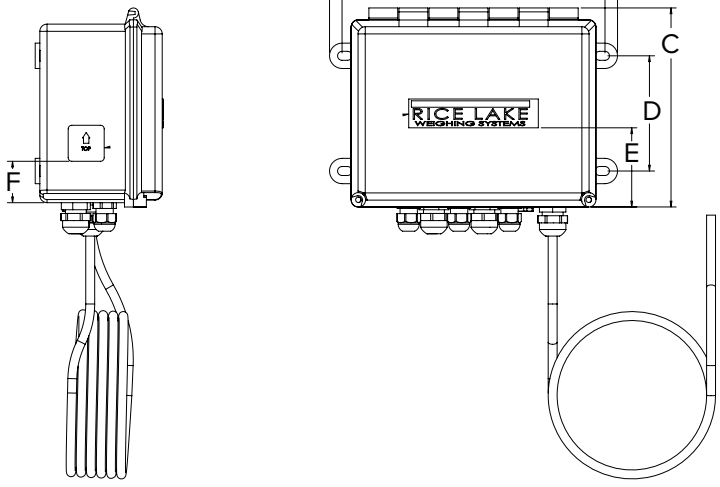
| Part # | Description | Price |
|---|---|---|
| **177709** | Module, 882 Smart I/O interface | $825.00 |
| **196166** | Module, 882 Smart I/O (EU power cord) | $825.00 |
| **196165** | Module, 882 Smart I/O (UK power cord) | $825.00 |
| **196769** | Option, Fiber/RS232 6x6 FRP Enclosure, Fiber Optic-232 converter, Ext. Power Supply | $475.00 |
| **196770** | Option,Fiber/RS422 6x6 FRP Enclosure, Fiber-RS422 converter, External Power Supply | $475.00 |
| **78026** | Cable,Plastic Optical 100 ft. includes polishing kit | $140.00 |
| **78027** | Cable,Plastic Optical 200 ft. includes polishing kit | $280.00 |
| **197384** | Kit, polishing POF cable | $50.00 |
| **Option Cards** | | |
| **190528** | Single analog output (0-10 VDC, 0-20 mA, 4-20 mA) | $360.00 |
| **190530** | 882 option, Ethernet/IP | $575.00 |
| **190531** | 882 option, DeviceNet | $575.00 |
| **190532** | 882 option, ProfiNet | $575.00 |
| **190534** | 882 option, Profibus | $575.00 |
| **190533** | 882 option, Modbus TCP | $575.00 |
| **190535** | 882 option, EtherCAT | $575.00 |
| **Remote Indicator for Setpoint Functionality** | | |
| **203343** | 920i universal indicator, 115 VAC, no A/D, with 882IS iRite software for setpoints | $2,075.00 |
| **203344** | 920i wall mount indicator, 115 VAC, no A/D, with 882IS iRtie software for setpoints | $2,675.00 |

| Dimensions | | | |
|---|---|---|---|
| **Optional I/O Module** | | | |
| A | 10.00 in (254 mm) | D | 4.00 in (101.6 mm) |
| B | 9.13 in (231.9 mm) | E | 2.75 in (69.9 mm) |
| C | 6.91 in (175.5 mm) | F | 1.50 in (38.1 mm) |










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INTRINSICALLY SAFE

# EL232 XPCD

Explosion Proof Remote Serial Display




*NOTE: Custom enclosures as requested. All explosion-proof devices are now built-to-order, so please coordinate purchase of these items with one of our application specialists.*

## Specifications

**Display:**
High-intensity, red LED, 0.8 in (20.3 mm) high digits

**Input Voltage:**
115 VAC, 60 Hz

**Weight:**
Approximately 60 lb (27.2 kg)

**NEC Classifications:**
Class I, Division 1, Groups C & D;
Class II, Division 1,
Groups E, F & G and
Class III hazardous environments

**Baud Rate:**
1200, 2400, 4800 and 9600

**Interfaces:**
20 mA current loop and RS-232

*Please consult factory for model numbers and interface requirements*

**Warranty:**
One-year limited warranty

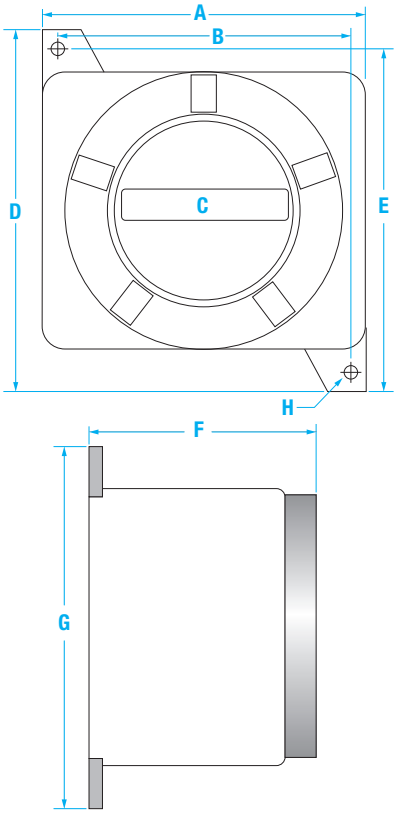
## Standard Features

- 20 mA current loop or RS-232 input
- Compatible with most Rice Lake indicators
- NEMA Type 4, 7CD, 9EFG enclosure

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **20904** | EL232 XPCD explosion proof remote serial display | 60 lb | $3,595.00 |

| Dimensions | | | |
|---|---|---|---|
| A | 10.50 in (266.7 mm) | E | 10.50 in (266.7 mm) |
| B | 9.50 in (241.3 mm) | F | 7.50 in (190.5 mm) |
| C | 5.81 in (147.7 mm) | G | 11.75 in (298.5 mm) (glass diameter) |
| D | 11.75 in (298.5 mm) | H | 7/16 in (11 mm) dia holes |




⚠ CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.



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# Intrinsic Safety Barriers




## Standard Features

- Each system features excitation, sense and signal barriers
- Available in an enclosure for external mounting or in a chassis mount version
- R Stahl® or equivalent barriers that are approved by Factory Mutual (FM)

## Specifications

**Part #31201:**
+ Excitation 9001/01-158-390-101
**Voltage Range:**
+12 VDC
**Internal Resistance:**
55 Ω
**Open Circuit Voltage:**
15.7 VDC
**Short Circuit Current:**
390 mA
**Classifications:**
FM approved, UL listed,
CSA certified, SA, CE marked

**Part #31202:**
± Excitation 9002/10-187-270-001
**Voltage Range:**
±6 VDC
**Internal Resistance:**
46 Ω
**Open Circuit Voltage:**
18.7 VDC
**Short Circuit Current:**
278.8 mA
**Classifications:**
FM approved, UL listed,
CSA- certified, SA, CE marked

**Part #31540:**
+ Excitation 9001/01-083-442-10
**Voltage Range:**
+6 VDC
**Internal Resistance:**
48 Ω
**Open Circuit Voltage:**
8.4 VDC
**Short Circuit Current:**
442 mA
**Classifications:**
FM approved, UL listed,
CSA- certified, SA, CE marked

**Part #70724:**
+ Sense 9001/01-086-020-101
**Voltage Range:**
+6 VDC
**Internal Resistance:**
470 Ω
**Open Circuit Voltage:**
8.6 VDC
**Short Circuit Current:**
18.3 mA
**Classifications:**
FM approved, UL listed,
CSA certified, SA, CE marked

**Part #30263:**
± Signal 9002/77-093-040-001
**Voltage Range:**
±6 VDC
**Internal Resistance:**
482 Ω
**Open Circuit Voltage:**
9.6 VDC
**Short Circuit Current:**
40.9 mA
**Classifications:**
FM approved, UL listed,
CSA-certified, SA, CE marked

**Part #31542:**
RS-232 9002/22-093-300-001
**Voltage Range:**
±6 VDC
**Internal Resistance:**
75.8 Ω
**Open Circuit Voltage:**
9.6 VDC
**Short Circuit Current:**
297.5 mA
**Classifications:**
FM approved, UL listed,
CSA- certified, SA, CE marked

**Part #30264:**
± Sense 9002/10-187-020-001
**Voltage Range:**
±6 VDC
**Internal Resistance:**
482 Ω
**Open Circuit Voltage:**
18.7 VDC
**Short Circuit Current:**
22 mA
**Classifications:**
FM approved, UL listed,
CSA- certified, SA, CE marked

**Part #30266:**
- Excitation 9001/00-086-390-101
**Voltage Range:**
-0.6 VDC
**Internal Resistance:**
30 Ω
**Open Circuit Voltage:**
8.6 VDC
**Short Circuit Current:**
377.6 mA
**Classifications:**
FM approved

**Part #69491:**
- Excitation 9001/02-016-150-111
**Voltage Range:**
±0.7 VDC
**Internal Resistance:**
12.8 Ω
**Open Circuit Voltage:**
1.64 VDC
**Short Circuit Current:**
127.4 mA
**Classifications:**
FM approved, UL listed,
CSA- certified, SA, CE marked





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**Part #69492:**
+ Sense 9001/01-168-020-101
**Voltage Range:**
±12 VDC
**Internal Resistance:**
898 Ω
**Open Circuit Voltage:**
16.8 VDC
**Short Circuit Current:**
18.7 mA
**Classifications:**
FM approved, UL listed,
CSA- certified, SA, CE marked

**Part #69493:**
- Sense 9001/02-016-015-101
**Voltage Range:**
+0.7 VDC
**Internal Resistance:**
127 Ω
**Open Circuit Voltage:**
1.64 VDC
**Short Circuit Current:**
13.7 mA
**Classifications:**
FM approved, UL listed,
CSA certified, SA, CE marked

**Part #72521:**
- Excitation 9001/01-199-390-101
**Voltage Range:**
+16 VDC
**Internal Resistance:**
67 Ω
**Open Circuit Voltage:**
-19.9 VDC
**Short Circuit Current:**
382.7 mA
**Classifications:**
FM approved, CSA-certified,
CE marked

**Part #30265:**
+ Excitation 9001/01-086-390-101
**Voltage Range:**
+6 VDC
**Internal Resistance:**
30 Ω
**Open Circuit Voltage:**
8.6 VDC
**Short Circuit Current:**
377.6 mA
**Classifications:**
FM approved

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Barrier Kit #1 (For models with ± 5 Volt excitation)** | | | |
| **31202** | 9002/10-187-270-001, ± Excitation barrier | 1 lb | $450.00 |
| **30264** | 9002/10-187-020-001, ± Sense barrier | 1 lb | $475.00 |
| **30263** | 9002/77-093-040-001, ± Signal barrier | 1 lb | $475.00 |
| **109663** | DIN rail mounted kit #1 (includes 31202, 30264, 30263) | 2 lb | $1,525.00 |
| **Barrier Kit #2: (For models with + 10 Volt excitation)** | | | |
| **31201** | 9001/01-158-390-101, + Excitation barrier | 1 lb | $385.00 |
| **69491** | 9001/02-016-150-111, - Excitation barrier | 1 lb | $350.00 |
| **69492** | 9001/01-168-020-101, + Sense barrier | 1 lb | $325.00 |
| **69493** | 9001/002-016-015-101, - Sense barrier | 1 lb | $375.00 |
| **30263** | 9002/77-093-040-001, ± Signal barrier | 1 lb | $475.00 |
| **Barrier Kit #3: (For models with + 5 Volt excitation)** | | | |
| **31540** | 9001/01-083-442-101, + Excitation barrier | 1 lb | $295.00 |
| **69491** | 9001/02-016-150-111, - Excitation barrier | 1 lb | $350.00 |
| **30263** | 9002/77-093-040-001, ± Signal barrier | 1 lb | $475.00 |
| **Miscellaneous Barriers:** | | | |
| **30266** | 9001/00-086-390-101, - Excitation barrier | 1 lb | $325.00 |
| **30265** | 9001/01-086-390-101, + Excitation barrier | 1 lb | $325.00 |
| **72521** | 9001-01-199-390-101, + Excitation barrier | 1 lb | $425.00 |
| **197643** | Barrier, dual channel, RS-422 | 1 lb | $435.00 |
| **31542** | 9002/77-093-300-001, RS-232 | 1 lb | $425.00 |

## Options/Accessories:

| Part # | Description | Price |
|---|---|---|
| **33531** | DIN rail, 6 in length | $10.00 |
| **35815** | IS barrier installation manual | $5.00 |
| **110424** | FRP enclosure, up to 4 barriers (not included) | $225.00 |
| **22828** | Ground terminal block | $15.00 |
| **42219** | Barrier fuse (160 mA) | $13.65 |

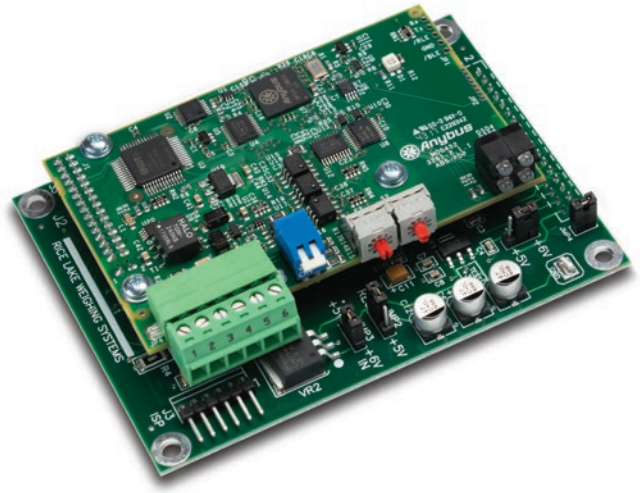

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FIELDBUS CARDS

# Profibus® DP Interface

720i™/820i®/920i®



*PN 68540*

## Standard Features

- DP intelligent device
- Standard GSD file on disk
- 128 selectable addresses
- Auto baud rate up to 56K
- Registered with Profibus Trade Organization

## Specifications

**Dimensions:**
2.0 x 1.9 x 0.75 in
(51.8 x 48 x 19.1 mm)

**Power:**
5VDC, 350 mA

**Fieldbus Interface:**
Pluggable screw connector

**Diagnostic LEDs:**
Link status and module status

**Operating Temperature:**
14°F to 158°F (-10°C to 70°C)

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **68540** | Profibus DP interface kit (internal), for use with 720i/820i/920i | 3 lb | $675.00 |

*NOTE: Because Profibus DP option boards interface with programs written by non-Rice Lake Weighing Systems parties, please consult factory for latest technical updates before quoting.*

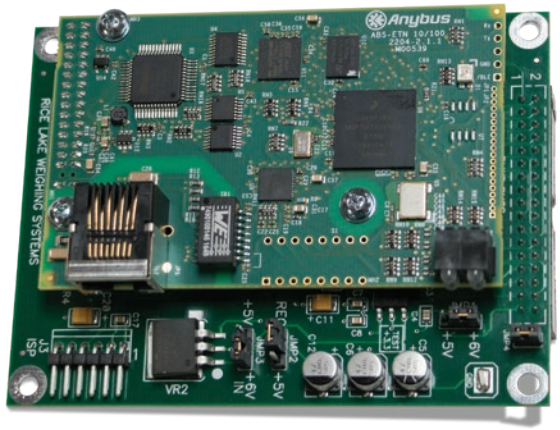
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **73754** | Additional GSD file | $35.00 |
| **69948** | Additional operating manual, (720i/820i/920i) | $40.00 |

FIELDBUS CARDS

# Profinet® I/O Interface

920i®



*PN 187816*

## Standard Features

- CE marked and UL conformance
- Onboard diagnostic LED
- Control Protocols

## Specifications

**Dimensions:**
2.13 x 3.38 x 0.59 in (86 x 54 x 15 mm)

**Power:**
5VDC, 350 mA (jumper for 6VDC)

**Fieldbus Interface:**
RJ-45

**Diagnostic LEDs:**
Link status, module status, network status, activity

**Operating Temperature:**
14°F to 158°F (-10°C to 70°C)

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **187816** | Profinet IO protocol card for 920i | $800.00 |

## Options/Accessories

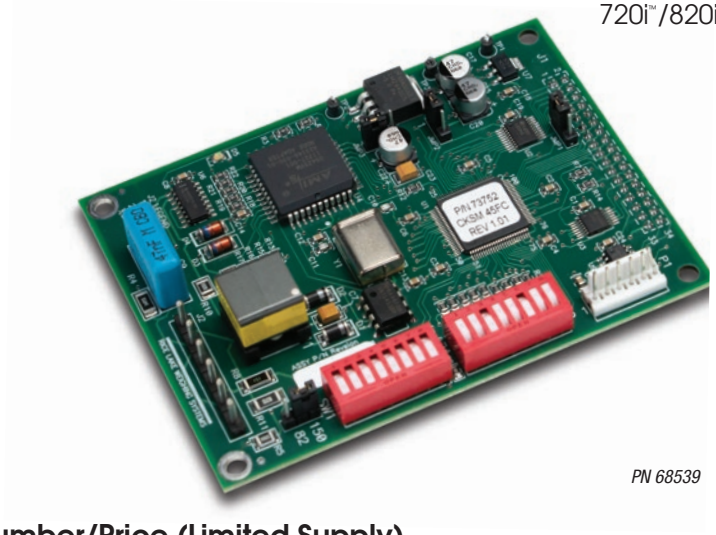
| Part # | Description | Price |
|---|---|---|
| **187907** | Additional Profinet IO operating manual | $35.00 |
| **187908** | Additional Profinet IO CD | $35.00 |



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# Remote I/O Interface

720i™/820i®/920i®



PN 68539

## Standard Features

- 115 or 230 VAC operation
- Discrete data transfer
- Block data transfer

## Specifications

**Dimensions:**
2.13 x 3.38 x 0.59 in
(86 x 54 x 15 mm)

**Power:**
5VDC, 140 mA

**Communications:**
Twin axial cable attachment to network at 57.6, 115.2 or 230.4 Kbps
Update rate is dependent on the configured baud rate and the number of network modes

**Fieldbus Interface:**
Pluggable screw connector

**Diagnostic LEDs:**
Network status

**Operating Temperature:**
14°F to 158°F (-10°C to 70°C)

## Part Number/Price (Limited Supply)

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **68539** | Allen-Bradley Remote I/O (internal), for use with 720i/820i/920i | 3 lb | $675.00 |

## Options/Accessories

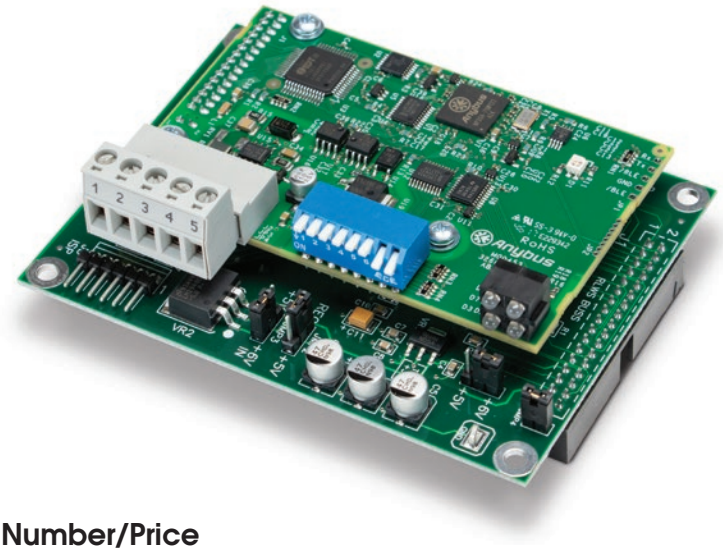
| Part # | Description | Price |
|---|---|---|
| **36254** | Additional operating manual, external version | $31.00 |
| **69950** | Additional operating manual, (720i/820i/920i) | $40.00 |

*NOTE: Because A-B Remote I/O option boards interface with programs written by non-Rice Lake Weighing Systems parties, please consult factory for latest technical updates before quoting.*



# DeviceNet™ Interface

720i™/820i®/920i®



PN 68541

## Standard Features

- DeviceNet communication adapter
- Compact size for internal installation in 720, 820i and 920i indicators
- Polled I/O connection
- 125 Kbps, 250 Kbps, and 500 Kbps baud rate
- On-board LED diagnostics
- Floating-point commands support decimal points

## Specifications

**Dimensions:**
2.13 x 3.38 x 0.59 in
(86 x 54 x 15 mm)

**Power:**
5VDC, 270 mA
Fieldbus connector requires 24V DC, ±10%

**Communications:**
Twisted-pair cabling at 125, 250, or 500 Kbps
Update rate is dependent on the configured baud rate and the number of network modes

**Fieldbus Interface:**
Pluggable screw connector

**Diagnostic LEDs:**
Network status, module status

**Operating Temperature:**
14°F to 158°F (-10°C to 70°C)

**Galvanic Isolation:**
Bus power is separated from other electronics via DC/DC converter. The send and receive signals are isolated via opto couplers

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **68541** | DeviceNet interface for use with 720i/820i/920i | 3 lb | $675.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **72779** | Additional EDS CD | $35.00 |
| **69949** | Additional operating manual | $40.00 |



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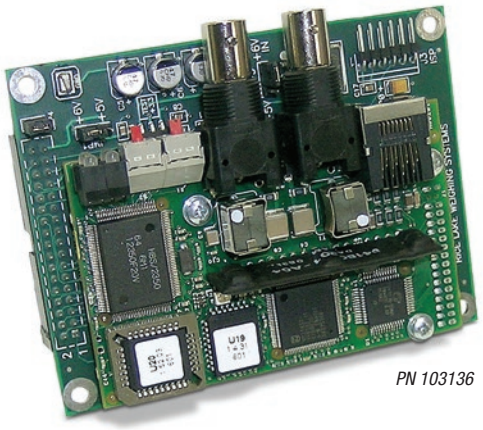


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FIELDBUS CARDS

# ControlNet™ Interface

820i®/920i®



*PN 103136*

## Standard Features

- Option for 820i and 920i
- Polled I/O connection
- Onboard LED diagnostics
- Floating-point commands support decimal points

## Specifications

**Dimensions:**
2.13 x 3.38 x 0.59 in (86 x 54 x 15 mm)

**Power:**
5VDC, 350 mA (jumper for 6VDC)

**Fieldbus Interface:**
BNC connector

**Diagnostic LEDs:**
TX/RX data, Good link, Status, Diagnostics

**Operating Temperature:**
14°F to 158°F (-10°C to 70°C)

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **103136** | ControlNet interface for use with 820i/920i | $1,000.00 |
| **Cables** | | |
| Consult factory for coaxial cable with cord grips | | |

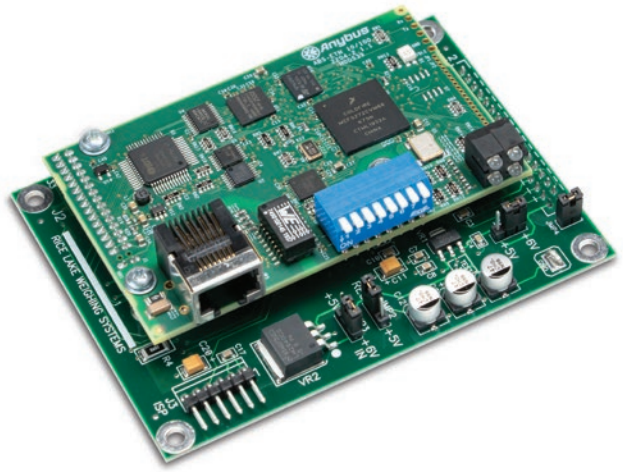
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **104828** | Additional ControlNet CD | $35.00 |
| **103122** | Additional operating manual (820i/920i) | $40.00 |

FIELDBUS CARDS

# EtherNet/IP® Interface

720i™/820i®/920i®



*PN 87803*

## Standard Features

- Industrial Protocol for Allen-Bradley PLC
- IP address settings configurable with on-board DIP switched, Web page, or ARP or DHCP
- Supports Rockwell Automation® EtherNet/IP level
- CE marked and UL conformance
- Onboard diagnostic LED
- Supports the Modbus/TCP protocol and conforms to Modbus/TCP specification 1.0

## Specifications

**Dimensions:**
2.13 x 3.38 x 0.59 in
(86 x 54 x 15 mm)

**Power:**
5VDC, 350 mA

**Fieldbus Interface:**
RJ-45

**Diagnostic LEDs:**
Link status, module status, network status, activity

**Operating Temperature:**
14°F to 158°F (-10°C to 70°C)

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **87803** | EtherNet/IP protocol card for 720i/820i/920i | $800.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **72763** | Additional EtherNet/IP CD | $35.00 |
| **88537** | Additional operating manual | $38.00 |



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# Ethernet TCP/IP Interface

720i™/820i®/920i®

## Standard Features

- Supports any serial devices with 7 or 8 data bits requiring Ethernet access
- Compact size for internal installation in 720i™, 820i® and 920i® indicators
- Can be used in other applications requiring five-volt power supplied
- 10/100 megabyte through RJ-45 connector or wireless option
- HTTP, serial, telnet and SNMP management

## Specifications

**Dimensions:**
2.0 x 1.9 x 0.75 in (52 x 49 x 19 mm)

**Power:**
5VDC, 250 mA

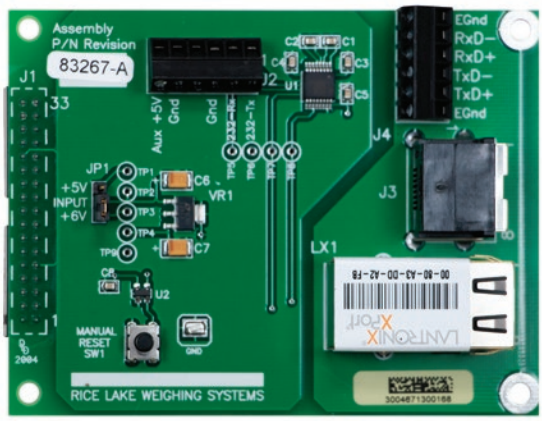
**Supported Protocols:**
ARP, UDP, TCP, Telnet, SNMP, ICMP, HTTP, BOOTP, DHCP and TFTP

**Network Interface:**
Ethernet: RJ-45 (10/100 Base-T) or AUI (transformer and resistors/capacitors required)

**Serial Line Formats:**
Characters: 7 or 8 data bits
Stop bits: 1 or 2
Parity: odd, even, none

**Data Rates:**
Single port, 300 bps to 115.2 Kbps

**Operating Temperature:**
41° F to 122° F (5° C to 50° C)




*PN 71986*

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **71986** | Ethernet TCP/IP interface for use with 720i/820i/920i | 3 lb | $400.00 |
| **98057** | Wireless Ethernet TCP/IP interface for use with 720i, 820i and 920i | 3 lb | $650.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **72763** | Ethernet CD | $35.00 |
| **72117** | Additional operating manual | $12.00 |
| **Cables** | | |
| **72697** | RJ-45 to RJ-45, straight, 7 ft length | $35.00 |
| **78860** | RJ-45 to RJ-45, cross over, 7 ft length | $35.00 |





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# Profibus® DP Interface

880/1280




## Standard Features

- DP intelligent device
- Standard GSD file on disk
- 100 selectable addresses
- Up to 12 Mbps baud rate

## Specifications

**Dimensions:**
2.0 x 1.9 x 0.75 in (52 x 49 x 19 mm)

**Power:**
3.3VDC, 250mA

**Connector Type:**
DB9, pluggable

**Operating Temperature:**
-40°F to 158°F (-40°C to 70°C)

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **179163** | Profibus DP interface kit, for use with 880 indicator | 3 lb | $575.00 |
| **165795** | Profibus DP interface kit for 1280 (single port) | 1 lb | $575.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **157941** | Additional GSD file | $35.00 |
| **156784** | Additional operating manual | $40.00 |

# Profinet® Interface

880/1280




## Standard Features

- ProfiNet communication adapter
- Onboard diagnostic LEDs
- 100 Mbps Baud Rate
- Works as an I/O device on the ProfiNet network
- PROFIenergy compliant

## Specifications

**Dimensions:**
2.0 x 1.9 x 0.75 in (52 x 49 x 19 mm)

**Power:**
3.3VDC, 250mA

**Configuration:**
GSDML file

**Connector Type:**
RJ-45 (Consult for dual-port version)

**Diagnostic LEDs:**
Network status, module status

**IP Address Range:**
Full IP address range DHCP

**Operating Temperature:**
-40°F to 158°F (-40°C to 70°C)

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **179160** | Profinet interface kit for 880 (single port) | 1 lb | $575.00 |
| **165794** | Profinet interface kit for 1280 (single port) | 1 lb | $575.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **157940** | Additional Profinet CD | $35.00 |
| **156781** | Additional operating manual | $40.00 |





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# DeviceNet™ Interface

880/1280

## Standard Features

- DeviceNet communication adapter
- DIN rail mount for installation with 880
- 125 Kbps, 150 Kbps and 500 Kbps baud rate
- Onboard LEDs

## Specifications

**Dimensions:**
2.0 x 1.9 x 0.75 in (52 x 49 x 19 mm)

**Power:**
3.3VDC, 250mA

**Connector Type:**
Pluggable screw terminal

**Diagnostic LEDs:**
Network status, module status

**IP Address Range:**
MAC ID 0-63

**Operating Temperature:**
-40°F to 158°F (-40°C to 70°C)




## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **179162** | DeviceNet interface kit for 880 | 1 lb | $575.00 |
| **165793** | DeviceNet interface kit for 1280 (single port) | 1 lb | $575.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **157945** | Additional EDS CD | $35.00 |
| **156783** | Additional operating manual | $40.00 |

# MODBUS-TCP® Interface

880/1280

## Standard Features

- Active module with serial and parallel application interface
- Complete Modbus-TCP server
- Up to 8 bytes of I/O data in each direction
- Transformer isloated interface 100 Mbps full duplex Ethernet
- Onboard diagnostic LEDs
- CE and UL compliant

## Specifications

**Dimensions:**
2.0 x 1.9 x 0.75 in
(151.8 x 48 x 19.1 mm)

**Power Requirements:**
3.3VDC, 250mA

**Connector Type:**
RJ-45 (Consult for dual-port version)

**Diagnostic LEDs:**
Link status, network status, module status

**Operating Temperature:**
-40°F to 176°F (-40°C to 85°C)




## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **179161** | Modbus-TCP Interface kit for 880 (single port) | 1 lb | $575.00 |
| **165796** | Modbus-TCP Interface kit for 1280 (single port) | 1 lb | $575.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **157939** | Additional Modbus-TCP CD | $35.00 |
| **156782** | Additional operating manual | $40.00 |





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# EtherNet/IP® Interface

880/1280




## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| 179159 | EtherNet/IP interface kit for 880 (single port) | 1 lb | $575.00 |
| 165792 | EtherNet/IP interface kit for 1280 (single port) | 1 lb | $575.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| 157943 | Additional EtherNet/IP CD | $35.00 |
| 156861 | Additional operating manual | $40.00 |

## Standard Features

- Industrial protocol for Allen-Bradley PLC
- IP address settings configurable with web page, ARP or DHCP
- Supports Allen-Bradley EtherNet/IP
- Onboard diagnostic LEDs
- CE marked and UL conformance

## Specifications

**Dimensions:**
2.0 x 1.9 x 0.75 in (52 x 49 x 19 mm)

**Power Requirements:**
3.3VDC, 250mA

**Connector Type:**
RJ-45

**Diagnostic LEDs:**
Link status, network status, module status

**IP Address Range:**
Full IP address range

**Operating Temperature:**
-40°F to 158°F (-40°C to 70°C)

# EtherCAT Interface

880/1280




## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| 179158 | EtherCAT interface kit for 880 | 1 lb | $575.00 |
| 179533 | EtherCAT interface kit for 1280 | 1 lb | $575.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| 179531 | Additional .XML CD | $35.00 |
| 164394 | Additional operating manual | $40.00 |

## Standard Features

- 2x RJ-45 EtherCAT 100 Mbit/s ports available simultaneously
- Can be wired in several topologies including star, line or tree
- Has built-in redundancy that compensates for potential breaks in wiring
- No network switches necessary, can be wired directly from device to device
- Includes self-terminating network
- Onboard diagnostic LEDs
- CE, cUL and RoHS compliant

## Specifications

**Dimensions:**
2.04 x 1.97 x 0.86 in (52 x 50 x 22 mm)

**Power:**
3.3VDC, 500mA

**Connector Type:**
RJ-45 (dual port)

**Diagnostic LEDs:**
Run status, error status

**Operating temperature:**
-40 to +158 °F (-40 to +70 °C)





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# TranSend™

Wireless Load Cell Interface System

## Specifications

**Power:**
5-6 VDC, 7-36 VDC 85-265 VAC

**Excitation Voltage:**
Transmitter: +4.8 VDC, 16x 350Ω or 32x 700Ω load cells

**Standard Antenna:**
1/2 wave 2dBi, articulated

**Frequency:**
Direct sequence spread spectrum at 2.4 GHz, 802.15.4

**Effective Range:**
100 ft or more

**Digital I/O:**
Three coil relays available on select models and 7000HD units

**Circuit Protection:**
RFI, EMI, ESD protection

**Serial Port:**
Full duplex RS-232

**Operating Temperature:**
-40°F to 185°F (-40°C to 85°C)

**Enclosure:**
NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model)
7000HD and 7001HD: IP68

**Additional RF Options:**
Wi-Fi
Bluetooth®
Cellular (consult)
802.15.4 FHSS

**Warranty:**
One-year limited warranty




*MSI-7000HD*




*TranSend*

## Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- Auto-off mode - selectable for 15, 30, 45, 60 minutes or off
- Auto-sleep mode - power down during non-use, power up with weight change or key press
- Serial communication cable included with all transmitters

## Additional HD Features

- IP68 milled aluminum enclosure
- Second radio modem available

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Transmitters** | | | |
| **5-6 VDC Power Input** | | | |
| **160330** | Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $840.00 |
| **159207** | Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $890.00 |
| **161949** | Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,015.00 |
| **176644 *** | Single-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176638 *** | Four-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176641 *** | Four-channel transmitter, includes three coil relays, Bluetooth | 2 lb | Consult |
| **176655** | Single-channel transmitter, no relays, Wi-Fi | 2 lb | $885.00 |
| **176648** | Four-channel transmitter, no relays, Wi-Fi | 2 lb | $935.00 |
| **176652** | Four-channel transmitter, includes three coil relays, Wi-Fi | 2 lb | $1,065.00 |
| **7-36 VDC Power Input** | | | |
| **160329** | Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $890.00 |
| **159470** | Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $915.00 |
| **161951** | Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,060.00 |
| **176645 *** | Single-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176639 *** | Four-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176642 *** | Four-channel transmitter, includes three coil relays, Bluetooth | 2 lb | Consult |
| **176656** | Single-channel transmitter, no relays, Wi-Fi | 2 lb | $935.00 |
| **176650** | Four-channel transmitter, no relays, Wi-Fi | 2 lb | $960.00 |
| **176653** | Four-channel transmitter, includes three coil relays, Wi-Fi | 2 lb | $1,120.00 |
| **85-265 VAC Power Input** | | | |
| **160328** | Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $915.00 |
| **159469** | Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz | 2 lb | $940.00 |
| **161950** | Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,095.00 |
| **176643 *** | Single-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176637 *** | Four-channel transmitter, no relays, Bluetooth | 2 lb | Consult |
| **176640 *** | Four-channel transmitter, includes three coil relays, Bluetooth | 2 lb | Consult |
| **176654** | Single-channel transmitter, no relays, Wi-Fi | 2 lb | $960.00 |
| **176647** | Four-channel transmitter, no relays, Wi-Fi | 2 lb | $990.00 |
| **176651** | Four-channel transmitter, includes three coil relays, Wi-Fi | 2 lb | $1,150.00 |





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# TranSend™

Wireless Load Cell Interface System

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Receivers** | | | |
| **5-6 VDC Power In put** | | | |
| **160337** | Single channel receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz | 2 lb | $890.00 |
| **160334** | Single channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, RF 802.15.4, 2.4 GHz | 2 lb | $940.00 |
| **160016** | Four channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,065.00 |
| **161941** | Single channel receiver to provide RS232 serial output | 2 lb | $695.00 |
| **160017** | Four channel receiver to provide RS232 serial output | 2 lb | $1,080.00 |
| **7-36 VDC Power Input** | | | |
| **160336** | Single channel receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4 GHz | 2 lb | $965.00 |
| **161939** | Single channel receiver to provide RS232 serial output | 2 lb | $795.00 |
| **160333** | Single channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, RF 802.15.4, 2.4 GHz | 2 lb | $1,065.00 |
| **159478** | Four channel receiver to provide RS232 serial output | 2 lb | $1,125.00 |
| **159476** | Four channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,195.00 |
| **85-265 VAC Power Input** | | | |
| **160335** | Single channel receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz | 2 lb | $1,010.00 |
| **161938** | Receiver to provide RS232 serial output | 2 lb | $850.00 |
| **160332** | Single channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, \RF 802.15.4, 2.4 GHz | 2 lb | $1,120.00 |
| **159477** | Four channel receiver to provide RS232 serial output | 2 lb | $995.00 |
| **159475** | Four channel receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz | 2 lb | $1,295.00 |
| **7000HD:** | | | |
| **177942** | MSI-7000HD 4CH 85-265VAC, 3 Coil Relays, 802.15.4 | | $1,920.00 |
| **177944** | MSI-7000HD 4CH 7-36VDC, 3 Coil Relays, 802.15.4 | | $1,885.00 |
| **177945** | MSI-7000HD 4CH 9-36VDC Iso, 3 Coil Relays, 802.15.4 | | $1,955.00 |
| **177950 *** | MSI-7000HD 4CH 85-265VAC, 3 Coil Relays, Bluetooth® | | Consult |
| **177952 *** | MSI-7000HD 4CH 7-36VDC, 3 Coil Relays,Bluetooth | | Consult |
| **177953 *** | MSI-7000HD 4CH 9-36VDC Iso, 3 Coil Relays,Bluetooth | | Consult |
| **177995** | MSI-7000HD 4CH 85-265VAC, 3 Coil Relays, WiFi | | $1,935.00 |
| **177997** | MSI-7000HD 4CH 7-36VDC, 3 Coil Relays, WiFi | | $1,895.00 |
| **177998** | MSI-7000HD 4CH 9-36VDC Iso, 3 Coil Relays, WiFi | | $1,980.00 |
| **7001HD** | | | |
| **178021** | MSI-7001HD 2CH 85-265VAC, 802.15.4 | | $1,150.00 |
| **178010** | MSI-7001HD 2CH 5-6VDC, 802.15.4 | | $1,040.00 |
| **178011** | MSI-7001HD 2CH 7-36VDC, 802.15.4 | | $1,115.00 |
| **178012** | MSI-7001HD 2CH 9-36VDC Isolated, 802.15.4 | | $1,125.00 |
| **178013 *** | MSI-7001HD 2CH 85-265VAC, Bluetooth | | Consult |
| **178014 *** | MSI-7001HD 2CH 5-6VDC, Bluetooth | | Consult |
| **178015 *** | MSI-7001HD 2CH 7-36VDC, Bluetooth | | Consult |
| **178016 *** | MSI-7001HD 2CH 9-36VDC Isolated, Bluetooth | | Consult |
| **178017** | MSI-7001HD 2CH 85-265VAC, WiFi | | $1,175.00 |
| **178018** | MSI-7001HD 2CH 5-6VDC, WiFi | | $1,125.00 |
| **178019** | MSI-7001HD 2CH 7-36VDC, WiFi | | $1,135.00 |
| **178020** | MSI-7001HD 2CH 9-36VDC Isolated, WiFi | | $1,200.00 |

** Bluetooth modems only work with certain Android devices. Please contact Rice Lake for potential applications.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **162172** | Charger, TranSend™ for 6V SLA battery | $60.00 |
| **162173** | Battery, TranSend 6V SLA | $105.00 |
| **162175** | Enclosure, TranSend for 6V SLA battery | $300.00 |
| **150964** | RS-232 13 ft (4 m) serial cable with 9-Pin (female) connector | $170.00 |
| **150965** | RS-232 13 ft (4 m) serial cable with 9-Pin (male) connector | $170.00 |
| **160109** | AC adaptor, TranSend 6V | $50.00 |
| **162178** | Antenna extension kit 5 ft coax cable | $415.00 |
| **139309** | Antenna kit, long range Omni with 3 m coax cable | $435.00 |
| **197013** | Antenna extension kit, 20 ft | $445.00 |





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## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **139310** | Antenna kit, corner reflector 9 dbi with 3 m coax cable | $430.00 |
| **139311** | Antenna kit, corner reflector 12 dbi with 3 m coax cable | $460.00 |
| **139312** | Antenna kit, Yagi 15 dbi with 3 m coax | $355.00 |
| **144345** | 30 m coaxial cable, for use with non-vehicle mount antenna kits | $405.00 |
| **139313** | Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable | $130.00 |
| **187424** | Dual xBee option kit for 7000HD with TNC connector | $180.00 |
| **162177** | Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers | $110.00 |
| **162184** | Load cell connector, TranSend, Field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers. | $55.00 |
| **162185** | Load cell connector, TranSend, Field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers. | $55.00 |
| **162186** | Load cell connector, TranSend, Field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers. | $55.00 |
| **162187** | Load cell connector, TranSend, Field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers. | $55.00 |
| **143531** | Power cord, 6 V SLA battery charger EU | $25.00 |
| **143533** | Power cord, 6 V SLA battery charger, Australia | $45.00 |
| **143534** | Power cord, 6 V SLA Battery charger, UK | $40.00 |
| **160110** | 265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China | $50.00 |
| **145085** | RS-232 serial cable, nine-pin unterminated | $110.00 |
| **164865** | Cable, 4 m, one-channel, mV/V output, LC input | $135.00 |
| **165648** | Cable, 5 m, one-channel, mV/V output, LC input | $135.00 |
| **165651** | Cable, 10 m, one-channel, mV/V output, LC input | $195.00 |
| **145084** | Cable, 2 m, one-channel, analog output | $55.00 |
| **144400** | Cable, 5 m, one-channel, analog output | $85.00 |
| **168903** | Cable, 10 m, one-channel, analog output | $125.00 |
| **Consult** | Straight connector, analog output, field wire able, 4-6 mM OD | Consult |
| **Consult** | Straight connector, analog output, field wire able, 6-8 mM OD | Consult |
| **Consult** | Right angle connector, analog output, field wire able, 4-6 mM OD | Consult |
| **Consult** | Right angle connector, analog output, field wire able, 6-8 mM OD | Consult |
| **184002** | 7000HD Half-plate mounted, FHSS, DC (battery) powered (half plate battery power supply sold separately) | Consult |
| **182244** | GoDex portable printer (compatible with android tablet app) | Consult |





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# SendIt™ Wireless Load Cell Interface System




## Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired and will not interfere with another set
- Auto-off mode: Selectable for 15, 30, 45, 60 minutes or off
- Auto-sleep mode: Power down during non-use, power up with weight change or key press
- RS-232 cable included with transmitter and paired set

## Specifications

**Power:**
5-6 VDC

**Excitation Voltage:**
Transmitter: +4.8 VDC, 16x 350Ω or 32x 700Ω load cells

**Standard Antenna:**
1/2 wave 2dBi, articulated

**Frequency:**
Direct sequence spread spectrum at 2.4 GHz, 802.15.4 license free

**Effective Range:**
100 ft or more

**Circuit Protection:**
RFI, EMI, ESD protection

**Serial Port:**
Full duplex RS-232

**Operating Temperature:**
-40°F to 185°F (-40°C to 85°C)

**Enclosure:**
NEMA Type4 (IP66), aluminum black powder coated (excludes wall cube model)

**Warranty:**
Two-year limited warranty

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Transmitters** | | | |
| **5-6 VDC Power Input** | | | |
| **160331** | Single-channel transmitter, 5-6 VDC no relays. RF 802.15.4, 2.4 GHz 5-6 VDC | 2 lb | $815.00 |
| **Receivers** | | | |
| **5-6 VDC Power Input** | | | |
| **160338** | Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4 GHz 5-6 VDC Power Unit | 2 lb | $840.00 |
| **Paired Set** | | | |
| **5-6 VDC Power Input** | | | |
| **165312** | Includes one single-channel transmitter and one receiver, paired. Includes an RS-232 cable, a 2 m load cell cable and 2 m indicator cable/ Power source sold separately | 5 lb | $1,725.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **162172** | Charger, SendIt 6 V SLA battery | $60.00 |
| **162173** | Battery, SendIt 6 V SLA | $105.00 |
| **162175** | Enclosure, SendIt for 6 V SLA battery | $300.00 |
| **145548** | Cord set, 13 ft (4 m) | Consult |
| **150964** | RS-232 13 ft (4 m) serial cable with nine-pin (female) connector | $170.00 |
| **150965** | RS-232 13 ft (4 m) serial cable with nine-pin (male) connector | $170.00 |
| **160109** | AC adapter, SendIt 6V | $50.00 |
| **162177** | Cordset. Pre-wired for use with single channel transmitters or non-relay based receivers | $110.00 |
| **162184** | Load cell connector. Field wireable, 4-6 mm straight. For use with single channel transmitters | $55.00 |
| **162185** | Load cell connector. Field wireable, 6-8 mm straight. For use with single channel transmitters | $55.00 |
| **162186** | Load cell connector. Field wireable, 4-6 mm right angle. For use with single channel transmitters | $55.00 |
| **162187** | Load cell connector. Field wireable, 6-8 mm right angle. For use with single channel transmitters | $55.00 |
| **162178** | Antenna kit, remote standard antenna, 5 ft | $415.00 |
| **139309** | Antenna kit, long range Omni with 3 m coax | $435.00 |
| **139310** | Antenna kit, corner reflector 9 dbi with 3 m coax | Consult |
| **139311** | Antenna kit, corner reflector 12 dbi with 3 m coax | Consult |
| **139312** | Antenna kit, Yagi 15 dbi with 3 m coax | Consult |





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# ConnexLink™

Wireless Radio 900 MHZ Transceivers

## Specifications

**Frequency Band:**
902-928 MHz

**Modulation:**
FHSS FSK

**Interface:**
Standard: RS-232 (DB9 Male)
ConnexLink PRO: RS-485 (6-Pin terminal block)

**Serial Interface Data Rate:**
Up to 115200 kbps

**Output Power:**
5 mW-1000 mW variable

**Input Power:**
7 VDC-18 VDC

**Current Draw (at 12 VDC):**
400 mA TXD, 40 mA RXD

**Power Supply:**
AC transformer via 6 ft cable (183 cm)

**Electrical Requirements:**
Line voltage 100-120 V; frequency 50-60 Hz (240 V outside the US)

**Channels:**
32 selectable channels

**Security:**
1-byte system ID, DES

**Sensitivity:**
-99dB at full RF data rate

**Range (line-of-sight):**
Up to 20 miles (32 km)

**Temperature:**
-40°F to 176°F (-40ºC to 80°C)

**Humidity (non-condensing):**
10% to 90%

**Weight:**
<6 oz (<170 g)

**Dimensions:**
4.75 x 2.75 x 1.17 in (121 x 70 x 30 mm)

**Antenna Connector:**
Reverse polarity SMA jack (female)



*Wireless Network*

## Standard Features

- Durable industrial-grade enclosure with mounting flanges
- Reliable communications up to 115200 kbps
- Supports point-to-point and point-to-multipoint applications

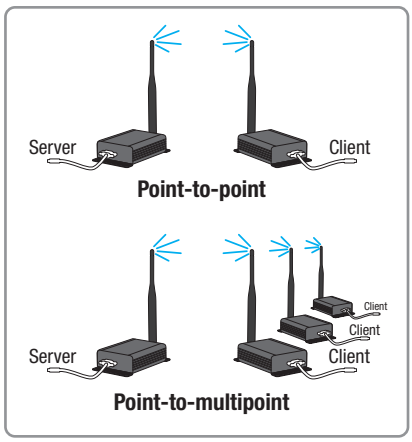
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **86134** | ConnexLink RF device 900 MHz RF device server/client (requires minimum of 2) | $325.00 |
| **105776** | ConnexLink Pro 900 MHz 1W, wireless transceiver with large buffer | $395.00 |
| **129662** | Paired ConnexLink | $650.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **78827** | Power supply, 115 VAC input/6 VDC output | $55.00 |
| **103979** | Antenna 1/2 Wave, 2 dbi, 7 in for 900 MHz radios | $45.00 |
| **119448** | Yagi antenna | $105.00 |
| **119449** | Cable, Yagi antenna 20 ft* | $75.00 |
| **110538** | ConnexLink FRP enclosure with heater | $1,395.00 |
| **110539** | ConnexLink Pro enclosure with heater | $1,395.00 |
| **22436** | RS-232 nine-pin female to blunt end | $65.00 |
| **98084** | DC power cable option | $15.00 |

** max length per manufacturer specs*

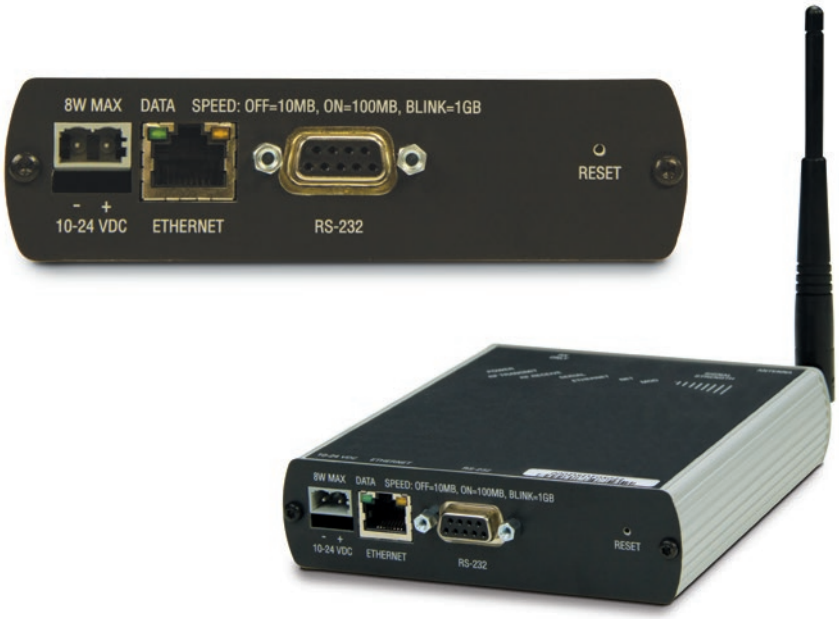







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# Industrial Broadband Wireless Ethernet




## Standard Features

- Serial and Ethernet connectivity
- Configures as 802.11 a/b/g access point, wireless bridge, wireless repeater and client
- Secure WPA2/128 bit encryption
- Dual band 2.4 GHz or 5 GHz bands
- Robust design for extreme temperatures (-40˚ to 75˚C) high vibration/shock and hazardous locations (UL Class 1, Division 2, Atex Zone 2)

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **166630** | Industrial hot spot, 802.11abg* | $1,745.00 |
| **161954** | Industrial hot spot in FRP enclosure* | $2,795.00 |
| **161955** | Paired radios for serial data tunneling* | $3,490.00 |

**Special ordered power supplies and antennas required*

| Dimensions FRP Enclosure | | | |
|---|---|---|---|
| A | 8.5 in (216 mm) | B | 10.5 in (267 mm) |

## Specifications

**Frequency Band (varies by country):**
2.412 GHz to 2.462 GHz (FCC)
2.412 GHz to 2.472 GHz (ETSI)
5.150 GHz to 5.250 GHz (FCC/ETSI)
5.725 GHz to 5.850 GHz (FCC)

**Wireless Standards:**
802.11a, 802.11b, 802.11g and 802.11i

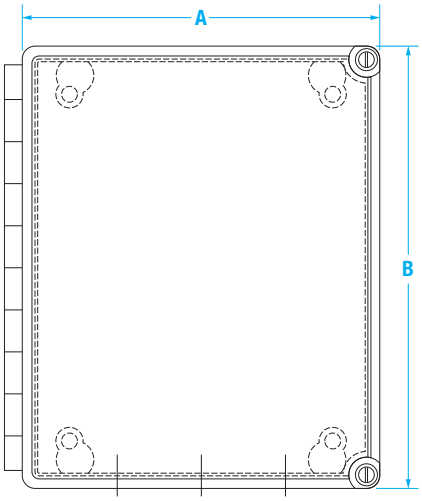
**Transmit Power; Programmable (varies by country):**
2.4 GHz: up to 100 mW (20 dBm)
5 GHz: up to 64 mW (18 dBm)

**Channel Data Rates (modulation):**
802.11b, 11, 5.5, 2, 1 Mbps (DSSS, BPSK, QPSK, CCK)
802.11g: 54, 48, 36, 24, 18,12, 9, 6 Mbps (OFDM)
802.11a: 54, 48, 36, 24, 18, 9, 6 Mbps (OFDM)

**Receiver Sensitivity (Typical):**
-90 dBm at 1 Mbps
-85 dBm at 11 Mbps
-82 dBm at 24 Mbps
-75 dBm at 54 Mbps

**Channels Selection (varies by country):**
1 to 13 (802.11a)

**Security:**
WPA2 - 802.11i with 128 bit AES-CCM legacy WPA TKIP, WEP support MAC ID filter, admin password






*161954 Industrial Hot Spot*





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# Aluminum Keypads

## For Use With:

- Kiosk systems
- 920i with custom software



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **36914** | Vandal-proof cast aluminum keypad | $155.00 |
| **38472** | Keypad encoder | $405.00 |

# Visible Lights and Audible Alarms

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Visible Lights and Audible Alarms** | | |
| **22838** | Buzzer, 80 dB, steady | $135.00 |
| **22839** | Buzzer, 80 dB, pulse | $135.00 |
| **156106** | Buzzer box, 115 VAC, FRP enclosure | $595.00 |
| **43931** | Strobe lights, red | $155.00 |
| **43930** | Strobe lights, amber | $155.00 |
| **43929** | Strobe lights, blue | $155.00 |

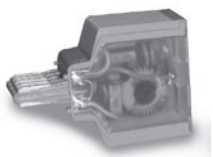


*Product may vary from photo (reference photo only)*

# Din Rail Transient Protector & Fuse

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Din Rail Transient Protector and Fuse** | | |
| **62965** | Terminal block | $25.00 |
| **53895** | Surge suppressor | $205.00 |



*Surge Suppressor*



*Terminal Block*

# Manual Pushbuttons/Pushbutton Switches

- Key switches
- Lighted pushbuttons
- Pilot lights
- Two- and three-position switches
- Colored pushbuttons
- Emergency stop mushroom switches
- Custom legend plates

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Manual Pushbuttons/Pushbutton Switches** | | |
| **N/A** | Operator and contact block combinations | Consult |







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# Tripp-Lite USB to Serial Converters

Serial Adapters




## Specifications

**Data Transfer Rate:**
More than 500 kbps

**LED:**
Data transfer/handshaking (orange)

**Power Consumption:**
450 mW

**USB Specification:**
V1.1 compliant

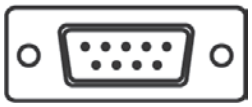
## Standard Features

- Portable design—no AC power required
- Simple plug-and-play setup
- Supports data transfer rates of more than 500 kbps
- Hot swappable

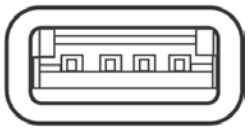
## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **153603** | USB to serial converter | 1 lb | $91.00 |
| **22436** | Cable DB9F to blunt end, 6 ft | 1 lb | $65.00 |

| DB-9 PIN Assignments: | | | | |
|---|---|---|---|---|
| **PIN** | **Assignment** | | **PIN** | **Assignment** |
| 1 | CD | | 6 | DSR |
| 2 | RXD | | 7 | RTS |
| 3 | TXD | | 8 | CTS |
| 4 | DTR | | 9 | RI |
| 5 | GND | | | |



*DB9 (Male) Connector*



*Type A USB Connector*





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# Amphenol® RJF 544

Harsh Environment Ethernet Connection System

## Specifications

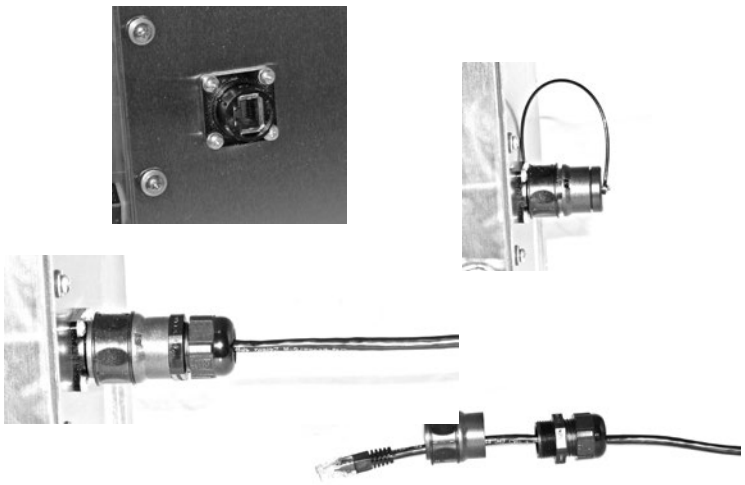
**Data Transmission:**
10Base-T, 100Base-TX and 1000Base-T networks
Category 5e per TIA/EIA 568B and
ClassD per ISO/IEC 11801

**Mechanical:**
Quick push/pull coupling
RJ-45 cordset retention in the plug: 100N in the axis
Mating cycles: 500 min

**Environmental Protection:**
Sealing: IP67
Salt Spray > 1000h
Fire retardant/low smoke: UL94 V0 and NFF 16
16102, DIN 5510-2
Vibrations: 10-500 Hz, 10g, 3 axes:
no discontinuity > 10 nanos
Thermal Shock: 5 cycles at -40° C / +100° C

**Operating Temperature:**
-40°F to 185°F (-40°C to 85°C)

**Applications:**
Telecom equipment, video control, robotics, industrial process control, CNC machines, motion control, tele-maintenance



## Standard Features

- Allows an Ethernet Class D/Category 5e connection for 10Base-T, 100Base-TX, or 1000Base-T networks in harsh environments
- Sealed against fluids and dusts (IP67)
- Shock, vibration and traction resistant
- No cabling operation in the field
- No tools required
- Improved EMI protection
- Uses a standard RJ-45 cordset in protective composite plug to protect from shocks, dust and fluids
- In-field cabling and grounding not necessary

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **87326** | RJF 544 kit | $155.00 |
| **87285** | Square flange female connector | $35.00 |
| **87286** | Dust cap for harsh environment receptacles | $35.00 |
| **87287** | Gasket for harsh environment receptacles | $5.00 |
| **87288** | Ethernet plug | $35.00 |
| **87289** | Dust cap for harsh environment plugs | $35.00 |





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# AbleCable®

RS 232/USB Serial Smart Cable Direct, Keyboard Input Direct



## Specifications

**Baud Rate:**
9600

**Color:**
Black

**Cable Length:**
74 in (1880 mm)

**Bluetooth Cable Length:**
16 in (406 mm)

**Power:**
USB power, no external power supply

**Host:**
PC and MAC compliant

**Connection:**
DB9 male connector, Pin 2 RX, Pin 3 TX and Pin 5 Ground USBA connector

## Standard Features

- Converts serial data such as barcode reader or scale into keyboard input to software program
- Works with PC and MAC® computers
- Requires no driver installation (identifies itself as additional HID keyboard)
- Cable draws power from USB port (no external power supply needed)
- Test cable to be connected with adaptor scale cable or connector
- Bluetooth® version allows Bluetooth® connection to devices like iPad®, Playbook, Android® tablets and smart cell phones

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **119919** | RS-232/USB serial cable | 1 lb | $185.00 |
| **132452** | RS-232/USB serial cable plus Bluetooth® | 1 lb | $260.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **119064** | Slimline null modem, gender changer DB9 female to female | $10.50 |
| **22436** | Blunt-end to DB9 female, straight cable | $65.00 |
| **50749** | DB9 female to DB9 female | $55.00 |
| **130789** | Null model DB9 adapter female to male | $12.00 |





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## Specifications

**Baud Rate:**
9600

**Data Bits:**
8

**Parity:**
None

**Power:**
Requires 5 VDC

**Customer Supplied:**
Power and USB flash drive

**Industrial Enclosure Option:**
7.5 x 7.5 x 4.5 in (19 x 19 x 12 cm)
Latch for lock

**Warranty:**
One-year limited warranty




## Standard Features

- LED onboard for testing data transmission
- Captures data and stores it on a USB flash drive (up to 8 GB not included)
- Transfer data to your PC using the USB flash drive
- Text file examples (actual text will be dependent on transmitted file)
- 02:50PM
  11/13/2012
  GROSS 58 lb
- 02:50PM
  11/13/2012
  GROSS 68 lb

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **153265** | go-between board | $410.00 |
| **153266** | go-between industrial enclosure | $600.00 |
| **153267** | go-between desk enclosure | $500.00 |
| **158778** | go-between desk enclosure, EU power supply | $500.00 |

## Options and Accessories

| Part # | Description | Price |
|---|---|---|
| **154797** | Adapter, power 5 VDC 2A 90-264 VAC, U.S. plug, UL/cUL | $35.00 |
| **170935** | Overlay, desk | $75.00 |





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# 882IS/882IS Plus

Intrinsically Safe Digital Weight Indicator




## Standard Features

- 0.8 in, seven-digit, seven-segment LCD display with white LED backlight
- Stainless steel IP66 enclosure
- T4 temperature rating
- Battery life display icon
- Excitation for four 350-ohm or eight 700-ohm load cells
- Tilt stand
- Numeric keypad (882IS Plus only)
- Duplex fiber optic interface
- Power ON/OFF; battery save mode
- Configurable local/remote mode
- I/O module option: one serial port, optional analog output, optional fieldbus cards, Ethernet TCP/IP
- Time & date (requires I/O module)
- Setpoint functionality with remote indicator
- FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 180948

## Approvals

FM APPROVED

*cULus LISTED

IECEx

*UL is only applicable to 882IS I/O and battery charger*

Rice Lake Weighing Systems® warrants that all Rice Lake Weighing Systems intrinsically safe (IS) equipment and systems installed by a qualified electrician will operate per written specifications as confirmed by the distributor/OEM and accepted by Rice Lake Weighing Systems. All systems and components are warranted against defects in materials and workmanship for one year. All Rice Lake Weighing Systems intrinsically safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured by a Rice Lake Weighing Systems factory authorized personnel. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake Weighing Systems factory authorized personnel.

⚠ CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

## Specifications

**Load Cell Excitation:**
3.0 VDC at 87.5 Ω, 4.6 VDC at 700 Ω

**Load Cell Current:**
34 mA (4 x 350 Ω load cells) or (8 x 700 Ω load cells)

**Load Cell Cabling:**
Four and six-wire with remote sensing (recommended)

**Analog Signal Input Range:**
0.6 mV/V - 4.0 mV/V

**Analog Signal Sensitivity:**
0.2 µV/graduation minimum
1.5 µV/graduation recommended

**Conversion Rate:**
60 updates/second

**Resolution:**
10,000 displayed graduations (NTEP Certified), 1,000,000 expanded
The maximum number of allowed graduations will vary by application

**Display Increments:**
1, 2, 5

**Display:**
Seven-digit, seven-segment LCD display 121 x 24 dot matrix messaging area with white LED backlight

**Decimal Point:**
Configurable with dead zeros

**Unit Switching:**
Configurable for two units of measurement with front panel operation with conversion for tare and setpoint values

**Front Panel Control Switches:**
882IS: Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop
882IS Plus: Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop, Full numeric keypad

**Front Panel:**
Ten-button plus power button flat membrane panel

**Front Panel Annunciators:**
Center Zero, Gross, Net, Motion, lb, kg, oz, g

**Motion Band:**
Configurable to ± 1 or ± 3 graduations, 1 second delay (or Off)

**Power Input:**
5.8-7.9 VDC,100-175 mA
Maximum power consumption 0.25 watts

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C) legal

**Electrical Operating Temperature:**
14° F to 104° F (-10° C to 40° C) legal

**Rating/Material:**
Stainless steel IP66 enclosure

**Optional Battery:**
Operating times: 4 x 350 Ω = 60 hrs.
1 x 350 Ω = 80-100 hrs. Charging times: 8-10 hrs

**Weight:**
6.1 lb (2.8 kg)

**Warranty:**
One-year limited warranty

**Intrinsic Safety:**
FM/cFM:
Class I,II,III, Division 1, Groups ABCDEFG T4
Class I, Zone 0 AEx/Ex ia IIC T4 Ga
Zone 20 AEx/Ex ia IIIC T135°C Da
Ta = -10°C to +40°C (14°F to 104°F)
ATEX/IECEx:
II 1 G Ex ia IIC T4 Ga
II 1 D Ex ia IIIC T135°C Da

**Approvals:**
UL/cUL Listed*
FM Entity
ATEX
IECEx
NTEP
Measurement Canada
*UL is only applicable to 882IS I/O and battery charger*



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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **882IS** | | |
| **195091** | 882IS 7.5VDC with standard tilt stand | $1,295.00 |
| **185288** | 882IS with battery and charger (North American plug) | $2,115.00 |
| **194231** | 882IS with battery and charger (EU plug) | $2,115.00 |
| **194232** | 882IS with battery and charger (UK plug) | $2,115.00 |
| **196273** | 882IS with battery and charger (AU plug) | $2,115.00 |
| **185290** | 882IS with power supply | $2,315.00 |
| **194235** | 882IS indicator with power supply and metric thread adapter | $2,360.00 |
| **882IS Plus** | | |
| **195092** | 882IS Plus 7.5VDC with standard tilt stand | $1,295.00 |
| **185291** | 882IS Plus with battery and charger (North American plug) | $2,115.00 |
| **194233** | 882IS Plus with battery and charger (EU plug) | $2,115.00 |
| **194234** | 882IS Plus with battery and charger (UK plug) | $2,115.00 |
| **196274** | 882IS Plus with battery and charger (AU plug) | $2,115.00 |
| **185293** | 882IS Plus with power supply | $2,315.00 |
| **194236** | 882IS Plus indicator with power supply and metric thread adapter | $2,360.00 |


*† US plug (NA) - Type B*

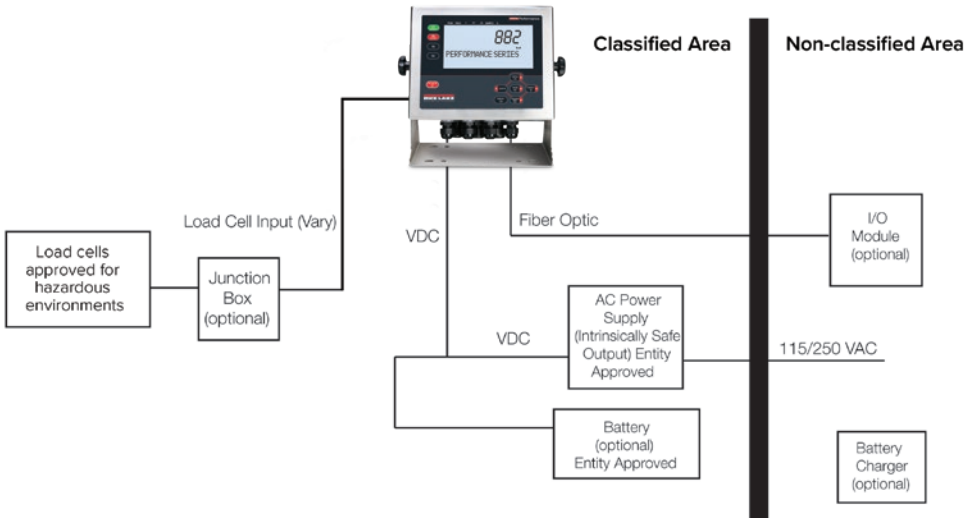

*†† Euro Plug - Type E*


*††† BS1363 (UK) - Type G*


*†††† AS 3112 (Australian) - Type I*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **180831** | Battery option, IS6V2 | $595.00 |
| **194191** | Battery charger, IS6V2, 100-240VAC NEMA 5-15 (North American plug) | $225.00 |
| **194189** | Battery charger, IS6V2 100-240VAC (EU plug) | $225.00 |
| **194192** | Battery charger, IS6V2 100-240VAC (UK plug) | $225.00 |
| **197591** | Battery charger, IS6V2 100-240VAC (Australian plug) | $225.00 |
| **180837** | Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200mA | $895.00 |
| **195109** | Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200mA, 1/2 in NPT-M20 | $945.00 |
| **179668** | Cable, M12 power 22 in hazardous location (for battery version) | $65.00 |
| **179669** | Cable, M12 power 10 ft hazardous location | $125.00 |
| **179670** | Cable, M12 power 50 ft hazardous location | $150.00 |
| **179671** | Cable, M12 power 100 ft hazardous location | $300.00 |
| **190979** | Lockout device for M12 cable | $18.00 |
| **163751** | Tilt stand, 882IS | $35.00 |
| **179678** | Tilt stand, 882IS battery option | $35.00 |
| **177850** | Panel mount option, gasketed non-NEMA seal | $175.00 |




*Complete Control Drawings available at www.ricelake.com*

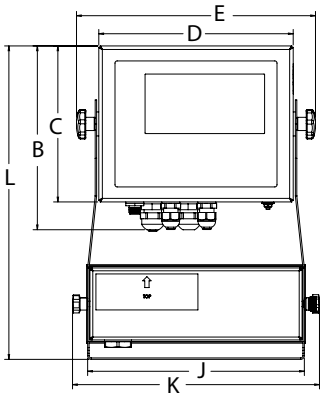


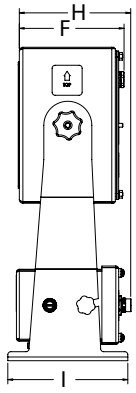

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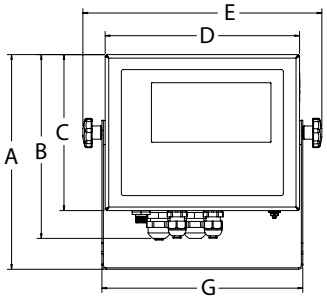
# 882IS/882IS Plus

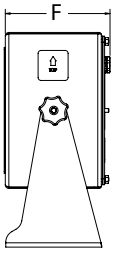
Intrinsically Safe Digital Weight Indicator

| Dimensions | | | |
|---|---|---|---|
| **Without Battery** | | | |
| A | 8.94 in (227.1 mm) | E | 9.96 in (253 mm) |
| B | 7.66 in (194.6 mm) | F | 4.36 in (110.7 mm) |
| C | 6.50 in (165.1 mm) | G | 8.37 in (212.6 mm) |
| D | 8.10 in (205.7 mm) | | |
| **With Optional Battery and Tilt Stand** | | | |
| H | 4.64 in (117.9 mm) | K | 10.29 in (261.4 mm) |
| I | 5.00 in (127 mm) | L | 13.06 in (331.7 mm) |
| J | 9.03 in (229.4 mm) | | |

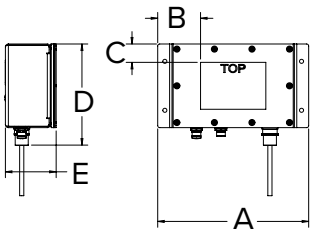


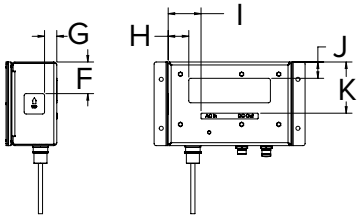




| Dimensions | | | |
|---|---|---|---|
| **Optional Power Supply** | | | |
| A | 9.25 in (235 mm) | G | 0.75 in (19.1 mm) |
| B | 2.63 in (66.8 mm) | H | 1.25 in (31.8 mm) |
| C | 1.13 in (28.7 mm) | I | 2.00 in (50.8 mm) |
| D | 6.20 in (157.5 mm) | J | 1.00 in (25.4 mm) |
| E | 3.11 in (79 mm) | K | 3.00 in (76.2 mm) |
| F | 2.00 in (50.8 mm) | | |






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## Optional I/O Module

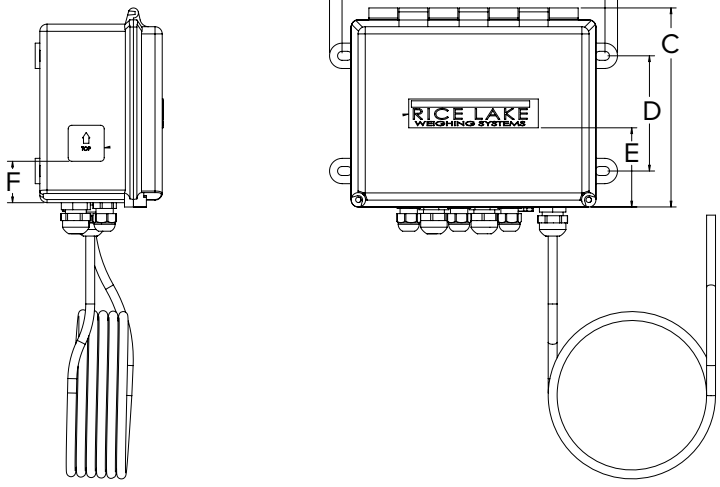
| Part # | Description | Price |
|---|---|---|
| **177709** | Module, 882 Smart I/O interface | $825.00 |
| **196166** | Module, 882 Smart I/O (EU power cord) | $825.00 |
| **196165** | Module, 882 Smart I/O (UK power cord) | $825.00 |
| **196769** | Option, Fiber/RS232 6x6 FRP Enclosure, Fiber Optic-232 converter, Ext. Power Supply | $475.00 |
| **196770** | Option,Fiber/RS422 6x6 FRP Enclosure, Fiber-RS422 converter, External Power Supply | $475.00 |
| **78026** | Cable,Plastic Optical 100 ft. includes polishing kit | $140.00 |
| **78027** | Cable,Plastic Optical 200 ft. includes polishing kit | $280.00 |
| **197384** | Kit, polishing POF cable | $50.00 |
| **Option Cards** | | |
| **190528** | Single analog output (0-10 VDC, 0-20 mA, 4-20 mA) | $360.00 |
| **190530** | 882 option, Ethernet/IP | $575.00 |
| **190531** | 882 option, DeviceNet | $575.00 |
| **190532** | 882 option, ProfiNet | $575.00 |
| **190534** | 882 option, Profibus | $575.00 |
| **190533** | 882 option, Modbus TCP | $575.00 |
| **190535** | 882 option, EtherCAT | $575.00 |
| **Remote Indicator for Setpoint Functionality** | | |
| **203343** | 920i universal indicator, 115 VAC, no A/D, with 882IS iRite software for setpoints | $2,075.00 |
| **203344** | 920i wall mount indicator, 115 VAC, no A/D, with 882IS iRtie software for setpoints | $2,675.00 |

| Dimensions | | | |
|---|---|---|---|
| **Optional I/O Module** | | | |
| A | 10.00 in (254 mm) | D | 4.00 in (101.6 mm) |
| B | 9.13 in (231.9 mm) | E | 2.75 in (69.9 mm) |
| C | 6.91 in (175.5 mm) | F | 1.50 in (38.1 mm) |










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# In-Motion Weighing

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**MOTOWEIGH® CASCADE CHECKWEIGHER** ..... **633**
*Gravity Drop Checkweigher*

**MOTOWEIGH® INTEGRATOR** ..... **634**

**A&D INSPECTION** ..... **635**
*In-Motion Checkweigher and Metal Detector*

**MOTOWEIGH® ROLLER TOP SCALE** ..... **637**
*Manual Roller Top Checkweigher*


**ESPAÑOL** | Visite **ricelake.com/spanish** para ver todos los materiales Rice Lake que están disponibles en español.


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# MotoWeigh® IMW-HD

Heavy Duty In-Motion Conveyor Scale



*18 in x 36 in MotoWeigh IMW-HD with 16 in x 12 in painted mild steel control panel*

## Standard Features

**Software**

- Four levels of security
- Real-time statistical information
- Product report
- Statistical report
- Parameter report
- User report
- Store up to 1,000 different products
- Five zone classification

**Hardware**

- Industrial mild steel powder coated frame
- Adjustable conveyor height 2 in coarse adjustment from floor to top of belt is 26 to 40 ± 2.5 inches of fine adjustment or 38 to 52 in ± 2.5 in of fine adjustment with optional leg extension kit
- Industrial belting Black PVC 120 V-Guide
- Industrial scale

**Available conveyor sizes and capacities**

- 14 in x 28 in 80 lb capacity conveyor scale
- 18 in x 36 in 150 lb capacity conveyor scale
- 24 in x 48 in 200 lb capacity conveyor scale
- 36 in x 60 in 200 lb capacity conveyor scale

## APPROVALS

c UL us LISTED

*Optional*

## Specifications

**Control Panel:**
Mild steel, or NEMA Type 4X IP 66 304 SST non-direct food contact

**Configurations:**
Checkweigher or conveyor scale

**Product Types:**
Boxes, bags, trays, tubs, cups, buckets, totes

**Container Weights:**
Up to 200 lb
Resolution down to 0.05 lb or better (dependent on scale capacity)

**Belt:**
Black PVC 120 with SST zipper splice for easy removal

**Motor:**
1/2 HP 230 V 3 phase motorized drive pulley (may vary depending on capacity)

**Speed:**
Up to 150 ft per minute

**Power Configuration:**
110 VAC single phase, 50/60 Hz
208, 230, 460 (3 phase)

**Approvals:**
Optional: UL 508

**Warranty:**
Two-year limited warranty
(excludes powertrain and wear parts)

## Options:

- One, three or five zone communication tower
- Audible alarm (non-washdown only)
- Pull cord E-stops
- Portability package
- Conveyor guide rails (round or flat)
- Custom programming available
- UL 508 control panel
- Metal detection
- Filling machine feedback
- Ethernet IP
- Power configuration 110, 208, 230 (single phase or 3 phase), 460 (3 phase)
- 1280 Controller
- Pedestal for control panel

**Due to the variety of configurations, please consult a sales engineer to discuss application requirements and for complete specifications and price quotations.**

**Field installation available at pre-determined rates.**

**Questionnaire available at www.ricelake.com/motoweigh**



*20 in x 20 in stainless steel control panel with dual variable speed control option for MotoWeigh IMW-HD*



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# MotoWeigh® IMW

In-Motion Conveyor Scale and Checkweigher



## Standard Features

**Software**

- Four levels of security
- Real-time statistical information
- Product report
- Statistical report
- Parameter report
- User report
- Store up to 1,000 different products
- Five zone classification

**Control Panel**

- 1280 controller (non-NTEP Certified only)
- Power disconnect with lock-out/tag-out
- E-stop
- VFD (variable frequency drive)
- Motor overloads

**Hardware**

- Square tube construction (SST or aluminum)
- 32 in height from top of belt with ±2.5 inch of adjustment
- Modular belting
- Drive on right side of belt (looking down belt flow)
- Control panel mounted on left side of belt (looking down belt flow)

## Options:

- Divert methods:
  - Pneumatic pusher
  - Air blast
  - Drop conveyor
  - Paddle
  - Secondary diverter in series or parallel
- One, three or five zone communication tower
- Audible alarm (non-washdown only)
- Draft shields
- Drop chutes
- Pull cord E-stops
- Portability package (non-NTEP Certified only)
- Conveyor guide rails (round or flat)
- Custom programming available
- Food-grade SST angle construction, NEMA Type 4X IP66 washdown systems
- Meets HACCP requirements
- UL 508
- Bar code scanner
- Metal detection
- 920i MotoWeigh indicator NTEP Certified Legal for Trade (up to 2,000 divisions /60 ppm)
- Filling machine feedback
- Pacing conveyor

## APPROVALS

*with 920i only*

*Optional*

## Specifications

**Construction, three types of systems:**
Stainless steel food-grade
Stainless steel non-food-grade
Aluminum non-food-grade

**Configurations:**
Checkweigher
Conveyor scale

**Speed:**
Up to 240 ft per minute

**Container Types:**
Boxes, bags, pouches, trays, tubs, cups, blister packs, display packs, clam shells

**Container Weights:**
Up to 200 lb
Resolution down to 0.01 lb/5 g, or better (dependent on scale capacity)

**Belts:**
Interlox® Habasit®

**Power Configuration:**
110 VAC single phase, 60 Hz
230/460 VAC 3 phase, 60 Hz

**Approvals:**
Optional NTEP: 60 ppm at 2,000 divisions (with 920i only)
Optional: UL 508

**Warranty:**
Two-year limited warranty (excludes powertrain and wear parts)

## Checkweigher Packages

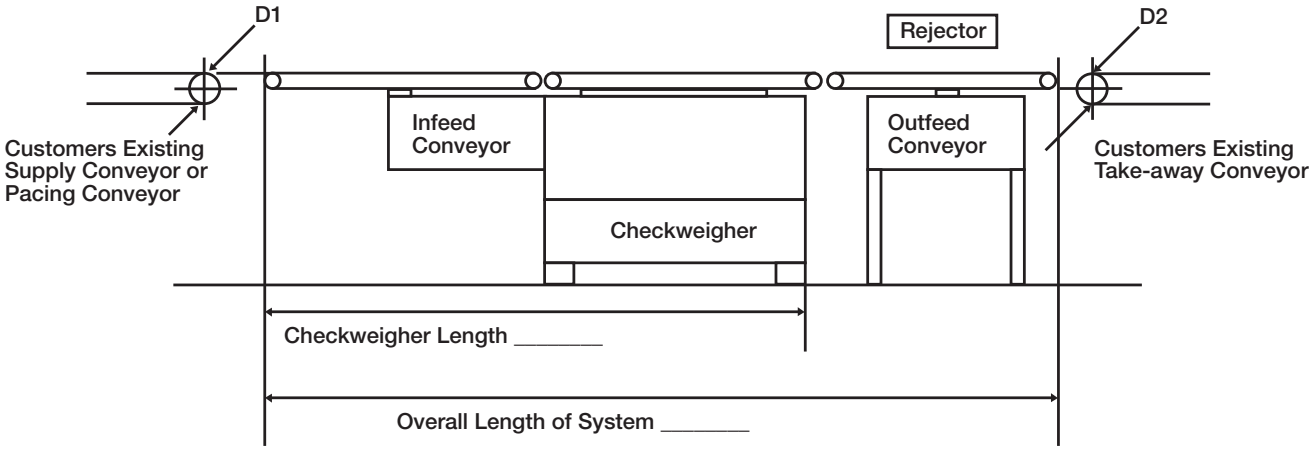
- NTEP Certified and non-NTEP Certified packages available in stainless steel and aluminum for food and non-food-grade applications.

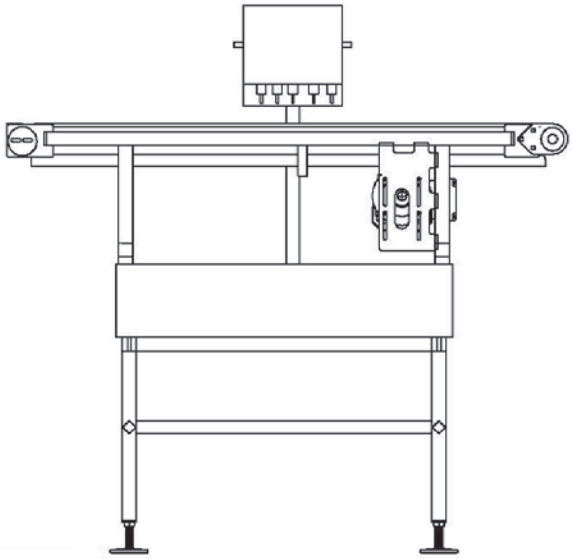
**Checkweigher Packages Include:**

- Common framework for mounting conveyor scale on same frame as infeed conveyor and indicator
- Basic control enclosure to interconnect wiring from photo eyes and divert solenoid and conveyor on/off/E-stop



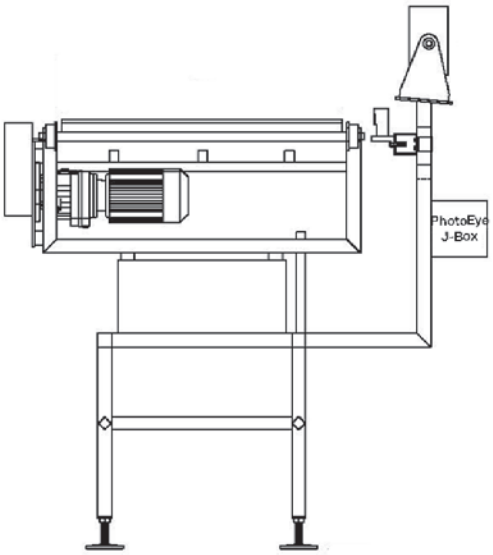
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Side View

*Conveyor Scale*




End View

*Conveyor Scale*

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**Field installation available at pre-determined rates.**

**Questionnaire available at www.ricelake.com/motoweigh**





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# MotoWeigh® Metal Detector



## Standard Features

**Software**

- Four levels of security
- Easy setup and product learning
- Easily change product boundaries/rejection
- One touch log reporting
- Eight fields of data recorded on large hard drive
- USB, Ethernet and RS485 communication ports
- English or Spanish

**Hardware**

- 7 in color touchscreen interface
- 304 stainless steel construction
- NEMA Type 4X, 304 stainless steel housing and enclosure
- IP66 rated
- Easily removable belt
- Adjustable foot pads or optional casters
- Single-point junction box
- Anti-static UHMW slider bed

## Options:

- Reject mechanism
  - Paddle
  - Linear
  - Drop
- Lock box
- IP69K
- Meets HACCP requirements
- Ferrous, non-ferrous, and 316 stainless steel test wands; individual wands and kits
- LED communication tower
- Audible alarms

## APPROVALS

## Specifications

**Construction:**
304 stainless steel

**Display:**
7 in color touchscreen

**Language Support:**
English and Spanish

**Inputs:**
Eight configurable (for photo eyes, remote emergency stop, etc.) that can be set to active high or active low

**Outputs:**
Nine programmable (for reject mechanism, system faults, system warnings, etc.)

**Speed:**
Up to 240 ft/minute (73 m/min) depending on configuration

**Operating Temperature:**
Integral control 14° F (-10° C) to 120° F (49° C)

**Storage Temperature:**
14° F (-10° C) to 175° F (80° C)

**Maximum Operating Altitude:**
6,561 ft (2,000 m)

**Power Requirements:**
100 to 240 VAC, 50 or 60 Hz



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## Part Number/Price

| Part # | Main Systems | Price |
|---|---|---|
| **Metal Detector Only** | | |
| 170657 | Metal Detector Head 8 in x 4 in | $13,280.00 |
| 170659 | Metal Detector Head 8 in x 6 in | $13,390.00 |
| 170660 | Metal Detector Head 8 in x 8 in | $13,490.00 |
| 170669 | Metal Detector Head 8 in x 10 in | $14,400.00 |
| 170670 | Metal Detector Head 8 in x 12 in | $14,670.00 |
| 170671 | Metal Detector Head 14 in x 6 in | $14,620.00 |
| 170672 | Metal Detector Head 14 in x 8 in | $15,100.00 |
| 170673 | Metal Detector Head 14 in x 10 in | $15,260.00 |
| 170674 | Metal Detector Head 14 in x 12 in | $15,420.00 |
| 170692 | Metal Detector Head 14 in x 14 in | $16,230.00 |
| 170675 | Metal Detector Head 20 in x 6 in | $16,710.00 |
| 170676 | Metal Detector Head 20 in x 8 in | $16,920.00 |
| 170677 | Metal Detector Head 20 in x 10 in | $17,140.00 |
| 170678 | Metal Detector Head 20 in x 12 in | $17,350.00 |
| 170679 | Metal Detector Head 20 in x 14 in | $17,400.00 |
| 170680 | Metal Detector Head 20 in x 16 in | $18,050.00 |
| 170681 | Metal Detector Head 20 in x 18 in | $18,420.00 |
| 170682 | Metal Detector Head 20 in x 20 in | $18,420.00 |
| 186289 | Metal Detector Head 26 in x 6 in | $17,400.00 |
| 170683 | Metal Detector Head 26 in x 8 in | $17,620.00 |
| 170684 | Metal Detector Head 26 in x 10 in | $18,150.00 |
| 170685 | Metal Detector Head 26 in x 12 in | $18,420.00 |
| 170686 | Metal Detector Head 26 in x 14 in | $18,690.00 |
| 170687 | Metal Detector Head 26 in x 16 in | $19,120.00 |
| 170688 | Metal Detector Head 26 in x 18 in | $19,810.00 |
| 170689 | Metal Detector Head 26 in x 20 in | $19,810.00 |
| **Metal Detector with Conveyor** | | |
| 170695 | Metal Detection System 8 in x 4 in Head, 6 in x 60 in Conveyor | $28,060.00 |
| 170704 | Metal Detection System 8 in x 6 in Head, 6 in x 60 in Conveyor | $28,060.00 |
| 170705 | Metal Detection System 8 in x 8 in Head, 6 in x 60 in Conveyor | $28,060.00 |
| 170706 | Metal Detection System 8 in x 10 in Head, 6 in x 60 in Conveyor | $28,060.00 |
| 170707 | Metal Detection System 8 in x 12 in Head, 6 in x 60 in Conveyor | $28,060.00 |
| 170708 | Metal Detection System 14 in x 6 in Head, 12 in x 60 in Conveyor | $25,070.00 |
| 170709 | Metal Detection System 14 in x 8 in Head, 12 in x 60 in Conveyor | $25,070.00 |
| 170710 | Metal Detection System 14 in x 10 in Head, 12 in x 60 in Conveyor | $25,070.00 |
| 170711 | Metal Detection System 14 in x 12 in Head, 12 in x 60 in Conveyor | $25,070.00 |
| 170712 | Metal Detection System 14 in x 14 in Head, 12 in x 60 in Conveyor | $25,070.00 |
| 170713 | Metal Detection System 20 in x 6 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 170714 | Metal Detection System 20 in x 8 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 170715 | Metal Detection System 20 in x 10 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 170716 | Metal Detection System 20 in x 12 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 170717 | Metal Detection System 20 in x 14 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 170718 | Metal Detection System 20 in x 16 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 170719 | Metal Detection System 20 in x 18 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 170720 | Metal Detection System 20 in x 20 in Head, 18 in x 72 in Conveyor | $27,600.00 |
| 186290 | Metal Detection System 26 in x 6 in Head, 24 in x 84 in Conveyor | $32,220.00 |
| 170721 | Metal Detection System 26 in x 8 in Head, 24 in x 84 in Conveyor | $32,220.00 |
| 170722 | Metal Detection System 26 in x 10 in Head, 24 in x 84 in Conveyor | $32,220.00 |
| 170723 | Metal Detection System 26 in x 12 in Head, 24 in x 84 in Conveyor | $32,220.00 |
| 170724 | Metal Detection System 26 in x 14 in Head, 24 in x 84 in Conveyor | $32,220.00 |
| 170725 | Metal Detection System 26 in x 16 in Head, 24 in x 84 in Conveyor | $32,220.00 |
| 170726 | Metal Detection System 26 in x 18 in Head, 24 in x 84 in Conveyor | $32,220.00 |
| 170727 | Metal Detection System 26 in x 20 in Head, 24 in x 84 in Conveyor | $32,220.00 |





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# MotoWeigh® Metal Detector

## Options/Accessories

| Part # | Main Systems | Price |
|---|---|---|
| **186279** | Information tower | $1,445.00 |
| **186280** | Remote electronics with up to 100 ft of cable | $1,180.00 |
| **186281** | Constant voltage transformer in NEMA Type 4X enclosure | $2,420.00 |
| **186282** | PLC module | $1,636.00 |
| **186283** | Critical spares kit | $5,390.00 |
| **186284** | Preventive kit | $590.00 |
| **Ferrous (Mild Steel) Test Wands** | | |
| **168370** | 1.0 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168383** | 1.2 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168384** | 1.5 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168385** | 1.8 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168386** | 2.0 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168387** | 2.2 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168388** | 2.5 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168389** | 2.8 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168390** | 3.0 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168391** | 3.1 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168392** | 3.25 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168393** | 3.5 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168394** | 4.0 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **168395** | 4.5 mm Ferrous (Mild Steel) Test Wand | $17.50 |
| **Non-Ferrous (Brass) Test Wands** | | |
| **168411** | 1.0 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168413** | 1.2 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168414** | 1.5 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168415** | 1.8 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168416** | 2.0 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168418** | 2.2 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168420** | 2.5 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168421** | 2.8 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168422** | 3.0 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168423** | 3.2 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168424** | 3.5 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168425** | 4.0 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168426** | 4.5 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **168427** | 5.0 mm Non-Ferrous (Brass) Test Wand | $17.50 |
| **316 Stainless Steel Test Wands** | | |
| **168428** | 1.5 mm 316 Stainless Steel Test Wand | $17.50 |
| **168429** | 1.8 mm 316 Stainless Steel Test Wand | $17.50 |
| **168430** | 2.0 mm 316 Stainless Steel Test Wand | $17.50 |
| **168431** | 2.2 mm 316 Stainless Steel Test Wand | $17.50 |
| **168432** | 2.5 mm 316 Stainless Steel Test Wand | $17.50 |
| **168433** | 2.8 mm 316 Stainless Steel Test Wand | $17.50 |
| **168434** | 3.0 mm 316 Stainless Steel Test Wand | $17.50 |
| **168435** | 3.1 mm 316 Stainless Steel Test Wand | $17.50 |
| **168436** | 3.4 mm 316 Stainless Steel Test Wand | $17.50 |
| **168437** | 4.0 mm 316 Stainless Steel Test Wand | $17.50 |
| **168438** | 4.5 mm 316 Stainless Steel Test Wand | $17.50 |
| **168439** | 5.0 mm 316 Stainless Steel Test Wand | $17.50 |
| **168440** | 5.5 mm 316 Stainless Steel Test Wand | $17.50 |
| **168441** | 6.0 mm 316 Stainless Steel Test Wand | $17.50 |
| **Test Wand Kits** | | |
| **168445** | Master Kit (Ferrous 1.0 - 4.5 mm, Non-Ferrous 1.0 - 5 mm, 316 Stainless Steel 1.5 - 6.0 mm) | $1,450.00 |
| **168442** | Ferrous Kit (1.0 - 4.5 mm) | $530.95 |
| **168443** | Non-Ferrous Kit (1.0 - 5.0 mm) | $530.95 |
| **168444** | 316 Stainless Steel Kit (1.5 - 6.0 mm) | $530.95 |



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# MotoWeigh® Cascade Checkweigher

Gravity Drop Checkweigher



## Specifications

**Construction:**
Mild steel
Electrostatic dissipative powder coat

**Maximum Container Size:**
7 in x 7 in x 1.5 in (L x W x H)

**Maximum Product Throughput:**
45 parts per minute*

**Capacity:**
1.5 lb (680.4 g)

**Accuracy:**
±0.00044 lb (0.2 g)

**Cylinder Stroke:**
1.75 in

**Variable based on product size, cylinder stroke, and scale accuracy*




## Standard Features

**Software**

- Single part drop detection (part outside of the bag)
- Statistical information
- Store up to 500 different products

**Hardware**

- Mild steel construction
- Electrostatic dissipative powder coating
- 920i® wall mount
- Air regulator
- Bimba® air cylinders
- MAC® solenoid valves

## Options:

- SST construction
- LED communication tower
- Audible alarm
- Draft shield

## Part Number/Price

| Part # | Main Systems | Price |
|---|---|---|
| **186614** | MotoWeigh Cascade Checkweigher and control panel | $9,310.00 |
| **Part #** | **Options / Accessories** | **Price** |
| **185808** | Red and green communication tower | $759.00 |
| **186577** | Red, green, and alarm communication tower | $850.00 |



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# Motoweigh® Integrator




## Specifications

**Construction:**
Stainless steel

**Control Panel Size:**
16 in x 16 in x 8 in

**Power Configuration:**
115-230 VAC single phase, 50/60 Hz

## Standard Features

**Software**

- Four levels of security
- Real-time statistical information
- Product report
- Statistical report
- Parameter report
- User report
- Store up to 1,000 different products
- Five zone classification
- Configurable reject output
- Conveyor control output

**Control Panel**

- 16 in x 16 in x 8 in stainless steel enclosure
- Panel mount 920i®
- 24 VDC power supply
- 16 Opto 22 relays
- Terminal blocks for easy wiring

## Options:

- One, three or five zone communication tower
- Audible alarm (non-washdown only)

## Part Number/Price

| Part # | Main Systems | Price |
|---|---|---|
| **185800** | 920i panel mount with MotoWeigh software, without cord grips | $6,377.00 |
| **185801** | 920i panel mount with MotoWeigh software, with cord grips | $6,607.00 |
| **Part #** | **Options / Accessories** | **Price** |
| **185803** | Alarm communication tower | $413.00 |
| **185804** | Red communication tower | $456.00 |
| **185805** | Three zone communication tower | $1,064.00 |
| **185806** | Three zone and alarm communication tower | $1,323.00 |
| **185807** | Five zone communication tower | $1,461.00 |



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*AD-4961 Series Checkweigher*



*AD-4971 Metal Detector*

| | AD-4961-600-1224 Specifications | AD-4961-2KD-2035 Specifications | AD-4961-6K-3050 Specifications | AD-4971 Metal Detector Specifications |
|---|---|---|---|---|
| **Capacity** | 600 g | 500 g/2,000 g | 6,000 g | N/A |
| **Resolution** | 0.01 g | 0.01 g/0.1 g | 0.1 g | N/A |
| **Accuracy** | 0.08 g | 0.08 g/0.18 g | 1.0 g | N/A |
| **Construction** | IP65 stainless steel construction with ABS resin display | IP65 stainless steel construction with ABS resin display | IP65 stainless steel construction with ABS resin display and stainless steel control box and base | IP65 stainless steel construction with ABS resin display |
| **Aperture Sizes** | N/A | N/A | N/A | From 13.7 in x 3.9 in to 17.7 in x 9.8 in (350 mm x 100 mm to 450 mm x 250 mm) |
| **Display** | 7 in color touchscreen | 7 in color touchscreen | 7 in color touchscreen | 7 in color touchscreen |
| **Configurations** | Checkweigher or conveyor scale | Checkweigher or conveyor scale | Checkweigher or conveyor scale | N/A |
| **Speed** | Up to 240 ft per minute (120 m per min) | Up to 240 ft per minute (120 m per min) | Up to 240 ft per minute (80 m per min) | Up to 196 ft per minute (60 m per min) |
| **Max Throughput** | 150 pcs per min | 150 pcs per min | 100 pcs per min | N/A |
| **Belts** | Food grade urethane belt | Food grade urethane belt | Food grade urethane belt | Food grade urethane belt |
| **Recorded Items** | 1,000 items (ten groups x 100 items) | 1,000 items (ten groups x 100 items) | 1,000 items (ten groups x 100 items) | 1,000 items |
| **Communication** | Modbus TCP, Modbus RTU, RS-232, Ethernet TCP/IP (PostScript Printer), USB (for PostScript Printer, USB memory, data storage, image import use) | Modbus TCP, Modbus RTU, RS-232, RS-485, Ethernet TCP/IP (PostScript Printer), USB (for PostScript Printer, USB memory, data storage, image import use) | Modbus TCP, Modbus RTU, RS-232, RS-485, Ethernet TCP/IP (PostScript Printer), USB (for PostScript Printer, USB memory, data storage, image import use) | Modbus TCP, Modbus RTU, Ethernet TCP/IP (PostScript Printer), USB (for PostScript Printer, USB memory, data storage, image import use) |
| **Input/Output** | External input for four non-voltage contact points<br>External output for eight relay points | External input for four non-voltage contact points<br>External output for eight relay points | External input for four non-voltage contact points<br>External output for eight relay points | External input for four non-voltage contact points<br>External output for eight relay points |
| **Power Configuration** | 100 VAC-240 VAC (+10%/-15%) single phase, 50/60 Hz; 180 VA | 100 VAC-240 VAC (+10%/-15%) single phase, 50/60 Hz; 180 VA | 100 VAC-240 VAC (+10%/-15%) single phase, 50/60 Hz; 180 VA | 100 VAC-240 VAC (+10%/-15%) single phase, 50/60 Hz; 180 VA |
| **Operating Temperature** | 23°F to 104°F (-5°C to 40°C | 23°F to 104°F (-5°C to 40°C) | 23°F to 104°F (-5°C to 40°C) | 32°F to 104°F (0°C to 40°C) |
| **External Dimensions** | (L x W x H) 27.5 in x 25.9 in x 27.9 in-33.8 in (700 mm x 660 mm x 710 mm-860 mm) | (L x W x H) 27.5 in x 25.9 in x 27.9 in-33.8 in (700 mm x 660 mm x 710 mm-860 mm) | (L x W x H) 39.5 in x 28.9 in x 28.3 in-34.2 in (1,005 mm x 736 mm x 720 mm-870 mm) | Model dependent |





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# A&D Inspection AD-4961 Series

In-Motion Conveyor Scale, Checkweigher and Metal Detector

## Part Number/Price

| AD-4961-600-1224 600g Checkweigher | | |
|---|---|---|
| **Part #** | **Checkweigher** | **Price** |
| 186317 | EZICheck checkweigher 600 g | $14,650.00 |
| **Part #** | **Rejector** | **Price** |
| 186318 | EZICheck 600 g air jet reject with two nozzles | $4,965.00 |
| **Part #** | **Options / Accessories** | **Price** |
| 186319 | EZICheck 600 g breeze break | $650.00 |
| 176622 | CW extension leg kit - set of four (up to 40 in) | $450.00 |
| 186320 | Maintenance kit 600 g | $2,450.00 |

*Assembly is required*

| AD-4961-2K-2035 2 kg Checkweigher | | |
|---|---|---|
| **Part #** | **Checkweigher** | **Price** |
| 176605 | EZICheck checkweigher 2 kg | $14,825.00 |
| **Part #** | **Rejector** | **Price** |
| 176607 | EZICheck 2 kg dual channel reject flipper | $7,050.00 |
| 176610 | Air jet rejector (two nozzles) | $5,650.00 |
| 176608 | EZICheck 2 kg single channel drop rejector | $3,700.00 |
| **Part #** | **Options / Accessories** | **Price** |
| 176614 | EZICheck-01 display stand | $310.00 |
| 176612 | Tower light 3 zone, must buy AD-4691-01 | $650.00 |
| 176615 | EZICheck-11 upper breeze break | $1,550.00 |
| 176617 | EZICheck-12 lower breeze break | $350.00 |
| 176618 | EZICheck-13 transfer plate | $155.00 |
| 176619 | EZICheck-14 product guides | $700.00 |
| 176622 | CW extension leg kit - set of four (up to 40 in) | $450.00 |
| 179427 | Maintenance kit 2 kg | $2,625.00 |
| 192920 | Conveyor connection kit | $45.00 |

*Assembly is required*

| AD-4961-6K-3050 6 kg Checkweigher | | |
|---|---|---|
| **Part #** | **Checkweigher** | **Price** |
| 176606 | EZICheck checkweigher 6 kg | $19,775.00 |
| **Part #** | **Rejector** | **Price** |
| 176609 | EZICheck 6 kg push ram rejector | $9,255.00 |
| **Part #** | **Options / Accessories** | **Price** |
| 176614 | EZICheck-01 display stand | $310.00 |
| 176612 | Tower light 3 zone, must buy AD-4691-01 | $650.00 |
| 176622 | CW extension leg kit - set of four (up to 40 in) | $450.00 |
| 186322 | Maintenance kit 6 kg | $2,850.00 |

*Assembly is required*

| AD-4971 Metal Detector | | |
|---|---|---|
| **Part #** | **Main Systems** | **Price** |
| 186325 | AD-4971-3510 Metal Detector – 100 mm aperture | $15,450.00 |
| 186326 | AD-4971-3517 Metal Detector – 170 mm aperture | $15,650.00 |
| 186327 | AD-4971-3525 Metal Detector – 250 mm aperture | $16,000.00 |
| 186328 | AD-4971-4517 Metal Detector – 170 mm aperture | $19,000.00 |
| 186329 | AD-4971-4525 Metal Detector – 250 mm aperture | $19,500.00 |
| 186330 | EZICheck Metal Detector tower light | $775.00 |
| 176622 | CW extension leg kit - set of four (up to 40 in) | $450.00 |
| 186331 | Maintenance kit for AD-4971-3510, AD-4971-3517, AD-4971-3525 metal detectors | $2,150.00 |
| 186332 | Maintenance kit for AD-4971-4517, AD-4971-4525 metal detectors | $2,350.00 |



*Brezze Break*



*Metal Detector*



*Tower Light*



*Maintenance Kit*



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# MotoWeigh® Roller Top Scale

Manual Roller Top Checkweigher

## Specifications

**Dimensions:**
36 54 30 in (W x L x H) with +/- 2.5 in height adjustment

**Capacity:**
100 lb x 0.05 lb

**880/880 Plus Performace Series Digital Weight Indicator Approvals:**
NTEP CC 13-080 Class III/IIIL, 10,000d
Measurement Canada AM-5931C
Class III/IIIHD, 10,000d
OIML R76/1992-GB1-04.02 Class III, 10,000d
EU Test Certificate TC8463
UL/cUL Listed (universal)
UL/cUL Recognized (panel mount)
CE Marked




## Standard Features

- Integrated overload protect ion
- 4 load cell system
- Mild steel powder-coated frame
- Non- powder-coated rollers
- Consult factory for custom sizes/capacities

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **201732** | MotoWeigh roller top scale | Consult |





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# Junction Boxes / Simulators

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# JB4SS

TuffSeal® Signal Trim Junction Box



## Approvals

FM APPROVED

TuffSeal

## Specifications

**Cable Fittings:**

**PN 88956:**
(4) PG7 0.118-0.255 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent™ breather vent

**PN 107700:**
(4) PG9 0.138-0.315 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent™ breather vent

**Enclosure:**
Stainless steel NEMA Type 4X

**Connectors:**
Spring clamp screwless, 12-28 AWG

**Trimming:**
Individual cell, signal trim

**Potentiometers:**
100,000 ohm, 25 turn cermet

**Circuit Board:**
3.8 in x 2.3 in (96.5 mm x 58.4 mm), with conformal coating

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year limited warranty

## Standard Features

- Stainless steel, NEMA Type 4X enclosure
- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal coated circuit board
- Number of cells: Two, three or four single cells
- Expansion port

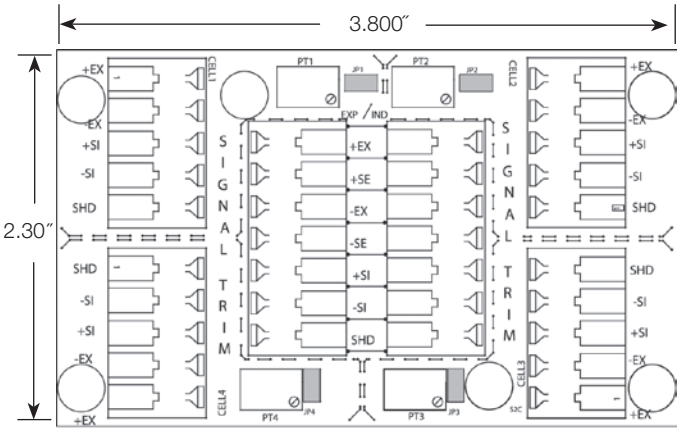
## Applications

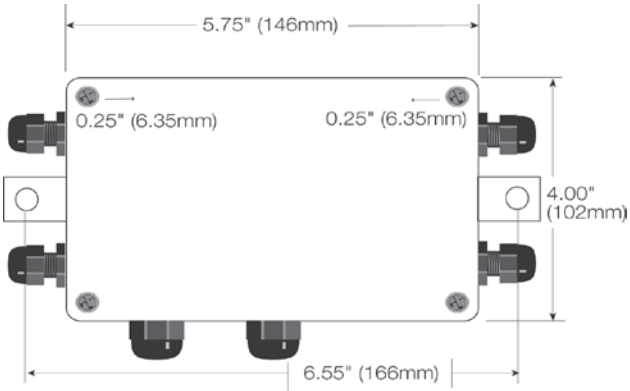
- Floor, tank, hopper scales

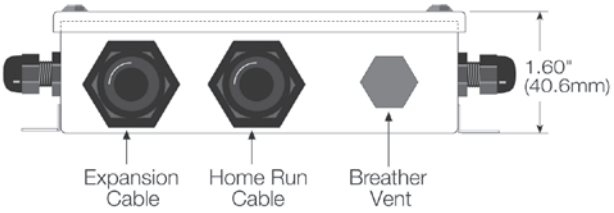
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **88956** | JB4SS signal trim junction box with PG7 cord grips for load cells | $250.00 |
| **107700** | JB4SS signal trim junction box with PG9 cord grips for load cells | $265.00 |
| **88958** | Board only | $150.00 |
| **182990** | Board only with standoffs | $150.00 |
| **165271** | Enclosure only (Includes cord grip and filter) | $130.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*






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## Specifications

**Cable Fittings:**
(4) PG7 0.118-0.255 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent breather vent

**Enclosure:**
Stainless steel NEMA Type 4X

**Connectors:**
Spring clamp screwless, 12-28 AWG

**Trimming:**
Individual cell, excitation trim

**Potentiometers:**
100 ohm, 25 turn cermet

**Circuit Board:**
3.8 in x 2.3 in (96.5 mm x 58.4 mm), with conformal coating

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year limited warranty

## Approvals

FM APPROVED

TuffSeal®




## Standard Features

- Stainless steel, NEMA Type 4X enclosure
- Jumpers to enable trimming
- PreVent™ breather vent
- Conformal coated circuit board
- Number of cells: Two, three or four single cells
- Expansion port

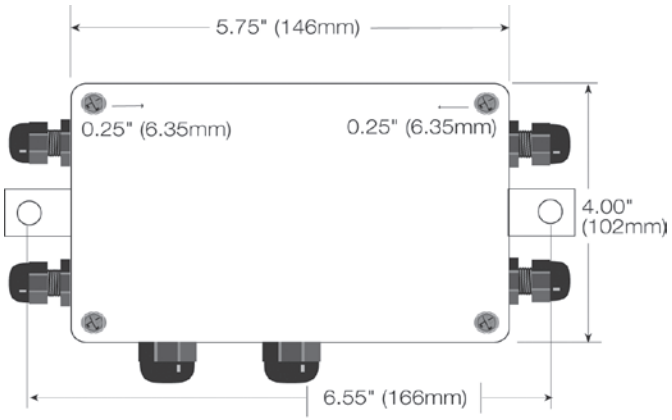
## Applications

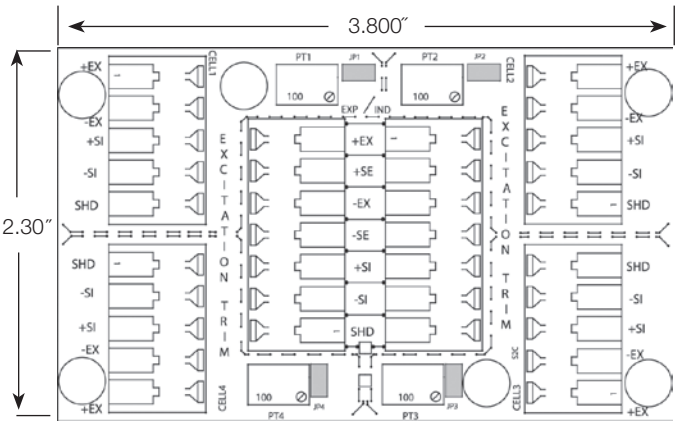
- Floor, tank, hopper scales

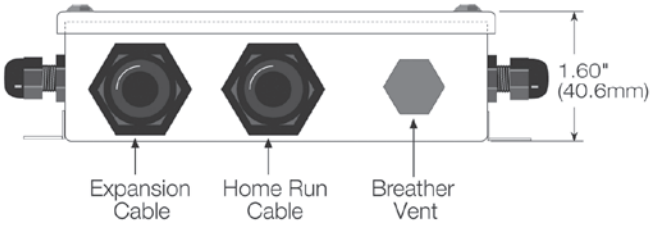
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **91779** | JB4ES excitation trim junction box | $250.00 |
| **89446** | Board only | $150.00 |
| **165271** | Enclosure only (Includes cord grip and filter) | $130.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*








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# JB4SP and JB4SPT

TuffSeal® Signal Trim Junction Box



## Approvals

FM APPROVED
*PN 92762*
*Not FM approved*

TuffSeal®

## Specifications

**Cable Fittings:**
(4) PG7 0.118-0.255 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent breather vent

**Enclosure:**
Molded FRP NEMA Type 4X enclosure with overlapping solid cover, stainless steel screws

**Connectors:**
Spring clamp screwless, 12-28 AWG

**Trimming:**
Individual cell, signal trim

**Potentiometers:**
100,000 ohm, 25 turn cermet

**Circuit Board:**
3.8 in x 2.3 in (96.5 mm x 58.4 mm), with conformal coating

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year limited warranty

## Standard Features

- Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure with stainless steel cover screws
- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal coated circuit board
- Number of cells: Two, three or four single cells
- Expansion port

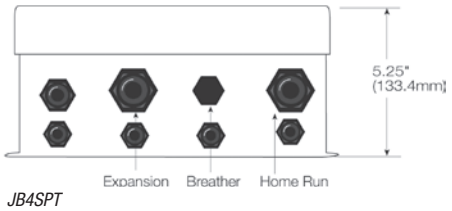
## Applications

- Tank and hopper scales

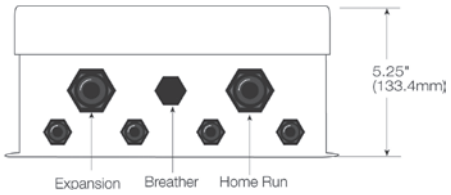
## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **91780** | JB4SP signal trim four-channel with expansion | $255.00 |
| **92762** | JB4SPT signal trim with transient protection (not FM approved) | $445.00 |
| **88958** | Board only | $150.00 |
| **89894** | Transient board | $215.00 |
| **165272** | Enclosure only (does not include cord grip and filter) | $125.00 |

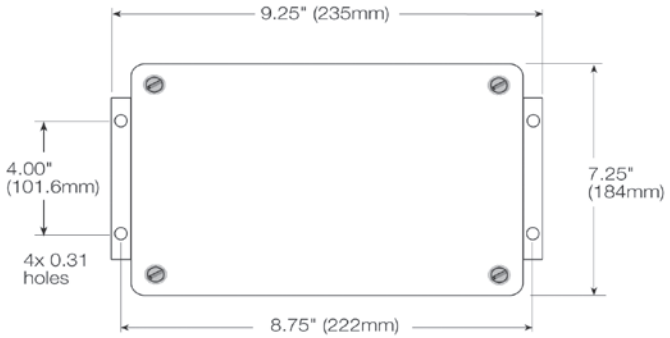
*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*

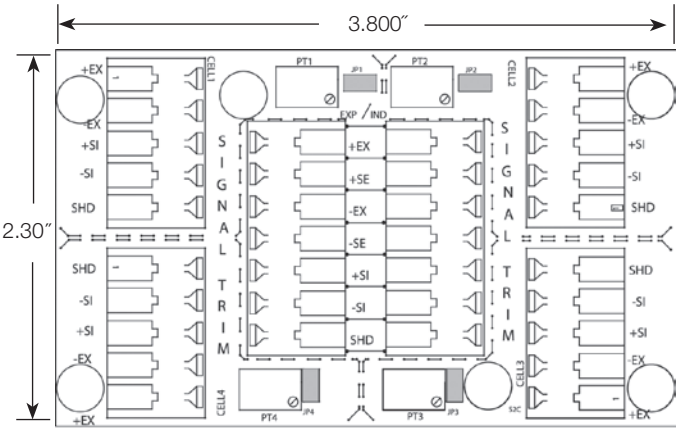



*JB4SPT*




*JB4SP*






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## Specifications

**Cable Fittings:**
(4) PG7 0.118-0.255 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent breather vent

**Enclosure:**
Molded FRP (NEMA Type 4X) enclosure with overlapping solid cover, stainless steel screws

**Connectors:**
Spring clamp screwless, 12-28 AWG

**Trimming:**
Individual cell, excitation trim

**Potentiometers:**
100 ohm, 25 turn cermet

**Circuit Board:**
3.8 in x 2.3 in (96.5 mm x 58.4 mm), with conformal coating

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year limited warranty

## Approvals

FM APPROVED
*PN 92763*
*Not FM approved*

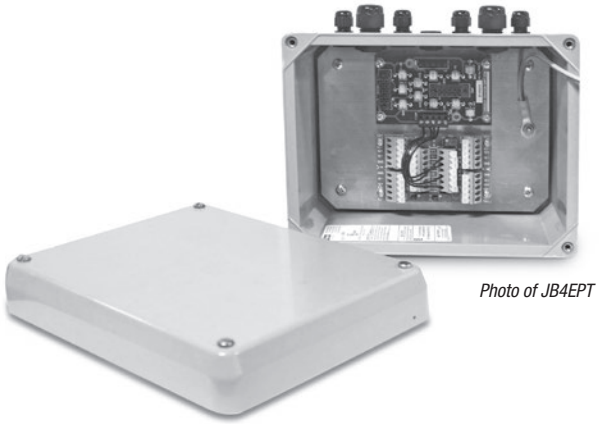


*Photo of JB4EPT*

## Standard Features

- Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure with stainless steel cover screws
- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal coated circuit board
- Number of cells: Two, three or four single cells
- Expansion port

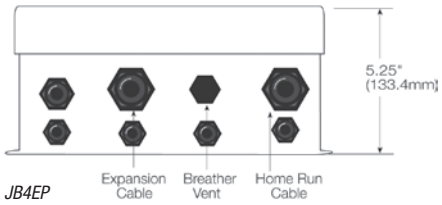
## Applications

- Tank and hopper scales

## Part Number/Price

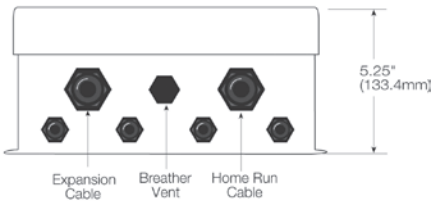
| Part# | Description | Price |
|---|---|---|
| **91781** | JB4EP excitation trim junction box | $255.00 |
| **92763** | JB4EPT excitation trim junction box with transient protection (not FM approved) | $445.00 |
| **89446** | Board only | $150.00 |
| **89894** | Transient board | $215.00 |
| **165272** | Enclosure only (does not include cord grip and filter) | $125.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*

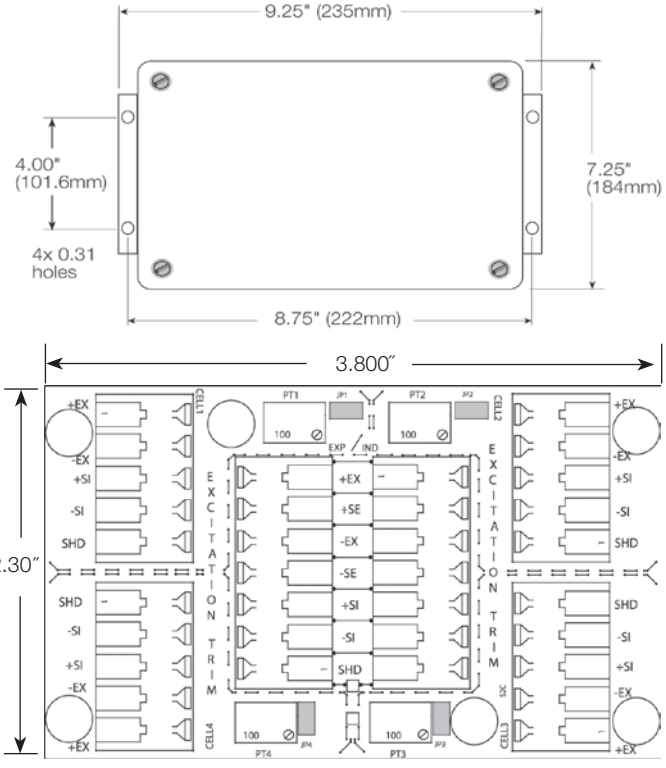



*JB4EP*

Load Cell Cord Grips on Bottom




*JB4EPT*





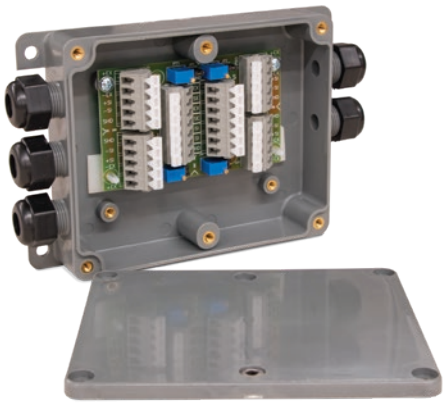

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# EL204

Signal Trim Junction Box



## Standard Features

- ABS enclosure with molded-in cable fittings
- Premium screw terminals
- Six-screw attachment to lid, die cut gasket for superior environment protection
- Number of cells: Two, three or four single cells

## Applications

- Floor, hopper, tank or livestock applications

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **73428** | EL204 junction box | $185.00 |
| **88958** | Board only | $150.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*

## Specifications

**Cable Fittings:**
Five water tight nylon compression fittings, 0.210 in x 0.280 in (5.3 mm x 7.1 mm)

**Connectors:**
Spring clamp screwless, 12-28 AWG

**Trimming:**
Individual cell trim, signal trim

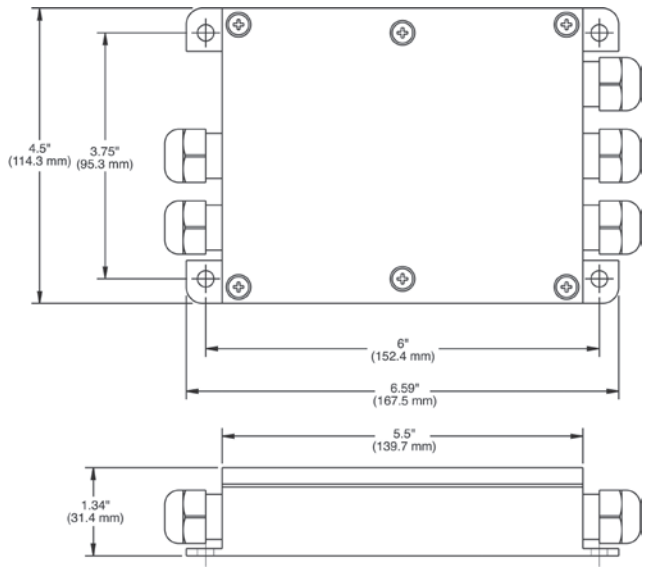
**Potentiometers:**
100,000 ohm, 25 turn cermet

**Enclosure:**
ABS with molded through-fittings, sealed six-screw lid

**Circuit Board:**
3.8 in x 2.3 in (96.5 mm x 58.4 mm); with conformal coating

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year limited warranty






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## Specifications

**Cable Fittings:**
(5) nylon 0.187 in-0.312 in (4.7 mm-7.9 mm) cable strain reliefs

**Connectors:**
Electrovert 0.197 in (5.0 mm) miniature two piece connectors. Maximum wire size #14 AWG; connectors are removable for easy wiring.

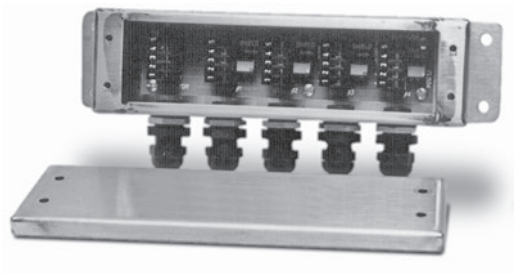
**Trimming:**
Individual cell trim, signal trim

**Potentiometers:**
100,000 ohm, 25-turn cermet

**Enclosure:**
Stainless steel NEMA Type 4X, 40 PSI washdown

**Circuit Board:**
6.5 in x 1.5 in (165.1 mm x 38.1 mm) with anti-fungal coating

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)



## Standard Features

- Stainless steel, NEMA Type 4X enclosure
- Strain relief cable fittings
- Removable connectors for easy wiring
- Number of cells: Two or four single cells (even number of cells only)
- Any unused channels require modification

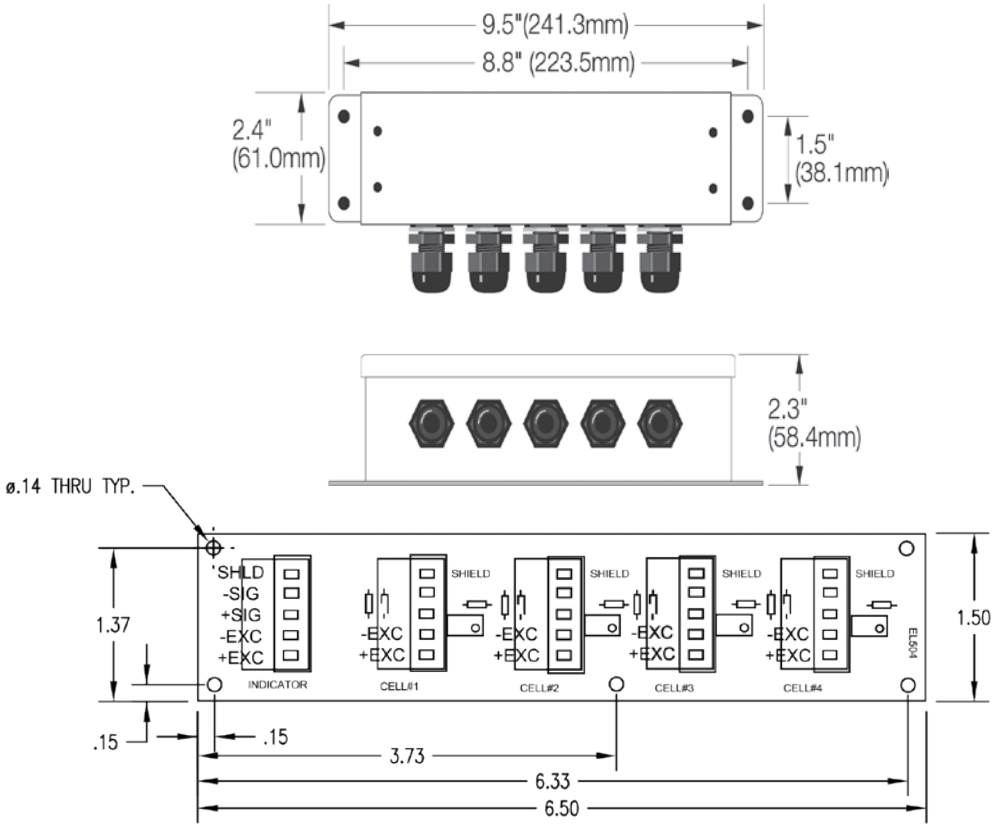
## Applications

- Truck and floor scales
- Limited space installations

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **21165** | EL504 signal trim junction box | $350.00 |
| **21296** | Board only | $255.00 |
| **165274** | Enclosure only | $150.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*






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# JB8SP

TuffSeal® Signal Trim Junction Box



## Approvals

FM APPROVED

TuffSeal

## Specifications

**Cable Fittings:**
(9) 3/8 in NPT 0.157 in-0.314 in
(2) 1/2 in NPT 0.272 in-0.472 in
(1) PreVent breather unit

**Enclosure:**
Molded FRP NEMA Type 4X enclosure with overlapping solid cover, stainless steel screws

**Connectors:**
Pluggable screw type, 12-28 AWG

**Trimming:**
Individual cell trim, range

**Potentiometers:**
100,000 ohm, 25 turn cermet

**Circuit Board:**
5.7 in x 7.2 in with conformal coating

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year warranty

## Standard Features

- Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure
- PreVent™ breather vent
- Conformal coated circuit board
- Removable load cell connectors
- Section and individual cell trim capability
- Number of cells: Two, four, six or eight single load cells (even number of cells only)
- Expansion port

## Applications

- Truck, livestock and railroad scales

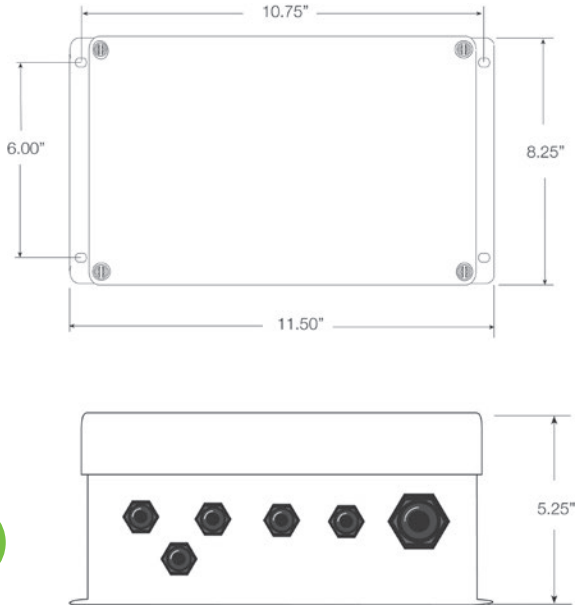
## Part Number/Price

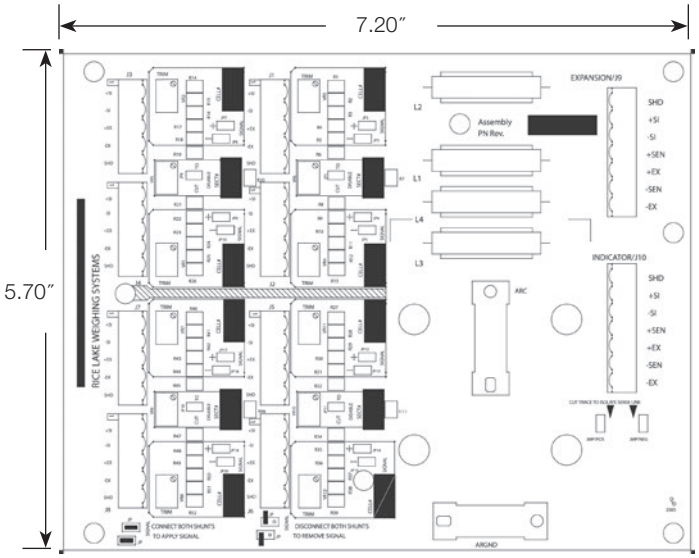
| Part# | Description | Price |
|---|---|---|
| **91782** | JB8SP signal trim eight-channel with expansion | $425.00 |
| **173807** | JB8SP signal trim eight-channel with expansion, FM approved | $425.00 |
| **89889** | Board only | $365.00 |
| **172415** | Board only, FM approved | $365.00 |
| **165273** | Enclosure only (does not include cord grip and filter) | $135.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*

## Options/Accessories

| Part# | Description | Price |
|---|---|---|
| **92734** | Coupling, 1/2 in NPT cord grip to 3/4 in NPT conduit fitting | $25.00 |
| **92735** | Coupling, 3/8 in NPT cord grip to 3/4 in NPT conduit fitting | $25.00 |






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## Specifications

**Cable Fittings:**
(9) 3/8 in NPT 0.157 in-0.314 in
(2) 1/2 in NPT 0.272 in-0.472 in
(1) PreVent breather unit

**Enclosure:**
Molded FRP, NEMA Type 4X enclosure with overlapping solid cover, stainless steel screws

**Connectors:**
Pluggable screw type, 12-28 AWG

**Trimming:**
Individual cell trim

**Potentiometers:**
100,000 ohm, 25 turn cermet

**Circuit Board:**
5.7 in x 7.2 in with conformal coating

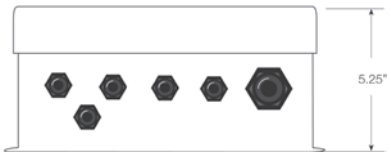
**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year warranty



## Standard Features

- Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure
- PreVent™ breather vent
- Conformal coated circuit board
- Removable load cell connectors
- Section and individual cell trim capability
- Field replaceable transient protection
- (1) coupling, 0.5 in NPT cord grip to 0.75 in NPT conduit fitting for homerun cable
- Number of cells: Two, four, six or eight single load cells (even number of cells only)
- Expansion board







## Applications

- Truck, livestock and railroad scales

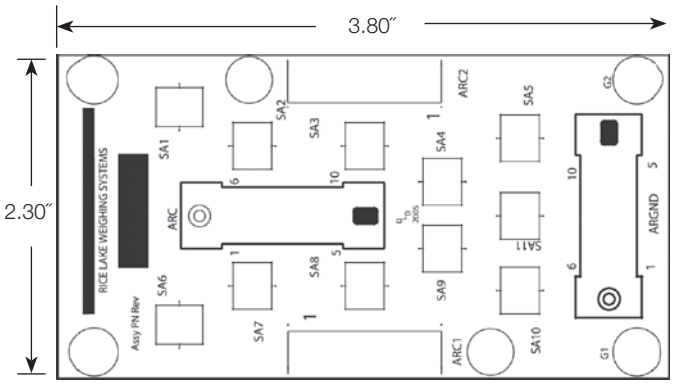
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **91783** | JB8SPT signal trim junction box with transient protection | $625.00 |
| **89889** | Board only | $365.00 |
| **89894** | Transient board | $215.00 |
| **165273** | Enclosure only (does not include cord grip and filter) | $135.00 |

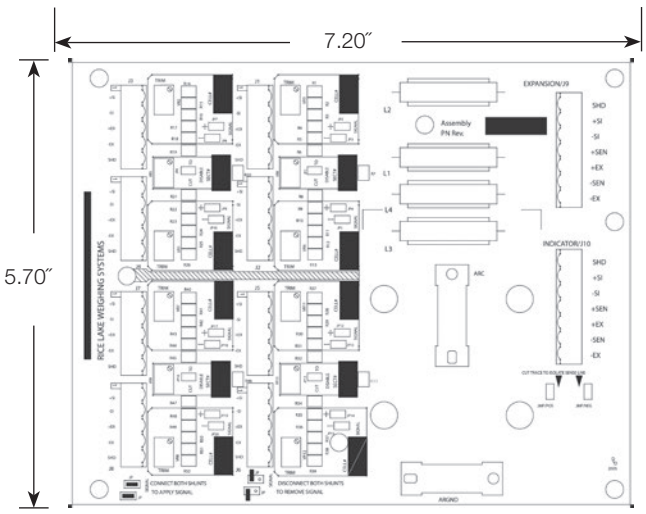
*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **92734** | Coupling, 1/2 in NPT cord grip to 3/4 in NPT conduit fitting | $25.00 |
| **92735** | Coupling, 3/8 in NPT cord grip to 3/4 in NPT conduit fitting | $25.00 |




*Transient Board*



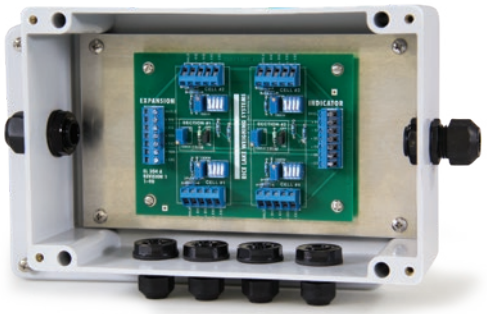

*Load Cell Board*



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# EL304A

Signal Trim Junction Box



## Standard Features

- Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure
- Strain relief cable fittings
- Individual cell signal disconnect switches
- Number of cells: Two or four single cells (even number of cells only)
- Expansion port

## Applications

- Livestock scales
- Tank and vessel weighing
- Corner and/or section trim applications

## Specifications

**Cable Fittings:**
4 nylon cable strain reliefs 0.079 in-0.236 in (2.0 mm-6.0 mm)
2 nylon cable strain reliefs 0.236 in-0.354 in (6.0 mm-9.0 mm)

**Connectors:**
Electrovert 0.197 in (5.0 mm) miniature screw terminals. Maximum wire size #14 AWG

**Trimming:**
Individual cell and section, signal trim

**Potentiometers:**
100,000 ohm, 25-turn cermet

**Enclosure:**
FRP NEMA Type 4X, 40 PSI washdown

**Circuit Board:**
5.5 in x 4 in (139.7 mm x 101.6 mm) with anti-fungal coating

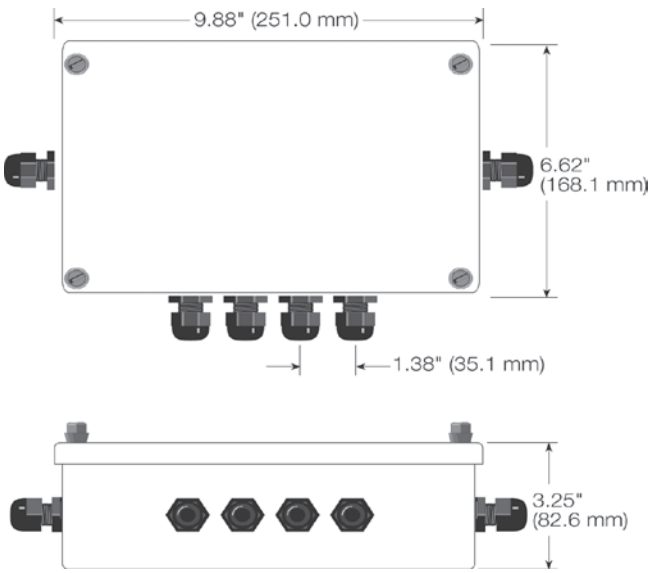
**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

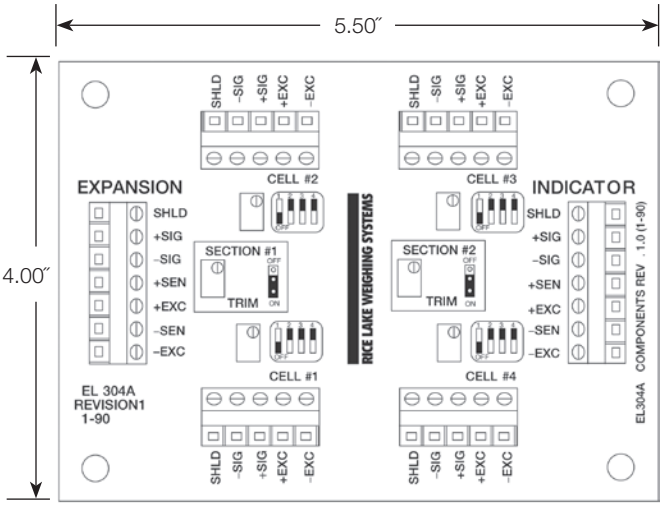
**Warranty:**
One-year limited warranty

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **21169** | EL304A signal trim four-channel junction box | $295.00 |
| **21301** | Board only | $215.00 |
| **165275** | Enclosure only (includes cord grip) | $145.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*






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## Specifications

**Mounting Centers:**
3.75 in x 2.31 in (95.2 mm x 58.7 mm)

**Cable Fittings:**
Nylon waterproof strain-relief type

**Cable Diameter:**
0.079 in-0.314 in (2.0 mm-8.0 mm)

**Potentiometers:**
100,000 ohm, 25 turns cermet

**Trimming:**
Individual cell and section signal, excitation trimming

**Terminal Block:**
Rated 300 V/15 A; seven-position screw terminal can each accommodate up to # 16 AWG

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year limited warranty



## Standard Features

- Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure
- Transient protection
- Signal or excitation trim
- Front panel mounting
- Strain relief cable fittings
- Number of cells: 1 through 10
- Trims odd numbers of cells without modification

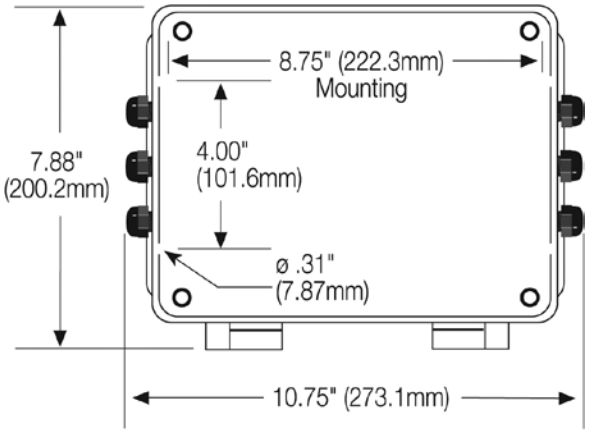
## Applications

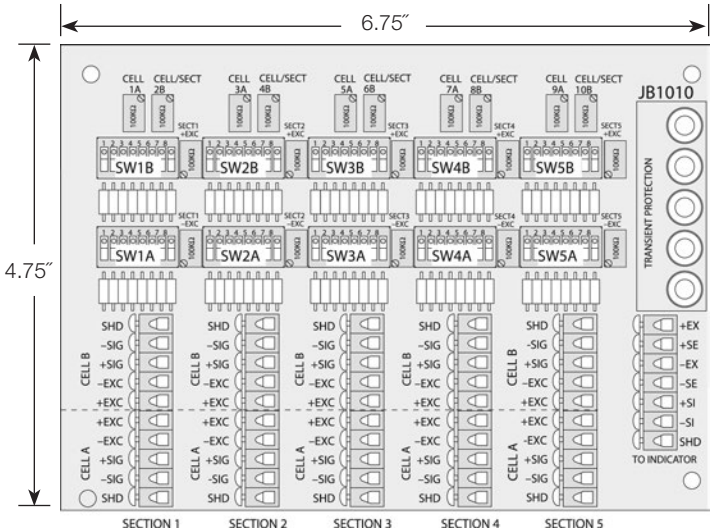
- Tank, truck, railroad, hopper and floor scales
- Universal field replacement of existing boxes
- Expansion of existing scales

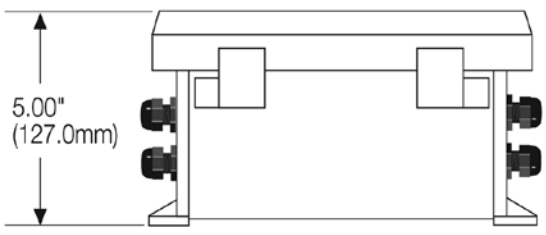
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **36231** | JB1010 signal/excitation trim junction box | $650.00 |
| **36351** | Board only | $455.00 |
| **165276** | Enclosure only (includes cord grip) | $250.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*



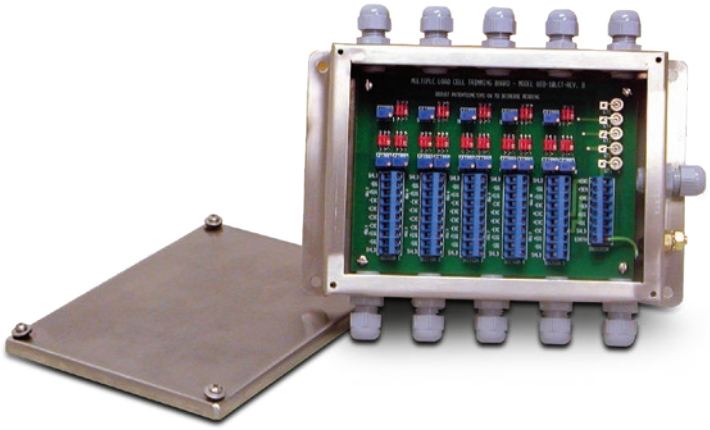





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# JB1010ST

Signal Trim Junction Box with Transient Protection



## Standard Features

- Stainless steel, NEMA Type 4X enclosure
- Transient protection using gas discharge tubes
- Section and individual cell trim capability
- Compact enclosure only 1.75 in deep
- Strain relief cable fitting
- Number of cells: Two, four, six, eight or 10 single load cells
- Any unused channels require modification
- Legal for Trade sealing screws, wire and seal included

## Applications

- Tank, truck and railroad scales
- Summing 10 load cells with individual and section trimming capability

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **68813** | JB 1010ST signal trim junction box | $575.00 |
| **68811** | Board only | $435.00 |
| **165277** | Enclosure only (includes cord grips) | $460.00 |

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*

## Specifications

**Cable Fittings:**
11 nylon cable strain relief for cable dimension range: 0.079 in to 0.314 in

**Connectors:**
Electrovert 0.197 miniature screw terminals, Five positions

**Maximum wire size:**
#14 AWG
External enclosure ground stud

**Trimming:**
Individual cell and section signal trim

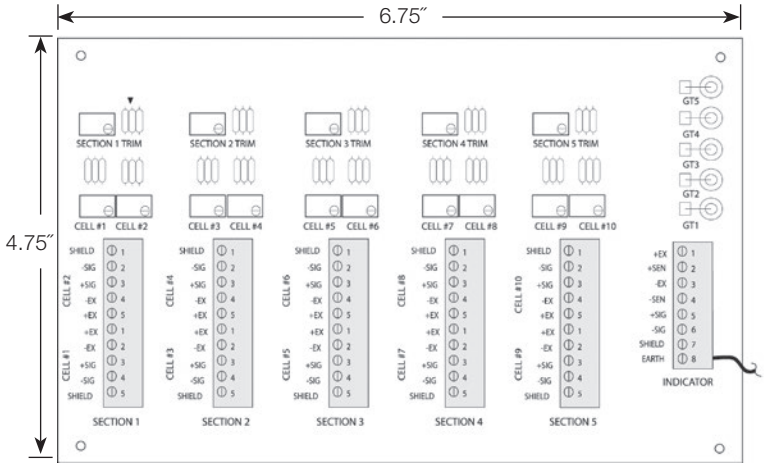
**Potentiometers:**
100,000 ohm, 25 turns cermet, individual trim
100 ohm potentiometers for section trimming

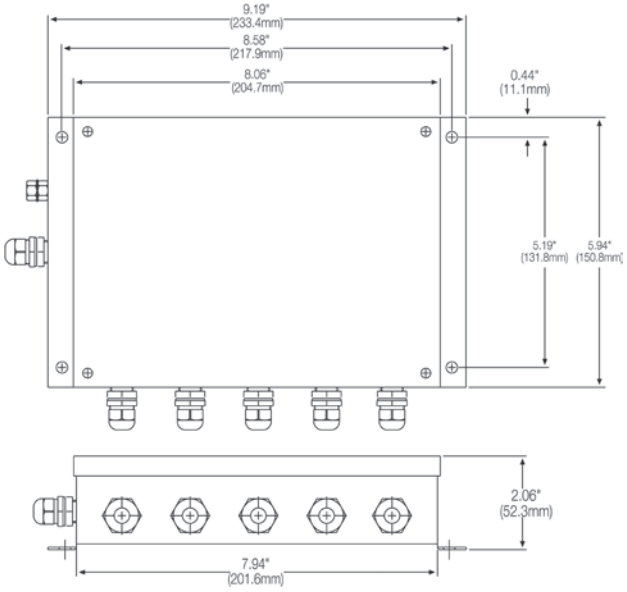
**Enclosure:**
Stainless steel

**Circuit Board:**
6.5 in x 4.5 in (165.1 mm x 114.3 mm)

**Operating Temperature:**
0°F to 122°F (-18°C to 50°C)

**Warranty:**
One-year limited warranty






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| Model | Complete J-Box Replacement | Replacement Board Only | Replacement Cord Grips | Replacement Pressure & Condensation Vent | Desiccant Packs |
|---|---|---|---|---|---|
| JB4SS | **88956** $250.00 | **88958** $150.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | **88733** PreVent™ breather (vent) $22.00<br>**88734** (vent nut) $1.05 | **92240** $1.10 |
| JB4ES | **91779** $250.00 | **89446** $150.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | **88733** PreVent™ breather (vent) $22.00<br>**88734** (vent nut) $1.05 | **92240** $1.10 |
| JB4SP<br>JB4SPT | **91780** $255.00<br>**92762** $445.00 | **88958** (load cell) $150.00 &<br>**89894** (transient protection) $215.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | **88733** PreVent™ breather (vent) $22.00<br>**88734** (vent nut) $1.05 | **16039** $2.10 |
| JB4EP<br>JB4EPT | **91781** $255.00<br>**92763** $445.00 | **89446** (load cell) $150.00 &<br>**89894** (transient protection) $215.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | **88733** PreVent™ breather (vent) $22.00<br>**88734** (vent nut) $1.05 | **16039** $2.10 |
| EL204 | **73428** $185.00 | **88958** $150.00 | N/A | N/A | N/A |
| JB8SP | **91782** $425.00<br>**173807** FM approved $425.00 | **89889** $365.00<br>**172415** FM approved $365.00 | **15655** (cord grip) $2.10 &<br>**15656** (nut) $1.05 =3/8" NPT<br>**15628** (cord grip) $4.00 &<br>**15630** (nut) $3.00 =1/2" NPT | **88733** PreVent™ breather (vent) $22.00<br>**88734** (vent nut) $1.05 | **16039** $2.10 |
| JB8SPT | **91783** $625.00 | **89889** (load cell) $365.00 &<br>**89894** (transient protection) $215.00 | **15655** (cord grip) $2.10 &<br>**15656** (nut) $1.05 =3/8" NPT<br>**15628** (cord grip) $4.00 &<br>**15630** (nut) $3.00 =1/2" NPT | **88733** PreVent™ breather (vent) $22.00<br>**88734** (vent nut) $1.05 | **16039** $2.10 |
| EL304A | **21169** $295.00 | **21301** $215.00 | N/A | N/A | N/A |
| JB1010 | **36231** $650.00 | **36351** $455.00 | N/A | N/A | N/A |
| JB1010ST | **68813** $575.00 | **68811** $435.00 | N/A | N/A | N/A |
| EL210 | **91781**, JB4EP* $255.00 | **92472** $155.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | N/A | N/A |
| EL211A | **91780**, JB4SP* $255.00<br>(However the board does not have section trim capabilities) | **92473**, $160.00 (However the board does not have section trim capabilities) | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | N/A | N/A |
| EL604-AL | **88956**, JB4SS* $250.00 | **88958** $150.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | N/A | N/A |
| EL604STA | **88956**, JB4SS* $250.00 | **88958** $150.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | N/A | N/A |
| EL604ETA | **91779**, JB4ES* $250.00 | **89446** $150.00 | **58983**=PG7, $4.00<br>**59001**=PG11 $3.70 | N/A | N/A |
| EL504 | **21165** $350.00 | **21296** $255.00 | N/A | N/A | N/A |
| JB808S | **91782**, JB8SP* $425.00 | **92471** $385.00 | **15655** (cord grip) $2.10 &<br>**15656** (nut) $1.05 =3/8" NPT<br>**15628** (cord grip) $4.00 &<br>**15630** (nut) $3.00 =1/2" NPT | N/A | N/A |
| JB818ST | **91783**, JB8SPT* $625.00 | Need (1) **77445** $55.00<br>(1) **89889** $365.00, &<br>(1) **89894** $215.00 | **15655** (cord grip) $2.10 &<br>**15656** (nut) $1.05 =3/8" NPT<br>**15628** (cord grip) $4.00 &<br>**15630** (nut) $3.00 =1/2" NPT | N/A | N/A |

**See catalog pages for enclosure dimensions*

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# iQUBE 2®

Digital Diagnostic Junction Box




TuffSeal®

## Standard Features

- iQUBE2® board has four A/D channels
- Stainless steel or Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure
- Supports networking up to four boards, for 16 A/D channels; connection can be up to four separate platforms with a system total, or four separate scale systems
- Diagnostic routines for weighing errors and system health
- Cell tests for overloaded, underloaded, zero reference, drift, noise and unbalanced conditions
- Onboard status LEDs for communication and visual bi-color indication of cell health
- Cell emulator compensates for load cell failure until a repair can be made
- Cal-Match® algorithm automatically trims and calibrates the scale in one pass of test weights (stopping over each mount)
- Standard communication RS-232/RS-422
- Option card slot for fiber optic, Ethernet TCP/IP, wireless TCP/IP, USB or RS-232/485
- Four digital I/O per card, for push-button operation, setpoint control or cell status

## Applications

- Truck and railroad scales
- Tank and hopper scales
- Multi-channel scales
- Communicates to 920i®, 1280, VIRTUi2® and ASCII serial commands

## Dimensions

| Stainless Steel 8 in x 10 in | | | |
|---|---|---|---|
| A | 8.91 in (226.3 mm) | E | 11.50 in (292.1 mm) |
| B | 10.13 in (257.3 mm) | F | 10.75 in (268.5 mm) |
| C | 12.57 in (319.3 mm) | G | 6.00 in (152.4 mm) |
| D | 4.29 in (109 mm) | H | 0.312 in (7.9 mm) |
| **FRP Large 10 in x 12 in** | | | |
| A | 11.30 in (287 mm) | E | 13.53 in (343.7 mm) |
| B | 13.33 in (338.6 mm) | F | 12.76 in (324.1 mm) |
| C | 14.00 in (355.6 mm) | G | 8.00 in (203.2 mm) |
| D | 5.57 in (141.5 mm) | H | 0.312 in (7.9 mm) |
| **FRP Small 8 in x 10 in** | | | |
| A | 9.31 in (236.5 mm) | E | 11.51 in (287.2 mm) |
| B | 11.31 in (287.2 mm) | F | 10.75 in (273.1 mm) |
| C | 12.85 in (326.4 mm) | G | 6.00 in (152.4 mm) |
| D | 5.42 in (137.7 mm) | H | 0.312 in (7.9 mm) |

## Specifications

**Enclosure:**
Stainless steel or Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure

**Voltage Input:**
115/230 V AC power supply DC/DC converter for 9-36 V
6-12 V DC to CPU

**Load Cell Inputs:**
Four channels per board up to four networked boards

**A/D Sampling Rate:**
2.5-500 Hz (selectable)

**Temperature Range:**
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: -13°F to 140°F (-25°C to 60°C)
Storage: 14°F to 158°F (-25°C to 70°C)

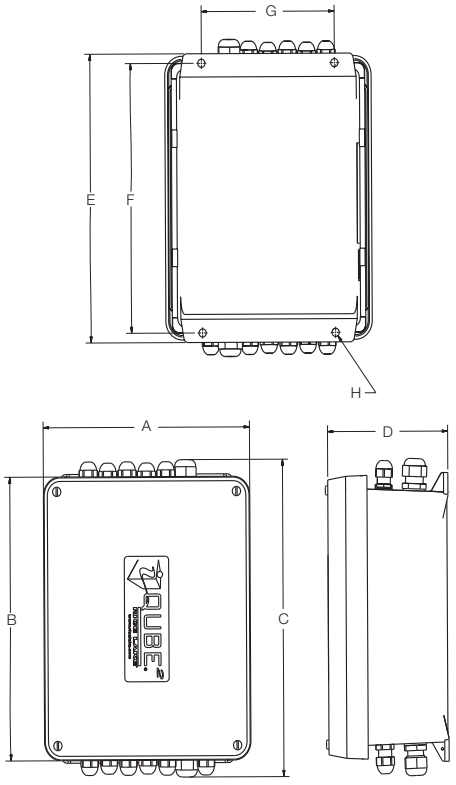
**Analog signal sensitivity:**
0.3 uV/grad at 30 Hz
0.5 uV/grad at 100 Hz
1.2 uV/grad at 500 Hz

**Load Cell Excitation:**
5 V DC, 57 mA maximum per channel

**Analog range:**
-4.5 mV/V to 4.5 mV/V

**Approvals:**
NTEP 03-032A1
Measurement Canada - AM-5561, Rev. 1
UL E151461
CE

**Warranty:**
Two-year limited warranty






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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **With AC Power Supply** | | | |
| **108425*** | iQUBE2, four-channel, FRP 8 in x 10 in junction box | 9 lb | $1,100.00 |
| **108426** | iQUBE2, four-channel, FRP 10 in x 12 in junction box | 11 lb | $1,300.00 |
| **108427** | iQUBE2, eight-channel, FRP 10 in x 12 in junction box | 11 lb | $2,100.00 |
| **108428*** | iQUBE2, four-channel, stainless steel 8 in x 10 in junction box | 13 lb | $1,800.00 |
| **Without Power Supply** | | | |
| **108429*** | iQUBE2, four-channel, FRP 8 in x 10 in junction box | 8 lb | $1,000.00 |
| **108430** | iQUBE2, four-channel, FRP 10 in x 12 in junction box | 10 lb | $1,200.00 |
| **108431** | iQUBE2, eight-channel, FRP 10 in x 12 in junction box | 10 lb | $2,000.00 |
| **108432*** | iQUBE2, four-channel, stainless steel 8 in x 10 in junction box | 12 lb | $1,800.00 |
| **Conduit Adaptors** | | | |
| **92734** | Conduit adaptor 3/8 in NTP to 3/4 in NPT | | $25.00 |
| **92735** | Conduit adaptor 1/2 in NTP to 3/4 in NPT | | $25.00 |

** Enclosure size 8 in x 10 in required for truck scale junction box pocket*

*Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **108433** | Four-channel iQUBE2 board with cables and connectors | $800.00 |
| **97475** | DC/DC power supply, 9-36 VDC(requires factory installation) | $175.00 |
| **108434** | Remote power supply 115/230 VAC and transient board with enclosure | $275.00 |
| **109396** | Transient board | $65.00 |
| **110949** | Transient board with mount | $80.00 |
| **161936** | Hotspot Wi-Fi 802.11 a, b, g | $1,195.00 |
| **161954** | Hotspot in FRP enclosure | $2,795.00 |
| **Communication Card** | | |
| **108579** | RS-232/RS-485 port | $260.00 |
| **77142** | Ethernet TCP/IP | $400.00 |
| **108671** | Wireless LAN 802.11 B/G | $570.00 |
| **93245** | USB port | $175.00 |
| **77143** | Fiber-optic board | $200.00 |
| **77788** | Fiber-optic board (installed in 920i) | $200.00 |
| **Duplex Fiber (Max Run 350 ft)** | | |
| **78026** | Fiber-optic cable, 100 ft | $140.00 |
| **78027** | Fiber-optic cable, 200 ft | $280.00 |
| **78910** | Fiber-optic cable, custom length | $1.40/ft |
| **Home Run Cable** | | |
| **116587** | EL166 16 gauge, six conductor, shielded | $2.65/ft |
| **Software** | | |
| **77925** | Revolution® configuration software | $35.00 |
| **108435** | Virtui2® virtual indicator demo CD | N/C |
| **108436** | Virtui2 activation part number | $500.00 |
| **112262** | Firmware update flash cable | $50.00 |
| **920i® Indicators for use with iQUBE2, requires version 4 software** | | |
| **77790** | 920i universal, 115 VAC, without A/D | $2,025.00 |
| **77791** | 920i universal, 230 VAC, without A/D | $2,025.00 |
| **93243** | 920i deep universal, 115 VAC, without A/D | $2,225.00 |
| **93244** | 920i deep universal, 230 VAC, without A/D | $2,225.00 |
| **77792** | 920i panel mount, 115 VAC, without A/D | $2,025.00 |
| **77793** | 920i panel mount, 230 VAC, without A/D | $2,025.00 |
| **77794** | 920i wall mount, 115 VAC, without A/D | $2,625.00 |
| **77795** | 920i wall mount, 230 VAC, without A/D | $2,625.00 |




## Sample Configurations*

**Not an actual system—illustrates connectivity*



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# iQUBE2®

Digital Diagnostic Junction Box

## Options/Accessories

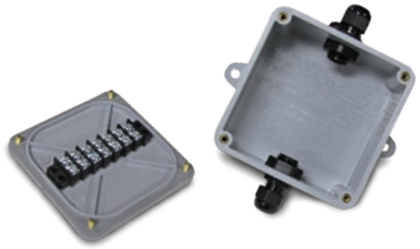
| Part # | Description | Price |
|---|---|---|
| **1280 Indicators for use with iQUBE2** | | |
| **189623** | 1280 7 in touch-only, AC power supply, no power cord, standard display, without A/D | $2,480.00 |
| **188526** | 1280 7 in touch-only, AC power supply, no power cord, high visibility display, without A/D | $2,580.00 |
| **188395** | 1280 12 in touch-only, AC power supply, no power cord, high visibility display, without A/D | $3,180.00 |
| **181073** | 1280 panel mount, DC power supply, no power cord, standard display, without A/D | $2,480.00 |
| **178473** | 1280 panel mount, AC power supply, no power cord, high visibility display, without A/D | $2,580.00 |
| **176214** | 1280 wall mount, AC power supply, U.S. power cord, standard display, without A/D | $2,680.00 |
| **171667** | 1280 wall mount, AC power supply, U.S. power cord, high visibility display, without A/D | $2,940.00 |
| **174750** | 1280 panel mount, AC power supply, no power cord, standard display, without A/D | $2,480.00 |
| **174207** | 1280 universal, AC power supply, Europe power cord, standard display, without A/D | $2,680.00 |
| **171582** | 1280 universal, AC power supply, U.S. power cord, standard display, without A/D | $2,680.00 |
| **188713** | 1280 universal, DC power supply, no power cord, standard display, without A/D | $2,645.00 |
| **171540** | 1280 universal, DC power supply, no power cord, high visibility display, without A/D | $2,705.00 |
| **172419** | 1280 universal, AC power supply, U.S. power cord, high visibility display, without A/D | $2,780.00 |



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# EL168

1-Cell Junction Box



## Specifications

**Dimensions:**
(W x L x D) 4 in x 4 in x 2.5 in

**Mounting Centers:**
3.75 in x 2.31 in (95.2 mm x 58.7 mm)

**Temperature:**
Operating Range: 0°F to 122°F (-18°C to 50°C)

**Cable Fittings:**
Nylon waterproof strain-relief type

**Cable Diameter:**
0.079 in-0.314 in (2.0 mm-8.0 mm)

**Terminal Block:**
Rated 300 V/15 A; seven-position, screw terminal can each accommodate up to # 16 AWG

**Warranty:**
One-year limited warranty

## Standard Features

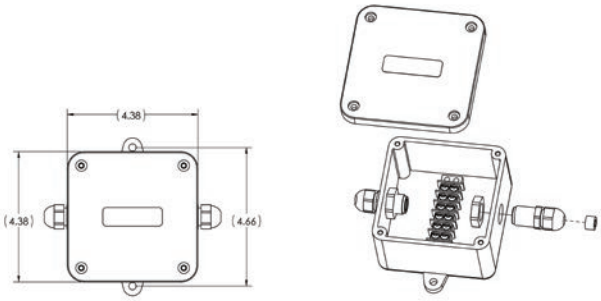
- Non-metallic PVC enclosure with separate input and output cable fittings
- No soldering, compression or swaged fittings are required

## Applications

- For splicing or extending load cell cable

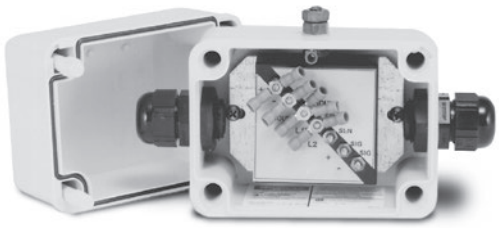
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **21161** | EL168 one-cell junction box | $66.00 |




# TP75 DC

Transient Protection



## Specifications

**Protection Type:**
Six-channel type with separate shield

**Maximum Excitation Voltage:**
22.8 VDC

**Response Time:**
Five nanoseconds

**Peak Surge Currents:**
100 amps

**Series Resistance:**
0.0 ohm

**Series Inductance:**
0.0 µh

**Grounding:**
10 AWG wire or larger (not provided)

**Cable Fitting:**
(2) nylon strain relief for 0.187in-0.312in (4.7mm-7.9mm) diameter cable

**Enclosure:**
Impact-resistant polycarbonate NEMA Type 4X, maximum 40 psi washdown

**Operating Temperature:**
4°F to 121°F (-20°C to 85°C)

**Circuit Board Dimensions:**
2.22 x 2.22 in (56.4 x 56.4 mm)

**Dimensions:**
(W x H x D) 4.38 x 3.15 X 3.38 (111.1 x 80 x 85.9 mm)

**Warranty:**
One-year limited warranty

## Standard Features

- Avalanche diode design
- Full six-wire with shield protection
- NEMA Type 4X enclosure
- Unlimited number of parallel load cells; up to eight in series
- Terminal lugs provided

## Applications

- Protects load cells and indicators from voltage transients
- Tank, bin and hopper scales
- Truck and railroad scales
- Suitable for outdoor use

## Part Number/Price

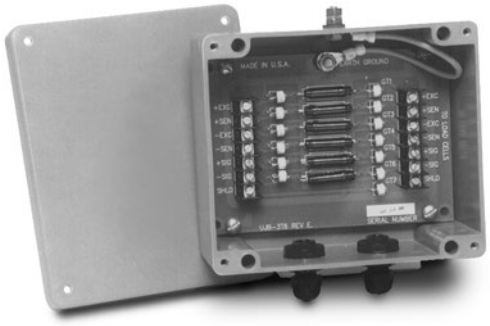
| Part # | Description | Price |
|---|---|---|
| **33185** | TP75 DC transient protection | $225.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **31164** | Circuit board only | $170.00 |

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# UJB3T6 DC
Transient Protection



## Standard Features

- Factory serviceable
- Full six-wire with shield protection
- #6 SEMS screw type; accepts spade lugs, tinned leads or bare wires up to #12 AWG
- Up to eight parallel or summed load cells
- 50K baud maximum transmission frequency

## Applications

- Protects load cells from voltage transients
- Compatible with signals down to 1 µV grad
- Installations exposed to significant transients
- Protects serial communication lines

## Part Number/Price

| Part# | Description | Price |
|---|---|---|
| **21134** | UJB3T6 | $425.00 |

## Options/Accessories

| Part# | Description | Price |
|---|---|---|
| **21135** | Six-channel load cell transient protector, board only | $250.00 |

## Specifications

**Protection Type:**
Six-channel type with separate shield

**Maximum Excitation Voltage:**
20 VDC or 20 VAC

**Clamping Voltage:**
75 VDC or 75 VAC

**Clamping Time:**
75 VDC Stages <100 nanoseconds typical

**Peak Surge Currents:**
75 VDC Stage-5000 amperes

**Maximum Serial Transmission Rate:**
50K baud

**Series resistance:**
0.219 ohm typical

**Series inductance:**
110 µh typical

**Grounding:**
20 ft (6.1 m) insulated # 10 AWG wire

**Cable Fitting:**
(2) nylon strain relief for 0.079-0.236 in (2.0-6.0 mm) diameter cable

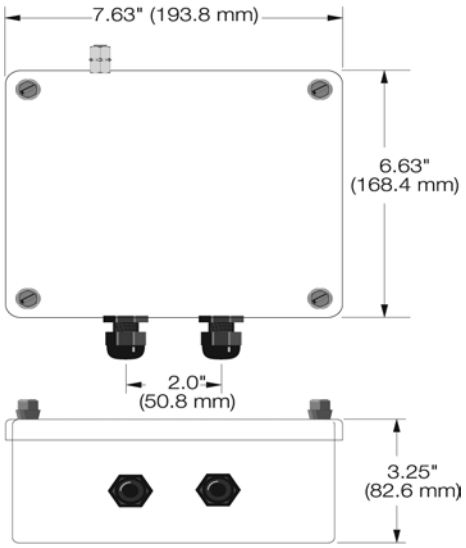
**Enclosure:**
Fiberglass-Reinforced Polyester (FRP) NEMA Type 4X, maximum 40 psi washdown

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Circuit Board:**
6.75 x 4.75 in (171.5 x 120.7 mm) with anti-fungal coating

**Dimensions:**
7.63 W x 6.63 H x 3.25 in D
(193.8 W x 168.3 H x 82.6 mm D)

**Warranty:**
One-year limited warranty






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# TP232 RS-232

High Energy Serial Protection




## Specifications

**Clamping Voltage (Stage One):**
72 V DC minimum, 108 V DC maximum

**Series Resistance (Stage Two):**
2.7 ohm

**Clamping Voltage (Stage Three):**
14.3 V minimum, 15.7 V maximum

**Temperature:**
Operating Range: 0°F to 122°F (-18°C to 50°C)

**Clamping Time:**
Less than 5 x 10-9 seconds

**Connectors:**
Five-position terminal blocks

**Dimensions:**
Approximately 4.5 L x 3.3 W x 1.8 in H
(114.3 L x 83.8 W x 45.7 mm H)

**Weight:**
Approximately 0.42 lb (0.19 kg)

**Approvals:**
CE marked

**Warranty:**
One-year limited warranty

## Standard Features

- Two metal mounting brackets
- Three stages of protection: Gas discharge tube, series resistor and transient voltage suppressor (TVS)
- Two terminal posts for ground
- RS-232 high energy surge protector
- Terminal blocks for transmit, receive, request to send, clear to send and signal ground
- Safe for use with computers and PLCs

## Applications

- Indicators
- Remote displays
- Printers
- Computers
- PLC

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **69201** | TP232 | $175.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **17778** | 12 in ground strap | $14.00 |
| **17781** | 24 in ground strap | $18.00 |
| **69516** | Additional installation manual | $6.00 |

# Ranger 1




## Specifications

**Variable Range:**
0-3 mV/V

**Impedance:**
700 ohm nominal

**Temperature:**
Operating Range: 0°F to 122°F (-18°C to 50°C)

**Connectors:**
Binding posts suitable for banana plug or
14 gauge wire

**Temperature Coefficient:**
±100 ppm/ °C

**Dimensions:**
(W x L x H) 4.5 in x 3.5 in x 1.25 in (114.3 mm x
88.9 mm x 31.8 mm)

**Warranty:**
One-year limited warranty

## Standard Features

- ABS plastic case, weighs less than 1 lb
- Large vernier knob, smooth 10-turn potentiometer
- Ideal tool for troubleshooting a scale system, bench testing stability of indicators and setpoint simulation
- Binding posts are color coded to ISA S37.8 standard

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **68029** | Ranger 1 variable range simulator | $145.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **21116** | Cable with banana plugs | $60.00 |



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# Ranger 3




## Standard Features

- ABS plastic case, weighs less than 1 lb
- Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in nine steps of 0.5mV/V per step
- Ideal tool for calibrating the indicator A-D offset and gain setting
- A-D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
- Used in testing, troubleshooting and calibrating digital weight indicators
- Binding posts are color coded to ISA S37.8 standard

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **68030** | Ranger 3 simulator | $360.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **21116** | Cable with banana plugs | $60.00 |

## Specifications

**Range:**
-0.5 mV/V-4.5 mV/V range

**Impedance:**
350 ohm nominal

**Nonlinearity:**
Less than 0.02%

**Connectors:**
Binding posts suitable for banana plug or 14-gauge wire

**Temperature Coefficient:**
±5 ppm/ °C

**Dimensions:**
(W x L x H) 4.5 in x 3.5 in x 1.25 in (114.3 mm x 88.9 mm x 31.8 mm)

**Warranty:**
One-year limited warranty

# Transducer Simulator 4




## Standard Features

- Designed for high accuracy
- Sealed lid with neoprene O-ring
- Dustproof and crush tested to 500 lb
- Four operational modes include: vernier adjustment, calibrated adjustment, 0.25 mV/V offset and 0.50 mV/V offset
- Ideal for setpoint or batching simulation

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **22513** | Transducer simulator 4 | $750.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **21116** | Cable with banana plugs | $60.00 |

## Specifications

**Range:**
Choose any fixed setting ± 0.25 mV or 0.50 mV through a 10-turn wire-wound potentiometer with locking clutch, fixed and variable

**Maximum Voltage:**
15 V

**Linearity:**
Less than ± 0.02% full scale

**Temperature Coefficient:**
Absolute 5 ppm/°C; Tracking less than 0.5 ppm/°C

**Load Factors:**
Simulates one, two, three, four or eight 350-ohm load cells; or two, four, six, eight or 16 700-ohm load cells

**Offset:**
+0.25mV/V for use with digitally calibrated meters requiring positive dead load for calibration

**Connectors:**
Six-way binding posts, suitable for loose wires or banana jacks

**Warranty:**
One-year limited warranty



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# Ranger 5

## Specifications

**Fixed Steps:**
-0.5 mV/V–4.5 mV/V range

**Vernier:**
Variable range: up to 0.5 mV/V, up to 1 mV/V, up to 1.5 mV/V

**Impedance:**
350 ohm nominal

**Nonlinearity:**
Less than 0.02%

**Connectors:**
Binding posts suitable for banana plug or 14 gauge wire

**Temperature Coefficient:**
± 5 ppm/°C

**Dimensions:**
(L x W x H) 4.5 in x 3.5 in x 1.25 in (114.3 mm x 88.9 mm x 31.8 mm)

**Warranty:**
One-year limited warranty




## Standard Features

- ABS plastic case, weighs less than 1 lb
- Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in nine steps of 0.5 mV/V per step
- 10-turn vernier knob with locking graduated dial
- Vernier selection of four ranges: Off, Fine, Medium and Coarse
- Ideal tool for calibrating indicator A/D offset and gain setting
- A/D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
- Used in testing, troubleshooting and calibrating digital weight indicators
- Binding posts are color coded to ISA S37.8 standard

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **68031** | Ranger 5 simulator | $460.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **21116** | Cable with banana plugs | $60.00 |

# Ranger 7

## Specifications

**Vernier:**
Two ranges; one is equal to the sum of the 0.05 mV/V switch and the 0 mV/V-0.5 mV/V switch. The other is the sum of the 0.5 mV/V, 0.1 mV/V and 0.01 mV/V switches.

**Load Impedance:**
Three settings: X0.5= 700 ohms,
X1= 350 ohms (one standard load cell),
X4= 87.5 ohms (four load cell platform)

**Linearity:**
± 0.01% + 1µV

**Connectors:**
Low Thermal Electronics, Type 2758 precision gold plated binding posts Standard banana jacks or 14 AWG wire

**Temperature Coefficient:**
5 ppm/°C

**Zero Offset:**
± 0.0005 mV/V

**Output Range:**
0 mV/V-3 mV/V in 0.01 mV/V steps

**LED Annunciators:**
EXC +
EXC –
Offset ON
0.5 mV/V
0.1 mV/V




## Standard Features

- Designed for high resolution,
- Used in high precision testing, troubleshooting and calibrating digital weight indicators
- Switchable offset
- Painted die-cast enclosure

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **157323** | Ranger 7 high resolution calibration simulator | $900.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **21116** | Cable with banana plugs | $60.00 |





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# Livestock Scales

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**ROUGHDECK® SLV**.....**662**
*Single Animal Livestock Scale*

**FARM BARS**.....**664**

**ESPAÑOL** | Visite **ricelake.com/spanish** para ver todos los materiales Rice Lake que están disponibles en español.

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# RoughDeck® SLV

Single Animal Livestock Scale




## Standard Features

- Mild steel construction
- Rugged diamond safety treadplate deck
- Rigid structural steel channel frame
- NEMA Type 4X stainless steel side-access junction box without quick connector
- Signal trim summing board
- Four adjustable stainless steel SUREFOOT™ support feet
- 20 ft (6 m) SURVIVOR® EL147HE hostile environment load cell cable
- Four alloy steel load cells

## APPROVALS

## Part Number/Price

| Part # | Outside Dimensions | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **103617** | 8 ft x 3 ft | 4,000 lb, 20 ft without Quick Connect, modified to fit gate and rack (scale platform only) | 565 lb | $2,800.00 |
| **78452** | 8 ft x 3 ft | 4,000 lb, 20 ft without Quick Connect (gate and rack not included) (scale platform only) | 565 lb | $2,800.00 |
| **103619** | 8 ft x 4 ft | 4,000 lb, 20 ft without Quick Connect, modified to fit gate and rack (scale platform only) | 750 lb | $2,900.00 |
| **78453** | 8 ft x 4 ft | 4,000 lb, 20 ft without Quick Connect (gate and rack not included) (scale platform only) | 750 lb | $2,900.00 |
| **RoughDeck SLV 4,000 lb Bundle Package (Ships Assembled)** | | | | |
| **124192** | 8 ft x 3 ft | Includes: scale, 2 swing gates and racks, kick plates,482 digital indicator, factory calibration | 1,200 lb | $5,100.00 |
| **160100** | 8 ft x 3 ft | Includes: scale, 2 sliding gates and racks, kick plates,482 digital indicator, factory calibration | 1,310 lb | $7,500.00 |
| **124193** | 8 ft x 4 ft | Includes: scale, 2 swing gates and racks, kick plates, 482 digital indicator, factory calibration | 1,500 lb | $5,500.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Smooth deck instead of diamond safety tread plate | N/C |
| **Consult** | Stainless steel load cells (RL32018S IP66) and hardware | $120.00 list price add-on |
| **Consult** | Stainless steel hermetically sealed load cells (RL32218S-HE IP69K) and hardware | $440.00 list price add-on |
| **Consult** | Angle iron bolted to scale for wood deck provisions (wood to be supplied by customer) | $200.00 |
| **Consult** | Rubber mat | Consult |
| **Consult** | Slide gate | Consult |
| **18777** | Floor anchor plates, mild steel (set of 2) | $35.00 |
| **18778** | Floor anchor plates, stainless steel (set of 2) | $45.00 |

## Specifications

**End Load Capacity:**
125% full scale

**Outside Dimension:**
(L x W) 8 ft x 3 ft
(L x W) 8 ft x 4 ft

**Cable Length:**
20 ft (6 m)

**Capacity:**
8 ft x 3 ft: 4,000 lb increments
8 ft x 4 ft: 4,000 lb increments

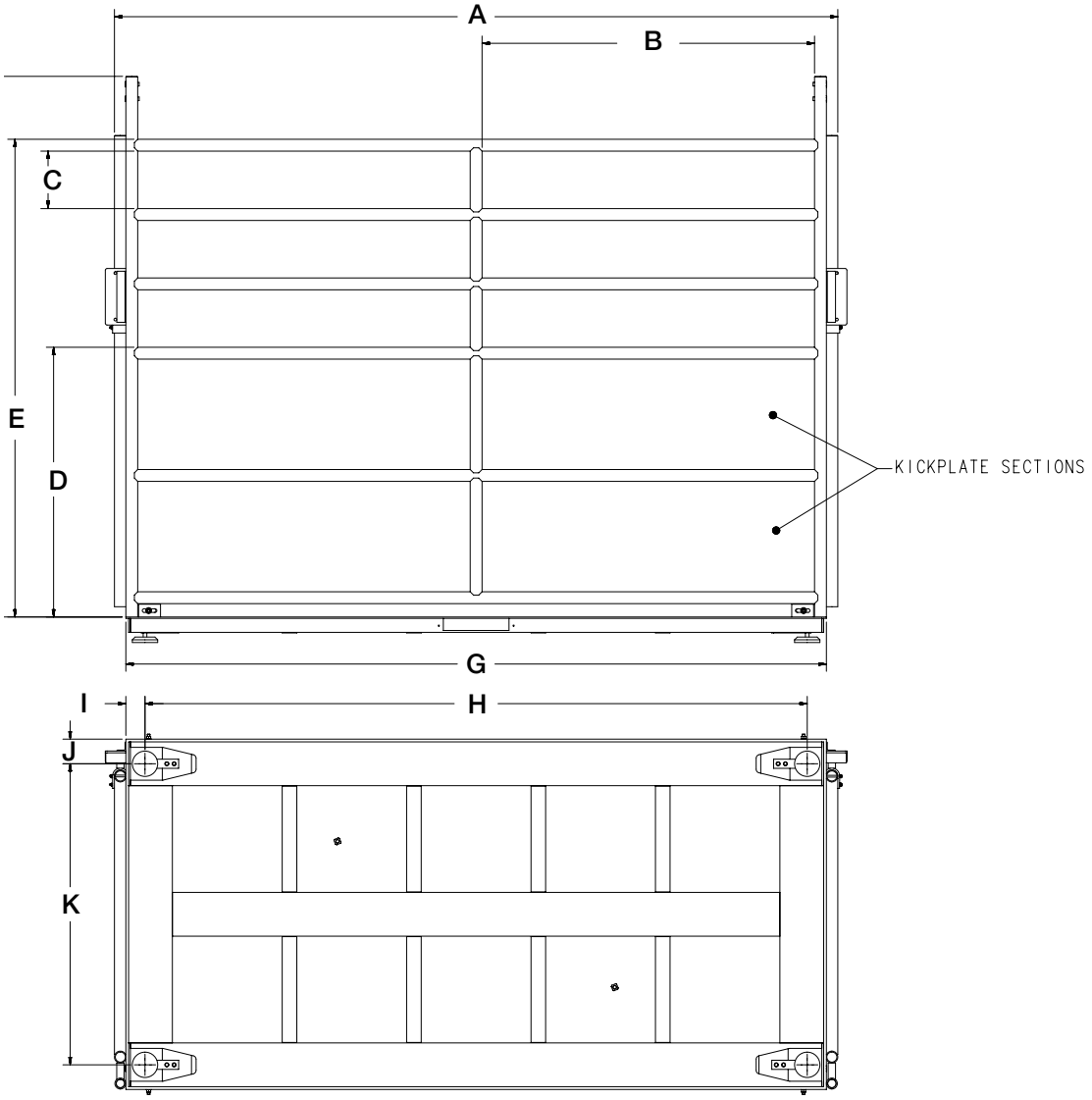
**Warranty:**
Two-year limited warranty (scale only)

**Approvals:**
NTEP CC 92-001 Class III 4,000d

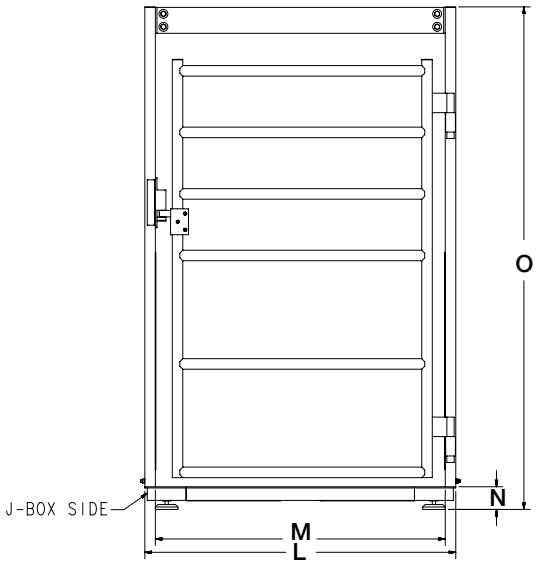
*Capacity not to exceed 4,000 x 1 lb and platform size not to exceed 32 sq ft.*



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| Dimensions | | | |
|---|---|---|---|
| **3 ft x 8 ft** | | | |
| A | 99.12 in | I | 2.625 |
| B | 45.56 | J | 3.375 |
| C | 7.88 | K | 29.25 |
| D | 36.95 | L | 36 |
| E | 65.45 | M | 32.75 |
| F | 74.00 | N | 3.50 |
| G | 95.00 | O | 77.58 |
| H | 90.75 | | |
| **4 ft x 8 ft** | | | |
| A | 99.12 in | I | 2.625 |
| B | 45.56 | J | 3.375 |
| C | 7.88 | K | 41.250 |
| D | 36.95 | L | 48 |
| E | 65.45 | M | 44.75 |
| F | 74.00 | N | 3.50 |
| G | 95.00 | O | 77.58 |
| H | 90.75 | | |









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# Farm Bars



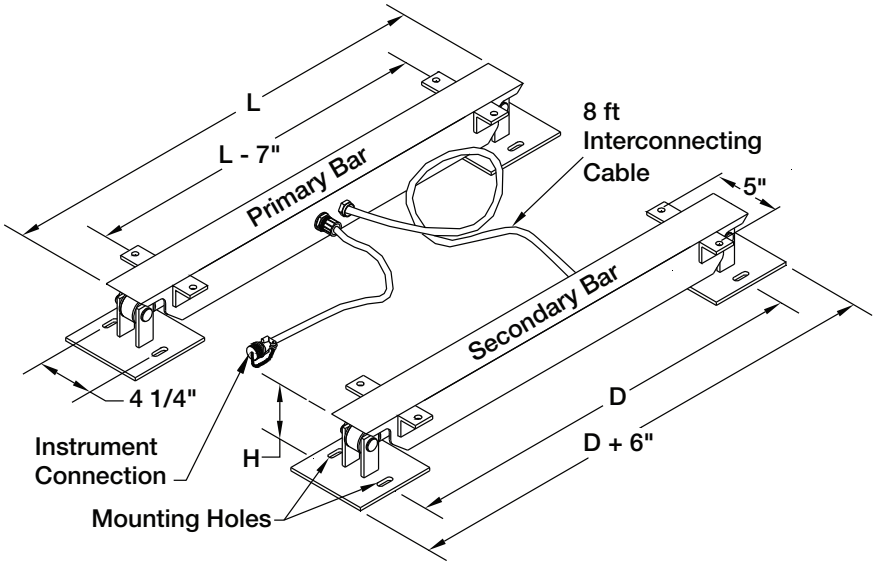

## Standard Features

- Indicator cable length 12 ft
- Three feet ArmorGuard cable included
- Kit includes 482 Legend Series digital weight indicator
- Factory calibrated when sold with instrumentation
- Capacities from 2,500 lb to 10,000 lb

| Dimensions, Farm Bar 2,500U | | | | |
|---|---|---|---|---|
| L | L-7 in | D | D + 6 in | H |
| 22 in | 15 in | 19.75 in | 25.75 in | 4 in |

| Dimensions, Farm Bar 5,000U | | | | |
|---|---|---|---|---|
| L | L-7 | D | D + 6 | H |
| 26 in | 19 in | 23.75 in | 29.75 in | 4 in |
| 33 in | 26 in | 30.75 in | 36.75 in | 4 in |
| 36 in | 29 in | 33.75 in | 39.75 in | 4 in |
| 40 in | 33 in | 37.75 in | 43.75 in | 4 in |
| 44 in | 37 in | 41.75 in | 47.75 in | 4 in |
| 48 in | 41 in | 45.75 in | 51.75 in | 4 in |

| Dimensions, Farm Bar 10,000U | | | | |
|---|---|---|---|---|
| L | L-7 | D | D + 6 | H |
| 32 in | 25 in | 29.75 in | 35.75 in | 4 in |
| 36 in | 29 in | 33.75 in | 39.75 in | 4 in |
| 48 in | 41 in | 45.75 in | 51.75 in | 4 in |
| 60 in | 53 in | 57.75 in | 63.75 in | 4 in |
| 72 in | 65 in | 69.75 in | 75.75 in | 4 in |




## Specifications

**Safe Overload:**
150%

**Full Scale Output (FS):**
3mv/V nominal**
** Output is standardized for each model of load bar, consult factory for details

**Maximum Excitation:**
15 VDC

**Nonlinearity:**
0.02% FS

**Hysteresis:**
0.02% FS

**Thermal Sensitivity Shift:**
0.0008% of reading/° F

**Thermal Zero Shift:**
0.0015% FS/° F

**Side Discrimination:**
1,000:1

**Bridge Resistance:**
350 ohms

**Temperature Range:**
-40 to 111°F (-40 to 44° C)

**Cable Configuration:**
8 ft between bars and 12 ft for the indicator

**Warranty:**
Two-year limited warranty



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## Part Number/Price

| Part # | Size L x W x H | Description | Est. Weight | Price |
|---|---|---|---|---|
| **With Instrumentation** | | | | |
| **2,500 lb Capacity** | | | | |
| **127519** | 22 x 2 x 4 in | 2,500 lb 22 – Farm Bar Kit, 22 in with 482, 2,500 capacity, square pads | 98 lb | $2,195.00 |
| **5,000 lb Capacity** | | | | |
| **130259** | 26 x 2 x 4 in | 5,000 lb 26 – Farm Bar Kit, 26 in with 482, 5,000 capacity, square pads | 117 lb | $2,495.00 |
| **127761** | 33 x 2 x 4 in | 5,000 lb 33 – Farm Bar Kit, 33 in with 482, 5,000 capacity, square pads | 123 lb | $2,495.00 |
| **130264** | 36 x 2 x 4 in | 5,000 lb 36 – Farm Bar Kit, 36 in with 482, 5,000 capacity, square pads | 128 lb | $2,495.00 |
| **128678** | 40 x 2 x 4 in | 5,000 lb 40 – Farm Bar Kit, 40 in with 482, 5,000 capacity, square pads | 134 lb | $2,495.00 |
| **128679** | 44 x 2 x 4 in | 5,000 lb 44 – Farm Bar Kit, 44 in with 482, 5,000 capacity, square pads | 140 lb | $2,495.00 |
| **130269** | 48 x 2 x 4 in | 5,000 lb 48 – Farm Bar Kit, 48 in with 482, 5,000 capacity, square pads | 146 lb | $2,495.00 |
| **10,000 lb Capacity** | | | | |
| **185436** | 32 x 2 x 4 in | 10,000 lb 32 – Farm Bar Kit, 32 in with 482, 10,000 capacity, square pads | 152 lb | $2,695.00 |
| **127498** | 36 x 2 x 4 in | 10,000 lb 36 – Farm Bar Kit, 36 in with 482, 10,000 capacity, square pads | 152 lb | $2,695.00 |
| **127502** | 48 x 2 x 4 in | 10,000 lb 48 – Farm Bar Kit, 48 in with 482, 10,000 capacity, square pads | 175 lb | $2,695.00 |
| **127504** | 60 x 2 x 4 in | 10,000 lb 60 – Farm Bar Kit, 60 in with 482, 10,000 capacity, square pads | 210 lb | $2,695.00 |
| **127506** | 72 x 2 x 4 in | 10,000 lb 72 – Farm Bar Kit, 72 in with 482, 10,000 capacity, square pads | 230 lb | $2,695.00 |
| **Without Instrumentation** | | | | |
| **2,500 lb Capacity** | | | | |
| **152016** | 22 x 2 x 4 in | 2,500 lb 22 – Farm Bar set, with square pads | 92 lb | $1,795.00 |
| **5,000 lb Capacity** | | | | |
| **152018** | 26 x 2 x 4 in | 5,000 lb 26 – Farm Bar set, with square pads | 111 lb | $2,095.00 |
| **152019** | 33 x 2 x 4 in | 5,000 lb 33 – Farm Bar set, with square pads | 117 lb | $2,095.00 |
| **152020** | 36 x 2 x 4 in | 5,000 lb 36 – Farm Bar set, with square pads | 122 lb | $2,095.00 |
| **152021** | 40 x 2 x 4 in | 5,000 lb 40 – Farm Bar set, with square pads | 128 lb | $2,095.00 |
| **152022** | 44 x 2 x 4 in | 5,000 lb 44 – Farm Bar set, with square pads | 134 lb | $2,095.00 |
| **152023** | 48 x 2 x 4 in | 5,000 lb 48 – Farm Bar set, with square pads | 140 lb | $2,095.00 |
| **10,000 lb Capacity** | | | | |
| **185437** | 32 x 2 x 4 in | 10,000 lb 32 – Farm Bar set, with square pads | 146 lb | $2,395.00 |
| **152024** | 36 x 2 x 4 in | 10,000 lb 36 – Farm Bar set, with square pads | 146 lb | $2,395.00 |
| **152025** | 48 x 2 x 4 in | 10,000 lb 48 – Farm Bar set, with square pads | 169 lb | $2,395.00 |
| **152026** | 60 x 2 x 4 in | 10,000 lb 60 – Farm Bar set, with square pads | 204 lb | $2,395.00 |
| **152027** | 72 x 2 x 4 in | 10,000 lb 72 – Farm Bar set, with square pads | 224 lb | $2,395.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **159788** | Extension cable, farm bar, 10 ft long | $195.00 |
| **127556** | Home Run Cable, 12ft. long, 4-pin male to blunt end, for indicator | $95.00 |
| **164582** | 482 Indicator, with internal rechargeable battery | $962.00 |
| **23113** | Printer TM-U295 | $615.00 |
| **71630** | Scale tickets, 500/pack | $50.00 |
| **15547** | Blunt end to DB25, RS-232 cable for printer to indicator | $65.00 |





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# Load Cells / Weigh Modules

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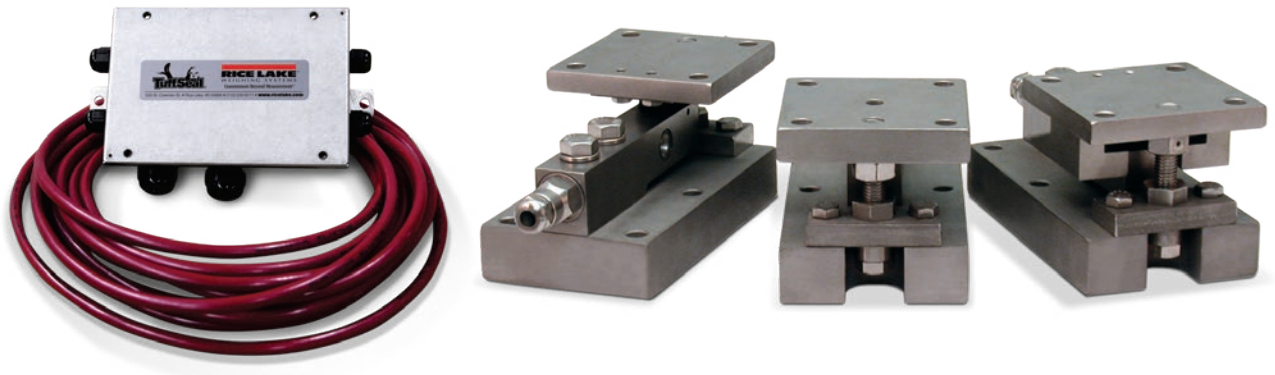

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SURVIVOR WEIGH MODULE

# SURVIVOR Paramounts® HE

Medium-capacity Weigh Module Systems



*Picture is a representation of actual product.*

Consisting of three different weigh module designs, the Paramounts system offers superior accuracy, even in applications with extreme expansion, contraction and vibration. The fixed-pin module acts as the vessel's primary reference point, enabling rotation. A single side-stop module is then paired with the fixed-pin module to permit mechanical expansion and contraction in one direction. The vessel then becomes a high-accuracy weighing system with the addition of one to six free-sliding modules. This system offers the free motion necessary to eliminate unwanted mechanical side loads, as well as the strength needed to keep the vessel in check. This gives the Paramounts system its industry-leading reputation for exceptional accuracy in unfriendly environments. Integral jacking/shipping bolts enhance safety by preventing accidental lift-off, facilitating quick field removal of load cells and eliminating load cell damage during transportation. Matched outputs and field-replaceable cable simplify installation and enhance serviceability. As a system, Paramounts represents the ultimate combination of convenience, accuracy and control.

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- One fixed-pin module, one side-stop module, and one or two free-sliding assemblies. Each module is complete with a FLINTEC SB4 or SB10 (520lb) stainless steel hermetically sealed load cell.
- 25ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 520lb-22,500lb (2.3kN/102.1kg-100kN/10,205.9kg)
- All stainless steel construction
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Hermetically-sealed, stainless steel load cells
- Load cell outputs are matched to ± 0.07%, minimizing maintenance costs
- Unique design allows for thermal expansion/ contraction
- Low-profile, self-checking design
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique patented blind load hole technology minimizes unwanted side and eccentric loading
- Vessel is free to slide laterally on PTFE-coated surfaces
- Two-year limited warranty

## Applications

- Medium-capacity, high-vibration mixers, blenders and tanks
- Batching/blending
- Pharmaceutical processing
- Food processing
- Petroleum refining and batching

## Optional Features

- NTEP Certified load cells available: Capacities 1,125 lb-11,250 lb
- OIML certified load cells available: Capacities 1,125 lb-11,250 lb

## Load Cell Certifications

FM APPROVED *Except 520 lb*

NTEP

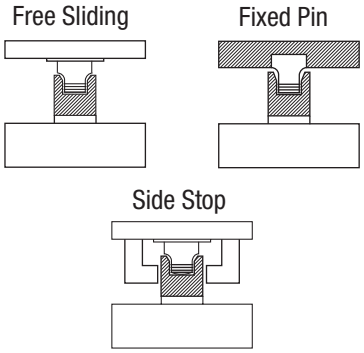
WATER PROOF *IP66/69K*

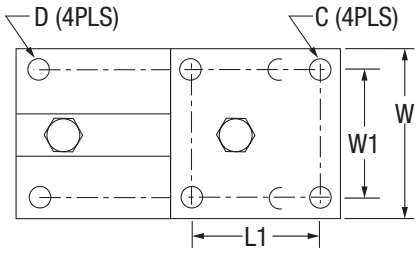


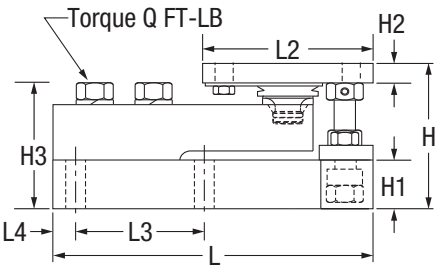
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# SURVIVOR Paramounts® HE

Medium-capacity Weigh Module Systems




## Dimensions

| Rated Capacity | C | D | H | H1 | *H2 | **H2 | H3 | L | L1 | L2 | L3 | L4 | W | W1 | Q (FT- LB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | |
| 520 (2.3 kN) | 0.375 | 0.437 | 3.49 | 1.00 | 0.50 | 0.75 | 2.98 | 7.51 | 3.00 | 4.00 | 3.00 | 0.50 | 4.00 | 3.00 | 65.0 |
| 1,125-5,200 (5-23 kN) | 0.437 | 0.437 | 3.58 | 1.25 | 0.50 | 0.75 | 3.06 | 7.51 | 3.00 | 4.00 | 3.00 | 0.50 | 4.00 | 3.00 | 65.0 |
| 11,250 (50 kN) | 0.562 | 0.562 | 4.66 | 1.50 | 0.62 | 1.00 | 4.09 | 9.19 | 3.87 | 5.00 | 3.87 | 0.56 | 5.00 | 3.87 | 295 |
| 22,500 (100 kN) | 0.688 | 0.688 | 6.41 | 2.00 | 0.75 | 1.25 | 5.73 | 11.46 | 4.75 | 6.00 | 4.75 | 0.69 | 6.00 | 4.75 | 515.0 |
| **kg/mm** | | | | | | | | | | | | | | | |
| 236.1 | 9.5 | 11.1 | 88.6 | 25.4 | 12.7 | 19.1 | 75.7 | 190.8 | 76.2 | 101.6 | 76.2 | 12.7 | 101.6 | 76.2 | - |
| 510.8-2,360.0 | 11.1 | 11.1 | 90.9 | 31.8 | 12.7 | 19.1 | 77.7 | 190.8 | 76.2 | 101.6 | 76.2 | 12.7 | 101.6 | 76.2 | - |
| 5,107.5 | 14.3 | 14.3 | 118.4 | 38.1 | 15.7 | 25.4 | 103.9 | 233.4 | 98.3 | 127.0 | 98.3 | 14.2 | 127.0 | 98.3 | - |
| 10,215.0 | 17.5 | 17.5 | 162.8 | 50.8 | 19.1 | 31.8 | 145.5 | 291.1 | 120.7 | 152.4 | 120.7 | 17.5 | 152.4 | 120.7 | - |

*kN = Kilonewtons*

**Side stop and free sliding units* ***Fixed pin units*

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **NTEP Certified/OIML C3 3-Module Kit** | | | |
| 1,125 lb | 5 kN/510.8 kg | **29883** | $3,705.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **29884** | $3,705.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **29885** | $3,705.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **29886** | $5,015.00 |
| **NTEP Certified/OIML C3 4-Module Kit** | | | |
| 1,125 lb | 5 kN/5,10.8 kg | **29879** | $4,925.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **29880** | $4,925.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **29881** | $4,925.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **29882** | $6,325.00 |
| **Non-NTEP Certified 3-Module Kit** | | | |
| 520 lb | 2.3 kN/236.1 kg | **38207** | $4,205.00 |
| 1,125 lb | 5 kN/510.8 kg | **17991** | $3,605.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **17992** | $3,605.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **17993** | $3,605.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **17994** | $4,675.00 |
| 22,500 lb | 100 kN/10,215.0 kg | **17995** | $5,345.00 |
| **Non-NTEP Certified 4-Module Kit** | | | |
| 520 lb | 2.3 kN/236.1 kg | **38208** | $5,325.00 |
| 1,125 lb | 5 kN/510.8 kg | **17998** | $4,695.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **17999** | $4,695.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **18000** | $4,695.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **18001** | $5,900.00 |
| 22,500 lb | 100 kN/10,215.0 kg | **18002** | $7,440.00 |
| *Conduit adapter, 1/2-14 NPT | | **17703** | $45.00 |

**Must be factory installed*



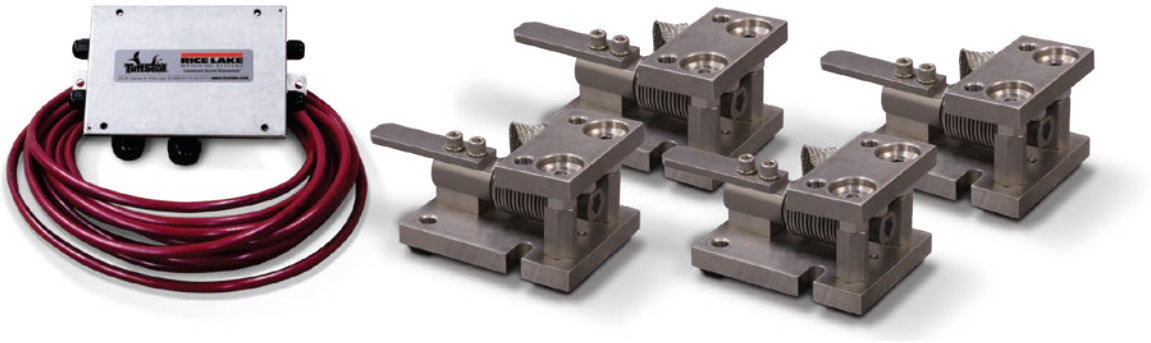
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# RL1700 HE

Light- to Medium-capacity Weigh Modules



*Picture is a representation of actual product.*

The RL1700 HE offers precision-machined, weldless construction to maximize washdown cleaning effectiveness. This design, coupled with integral jacking/shipping bolts, eases installation and minimizes maintenance costs. OIML C3-certified load cells in capacities from 5 kg to 5,000 kg provide accurate, consistent weighments. Ideal for multi-ingredient micro-batching applications, the RL1700 HE provides exceptional performance in hostile environments. The RL1700 HE offers a guaranteed waterproof rating to ensure reliable performance in moisture-laden environments.

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal-trim junction box
- Three or four RL1700 HE stainless steel compression mounts
- Three or four RL9018SS (5kg-250 kg) or RLHT0 (500kg-5,000 kg) stainless steel, hermetically sealed single-ended beam load cells
- 25ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- All stainless steel construction
- Hermetically sealed, stainless steel load cells, IP66/68, guaranteed waterproof
- OIML certified load cells from 5 kg-5,000 kg
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Self-checking with lift-off/tip-over protection and jacking/shipping bolts
- Load cell is isolated from overload in all directions
- Weldless construction retains less residue and allows fast, thorough cleaning
- Two-year limited warranty

## Applications

- Multi-ingredient micro-batching
- Meat and poultry processing
- Batching/blending
- Dye/ink blending

## Load Cell Certifications

IP66/68

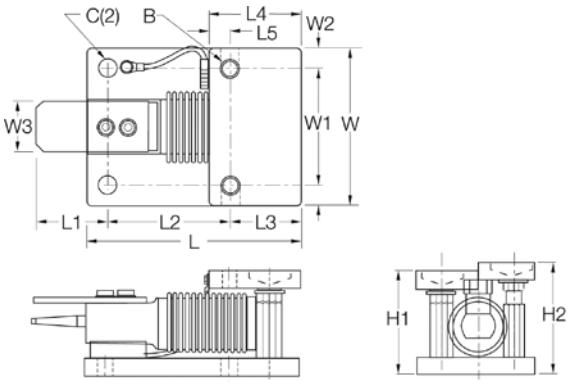




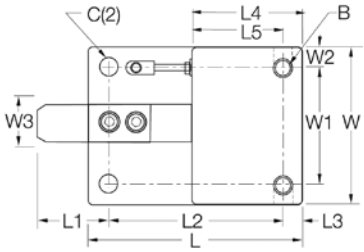
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# RL1700 HE

Light- to Medium-capacity Weigh Modules




5 kg - 250 kg capacities




500 kg - 5000 kg capacities

## Dimensions

| Rated Capacity | C | B | *H1 | **H2 | L | L1 | L2 | L3 | L4 | L5 | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | | | |
| 5-250 | 12.9 | 1/2-20 UNF | 80.0 | 86.1 | 131.8 | 63.7 | 76.0 | 42.0 | 56.0 | 13.97 | 96.0 | 70.0 | 12.9 | 25.4 |
| 500-2,000 | 12.9 | 5/8-18 UNF | 101.6 | 109.4 | 165.0 | 70.0 | 129.5 | 14.9 | 80.0 | 59.94 | 110.0 | 70.0 | 20.0 | 31.7 |
| 5,000 | 20.0 | 3/4-10 UNC | 135.0 | 143.0 | 215.0 | 81.0 | 161.0 | 20.0 | 90.0 | 70.5 | 150.0 | 90.0 | 30.0 | 40.0 |
| **lb/in** | | | | | | | | | | | | | | |
| 11-550 | 0.53 | 1/2-20 UNF | 3.13 | 3.39 | 5.19 | 2.52 | 2.99 | 1.65 | 2.20 | 0.56 | 3.99 | 2.76 | 0.62 | 1.00 |
| 1,100-4,400 | 0.53 | 5/8-18 UNF | 4.00 | 4.31 | 6.50 | 2.80 | 5.10 | 0.61 | 2.97 | 2.36 | 4.33 | 2.76 | 0.79 | 1.25 |
| 11,000 | 0.78 | 3/4-10 UNC | 5.31 | 5.63 | 8.46 | 3.19 | 6.34 | 0.79 | 3.56 | 2.78 | 5.91 | 3.54 | 1.18 | 1.57 |

** In weighing position  ** In jacked-up position for load cell shipping or removal*

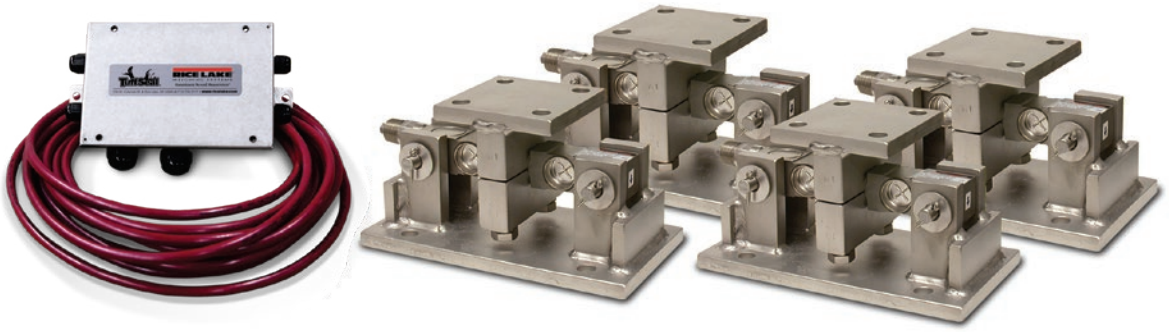
## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **OIML C3-Certified Load Cells Included** | | | |
| 5 kg | 11.0 lb | **32687** | $875.00 |
| 10 kg | 22.0 lb | **32688** | $875.00 |
| 20 kg | 44.1 lb | **32689** | $875.00 |
| 50 kg | 110.2 lb | **32690** | $875.00 |
| 100 kg | 220.5 lb | **32691** | $875.00 |
| 200 kg | 440.9 lb | **32692** | $875.00 |
| 250 kg | 551.2 lb | **32693** | $875.00 |
| 500 kg | 1,102.3 lb | **32974** | $1,065.00 |
| 1,000 kg | 2,204.6 lb | **32973** | $1,065.00 |
| 2,000 kg | 4,409.2 lb | **32972** | $1,065.00 |
| 5,000 kg | 11,023.1 lb | **32971** | $1,315.00 |
| **3-Module Kit** | | | |
| 5 kg | 11.0 lb | **32920** | $2,825.00 |
| 10 kg | 22.0 lb | **32921** | $2,825.00 |
| 20 kg | 44.1 lb | **32922** | $2,825.00 |
| 50 kg | 110.2 lb | **32923** | $2,825.00 |
| 100 kg | 220.5 lb | **32924** | $2,825.00 |
| 200 kg | 440.9 lb | **32925** | $2,825.00 |
| 250 kg | 551.2 lb | **32926** | $2,825.00 |
| 500 kg | 1,102.3 lb | **32980** | $3,380.00 |
| 1,000 kg | 2,204.6 lb | **32981** | $3,380.00 |
| 2,000 kg | 4,409.2 lb | **32982** | $3,380.00 |
| 5,000 kg | 11,023.1 lb | **32983** | $4,215.00 |
| **4-Module Kit** | | | |
| 5 kg | 11.0 lb | **32927** | $3,730.00 |
| 10 kg | 22.0 lb | **32928** | $3,730.00 |
| 20 kg | 44.1 lb | **32929** | $3,730.00 |
| 50 kg | 110.2 lb | **32930** | $3,730.00 |
| 100 kg | 220.5 lb | **32931** | $3,730.00 |
| 200 kg | 440.9 lb | **32932** | $3,730.00 |
| 250 kg | 551.2 lb | **32933** | $3,730.00 |
| 500 kg | 1,102.3 lb | **32984** | $4,450.00 |
| 1,000 kg | 2,204.6 lb | **32985** | $4,450.00 |
| 2,000 kg | 4,409.2 lb | **32986** | $4,450.00 |
| 5,000 kg | 11,023.1 lb | **32987** | $5,260.00 |

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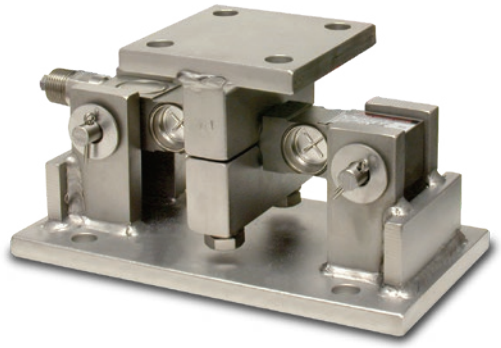
# RL1600 HE

Medium-capacity Weigh Modules



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RL1600 HE mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 HE kit is ideally suited for indoor and outdoor process control operations in the medium-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.



*Fabricated stainless steel module with RL75016WHE double-ended beam load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 HE stainless steel compression mounts
- Three or four RL75016 WHE stainless steel, hermetically sealed double-ended shear beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 1,000lb-25,000lb (453.6kg-11,339.8kg)
- All stainless steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Hermetically sealed IP66/69K protected load cells
- Double-ended shear beam design, center loaded

## Applications

- Medium-capacity tanks, bins and hoppers
- Bulk material management
- Ingredient batching, mixing and blending

## Load Cell Certifications

FM APPROVED

WATER PROOF

IP66/69K

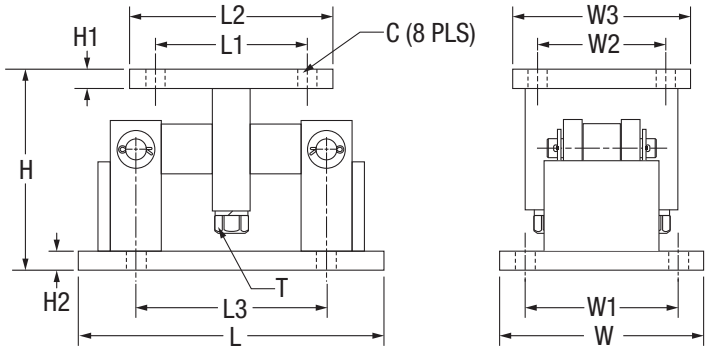




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# RL1600 HE

Medium-Capacity Weigh Modules




## Dimensions

| Rated Capacity | C | H | H1 | H2 | L | L1 | L2 | L3 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | |
| 1,000-5,000 | 0.56 | 5.00 | 0.50 | 0.50 | 9.25 | 2.75 | 4.00 | 6.25 | 1/2-13 UNC | 5.00 | 3.75 | 2.75 | 4.00 |
| 10,000-25,000 | 0.78 | 7.87 | 0.75 | 0.75 | 12.00 | 6.00 | 8.00 | 7.50 | 3/4-10 UNC | 8.00 | 6.00 | 6.00 | 8.00 |
| **kg/mm** | | | | | | | | | | | | | |
| 453.6-2,268.0 | 14.2 | 127.0 | 12.7 | 12.7 | 235.0 | 69.9 | 101.6 | 158.8 | 1/2-13 UNC | 127.0 | 95.3 | 69.9 | 101.6 |
| 4,535.9-11,339.8 | 19.8 | 199.9 | 19.1 | 19.1 | 304.8 | 152.4 | 203.2 | 190.5 | 3/4-10 UNC | 203.2 | 152.4 | 152.4 | 203.2 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **46723** | $4,100.00 |
| 1,500 lb | 680.4 kg | **119673** | $4,100.00 |
| 2,000 lb | 907.2 kg | **119675** | $4,100.00 |
| 2,500 lb | 1,134.0 kg | **46724** | $4,100.00 |
| 5,000 lb | 2,268.0 kg | **46725** | $4,100.00 |
| 10,000 lb | 4,535.9 kg | **46726** | $5,785.00 |
| 15,000 lb | 6,803.9 kg | **46727** | $5,785.00 |
| 20,000 lb | 9,071.9 kg | **84664** | $5,785.00 |
| 25,000 lb | 11,339.8 kg | **46728** | $5,785.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **46729** | $5,170.00 |
| 1,500 lb | 680.4 kg | **119674** | $5,170.00 |
| 2,000 lb | 907.2 kg | **119676** | $5,170.00 |
| 2,500 lb | 1,134.0 kg | **46730** | $5,170.00 |
| 5,000 lb | 2,268.0 kg | **46731** | $5,170.00 |
| 10,000 lb | 4,535.9 kg | **46732** | $7,685.00 |
| 15,000 lb | 6,803.9 kg | **46733** | $7,685.00 |
| 20,000 lb | 9,071.9 kg | **84665** | $7,685.00 |
| 25,000 lb | 11,339.8 kg | **46734** | $7,685.00 |
| **Single Module (Does Not Include Load Cell)** | | | |
| 1,000-5,000 lb | 453.6-2,268.0 kg | **17813** | $590.00 |
| 10,000-25,000 lb | 4,535.9-11,339.8 kg | **17815** | $1,150.00 |
| **Dummy Load Cells (Mild Steel)** | | | |
| 1,000-5,000 lb | 453.6-2,268.0 kg | **18236** | $21.00 |
| 10,000-25,000 lb | 4,535.9-11,339.8 kg | **18237** | $37.00 |

## Shims*

| | Part # | Price |
|---|---|---|
| **1,000 lb–5,000 lb** | | |
| 0.0625 | **150852** | $3.25 |
| 0.125 | **150853** | $8.50 |
| 0.250 | **150854** | $14.25 |
| **10,000 lb-25,000 lb** | | |
| 0.0625 | **150855** | $12.75 |
| 0.125 | **150856** | $20.50 |
| 0.250 | **150857** | $57.00 |
| **50,000 lb–75,000 lb** | | |
| 0.0625 | **150858** | $16.25 |
| 0.125 | **150859** | $26.25 |
| 0.250 | **150861** | $72.25 |

**Shims match the top plate*





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# RL1855 HE-HS

Medium-capacity Weigh Modules with Hermetically Sealed Load Cells



*Picture is a representation of actual product.*

The RL1855 HE-HS with module kit has all the features of the RL1855 HE kit but uses the upgraded RL32218S-HE hermetically sealed IP69K load cell.

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1855 HE stainless steel mounts
- Three or four RL32218S-HE hermetically sealed NTEP Certified load cells
- 25 ft of hostile environment EL147HE SURVIVOR load cell cable

## Standard Features:

- All stainless steel construction
- Hermetically sealed, stainless steel IP69K
- NTEP Certified load cells, 5,000 d Class III multiple load cell
- Self-checking design with lift off/tip off protection
- Two-year limited warranty

## Applications

- Medium capacity hoppers, bins and tanks
- Batching/blending

## Load Cell Certifications

FM APPROVED

NTEP

WATER PROOF

*IP69K*

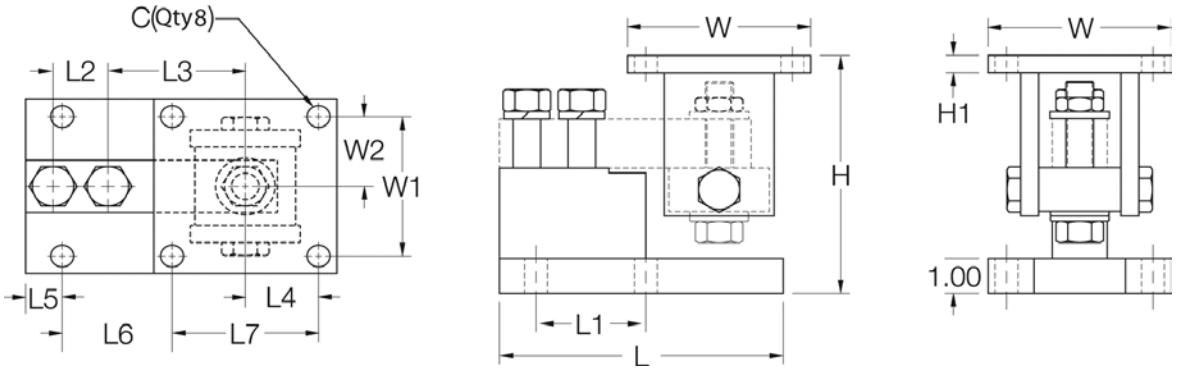




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# RL1855 HE-HS

Medium-capacity Weigh Modules with Hermetically Sealed Load Cells




## Dimensions

| Rated Capacity | C | H min/max | H1 | L | L1 | L2 | L3 | L4 | L5 | L6 | L7 | W | W1 | W2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-4,000 | 0.62 | 5.25/5.56 | 0.50 | 6.00 | 2.00 | 1.00 | 3.00 | 2.00 | 0.68 | 1.94 | 4.00 | 5.00 | 4.00 | 2.00 |
| 5,000-10,000 | 0.62 | 6.12/6.62 | 0.50 | 7.75 | 3.00 | 1.50 | 3.75 | 2.00 | 1.03 | 2.97 | 4.00 | 5.00 | 4.00 | 2.00 |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-1,814.4 | 15.8 | 133.4/141.2 | 12.7 | 152.4 | 50.8 | 25.4 | 76.2 | 50.8 | 17.3 | 49.3 | 101.6 | 127.0 | 101.6 | 50.8 |
| 2,268.0-4,535.9 | 15.8 | 155.4/168.1 | 12.7 | 196.9 | 76.2 | 38.1 | 95.3 | 50.8 | 26.2 | 75.4 | 101.6 | 127.0 | 101.6 | 50.8 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Modules (Includes Load Cell)** | | | |
| 1,000 lb | 453.6 kg | **170857** | $955.00 |
| 2,500 lb | 1,134.0 kg | **170858** | $955.00 |
| 4,000 lb | 1,814.4 kg | **170859** | $955.00 |
| 5,000 lb | 2,268.0 kg | **170860** | $1,025.00 |
| 10,000 lb | 4,535.9 kg | **170861** | $1,025.00 |
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **170862** | $2,995.00 |
| 2,500 lb | 1,134.0 kg | **170863** | $2,995.00 |
| 4,000 lb | 1,814.4 kg | **170864** | $2,995.00 |
| 5,000 lb | 2,268.0 kg | **170865** | $3,225.00 |
| 10,000 lb | 4,535.9 kg | **170866** | $3,225.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **170867** | $3,895.00 |
| 2,500 lb | 1,134.0 kg | **170868** | $3,895.00 |
| 4,000 lb | 1,814.4 kg | **170869** | $3,895.00 |
| 5,000 lb | 2,268.0 kg | **170870** | $4,250.00 |
| 10,000 lb | 4,535.9 kg | **170871** | $4,250.00 |



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# RL2100 HE

Heavy-capacity Weigh Modules



*Picture is a representation of actual product.*

Incorporating an articulating load plate, hardened load pin and double-ended beam load cell into one simple design, the RL2100HE tolerates eccentric loads and side loads of up to 100 percent of capacity. The RL2100 HE comes standard with NTEP Certified, 1:5000 division Class IIIL load cells, yielding up to 0.02 percent total error. An integral conduit adapter offers added washdown protection. These standard features give the RL2100 HE accuracy and dependability in one heavyweight package. The simple load introduction and load cell design provides consistent accuracy in washdown applications, making the RL2100 HE ideal for high-capacity hostile environments.

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal-trim junction box
- Three or four RL2100 HE stainless steel compression mounts
- Three or four RL75060S stainless steel, welded seal double-ended beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- All stainless steel construction
- Welded seal, stainless steel load cells, IP67, guaranteed waterproof
- NTEP Certified load cells, 5,000 d, Class IIIL/10,000 d, Class IIIL multiple cell
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Self-checking design with lift-off/tip-over protection
- Two-year limited warranty

## Applications

- Heavy-capacity tanks, blenders, reactors and bulk inventory management
- Petroleum refining process control
- Blending/batching

## Load Cell Certifications

FM APPROVED

NTEP

WATER PROOF

IP67

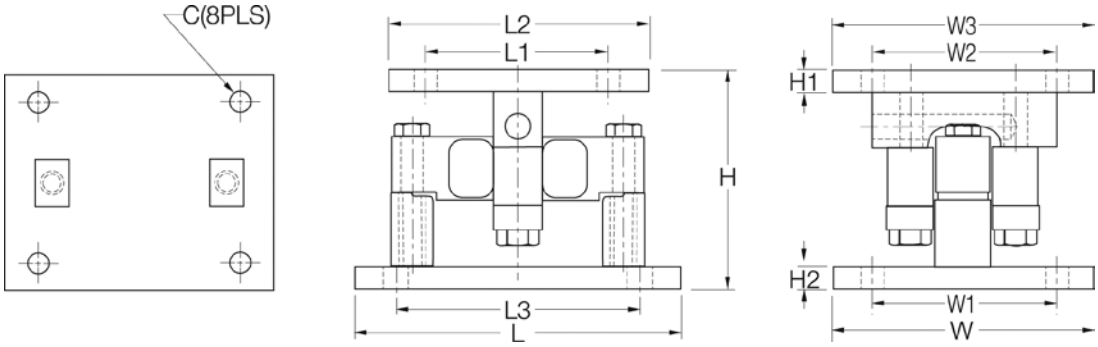




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# RL2100 HE

Heavy-capacity Weigh Modules




## Dimensions

| Rated Capacity | C | H | H1 | H2 | L | L1 | L2 | L3 | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | |
| 20,000-25,000 | 0.78 | 6.85 | 0.75 | 0.75 | 10.00 | 6.00 | 8.00 | 7.50 | 8.00 | 6.00 | 6.00 | 8.00 |
| 35,000-100,000 | 1.13 | 9.42 | 1.00 | 1.00 | 16.00 | 6.50 | 9.00 | 11.50 | 10.00 | 7.50 | 6.50 | 9.00 |
| **kg/mm** | | | | | | | | | | | | |
| 9,071.9-11,339.8 | 19.8 | 174.0 | 19.1 | 19.1 | 254.0 | 152.4 | 203.2 | 190.5 | 203.2 | 152.4 | 152.4 | 203.2 |
| 15,875.7-45,359.2 | 28.7 | 239.3 | 25.4 | 25.4 | 355.6 | 165.1 | 228.6 | 292.1 | 254.0 | 190.5 | 165.1 | 228.6 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Includes Load Cell)** | | | |
| 20,000 lb | 9,071.8 kg | **32951** | $1,575.00 |
| 25,000 lb | 11,339.8 kg | **65541** | $1,575.00 |
| 35,000 lb | 15,875.7 kg | **32952** | $2,510.00 |
| 50,000 lb | 22,679.6 kg | **32953** | $2,510.00 |
| 60,000 lb | 27,215.5 kg | **32954** | $2,510.00 |
| 75,000 lb | 34,019.4 kg | **32955** | $2,510.00 |
| 100,000 lb | 45,359.2 kg | **32956** | $4,305.00 |
| **3-Module Kit** | | | |
| 20,000 lb | 9,071.8 kg | **32970** | $4,945.00 |
| 25,000 lb | 11,339.8 kg | **65984** | $4,945.00 |
| 35,000 lb | 15,875.7 kg | **32969** | $7,780.00 |
| 50,000 lb | 22,679.6 kg | **32968** | $7,780.00 |
| 60,000 lb | 27,215.5 kg | **32967** | $7,780.00 |
| 75,000 lb | 34,019.4 kg | **32966** | $7,780.00 |
| 100,000 lb | 45,359.2 kg | **32965** | $12,820.00 |
| **4-Module Kit** | | | |
| 20,000 lb | 9,071.8 kg | **32964** | $6,520.00 |
| 25,000 lb | 11,339.8 kg | **65983** | $6,520.00 |
| 35,000 lb | 15,875.7 kg | **32963** | $9,985.00 |
| 50,000 lb | 22,679.6 kg | **32962** | $9,985.00 |
| 60,000 lb | 27,215.5 kg | **32961** | $9,985.00 |
| 75,000 lb | 34,019.4 kg | **32960** | $9,985.00 |
| 100,000 lb | 45,359.2 kg | **32959** | $17,020.00 |



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# ITCM

Isolated Tension Cell Modules



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The ITCM incorporates clevis and unique rod-end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, which are a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.



*Module with RL20000 s-beam load cell.*

*Important: Read "Load Cell Mounting Hardware Safety Guidelines"*

## Complete Kit Includes:

- Three or four ITCM assemblies with RL20000 NTEP Certified s-beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 100-20,000 lb (45.4-9,071.1 kg)
- Clevis mounts with nylon insulating washers
- 20,000 lb ITCM rod-end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies
- Zinc-plated clevis assemblies
- Excluding 20,000 lb (9071.9 kg) capacity

## Applications

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

## Load Cell Certifications



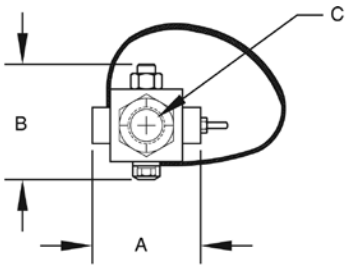


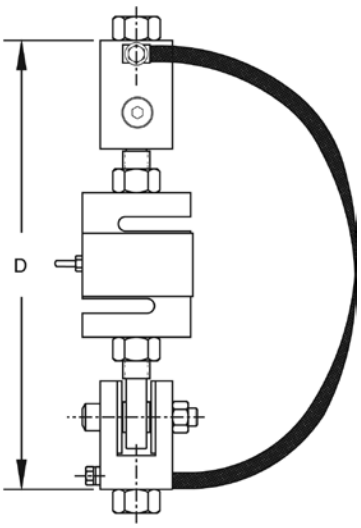
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## Load Rating Dimensions - Inches (mm)*

| Load Cell Capacity | A | B | C | D |
|---|---|---|---|---|
| **lb/in** | | | | |
| 100 | 2.00 | 1.81 | 3/8-16 UNC<br>1/2-13 UNC | 7.00 (ref) |
| 150 | 2.00 | 1.81 | 3/8-16 UNC<br>1/2-13 UNC | 7.00 (ref) |
| 200 | 2.00 | 1.81 | 3/8-16 UNC<br>1/2-13 UNC | 7.00 (ref) |
| 250 | 2.00 | 1.81 | 3/8-16 UNC<br>1/2-13 UNC | 7.00 (ref) |
| 500 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 750 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 1,000 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 1,500 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 2,000 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 2,500 | 2.68 | 2.68 | 5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 3,000 | 3.37 | 3.37 | 3/4-10 UNC | 10.50 (ref) |
| 5,000 | 3.37 | 3.37 | 3/4-10 UNC<br>1-8 UNC | 12.25 (ref) |
| 10,000 | 3.37 | 3.37 | 1-8 UNC | 12.25 (ref) |
| 15,000 | 4.00 | 4.12 | 1 1/4-7 UNC | 18.00 (ref) |
| 20,000 | 5.00 | 4.12 | 1 1/2-6 UNC | 20.00 (ref) |
| **kg/mm** | | | | |
| 45.4 | 50.8 | 46.0 | 3/8-16 UNC<br>1/2-13 UNC | 177.8 |
| 68.0 | 50.8 | 46.0 | 3/8-16 UNC<br>1/2-13 UNC | 177.8 |
| 90.7 | 50.8 | 46.0 | 3/8-16 UNC<br>1/2-13 UNC | 177.8 |
| 113.4 | 50.8 | 46.0 | 3/8-16 UNC<br>1/2-13 UNC | 177.8 |
| 226.8 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 340.2 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 453.6 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 680.4 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 907.2 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 1,134.0 | 68.1 | 68.1 | 5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 1,360.8 | 85.6 | 85.6 | 3/4-10 UNC | 266.7 |
| 2,268.0 | 85.6 | 85.6 | 3/4-10 UNC<br>1-8 UNC | 311.2 |
| 4,535.9 | 85.6 | 85.6 | 1-8 UNC | 311.2 |
| 6,803.9 | 101.6 | 104.6 | 1 1/4-7 UNC | 457.2 |
| 9,071.9 | 127.0 | 104.6 | 1 1/2-6 UNC | 508.0 |

** Load rating is per module*






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# ITCM

Isolated Tension Cell Modules

## Order Information

| Single Module | | Part # (C) | Price |
|---|---|---|---|
| 100 lb | 45.4 kg | **17851** (3/8-16 UNC)<br>**17831** (1/2-13 UNC) | $500.00<br>$500.00 |
| 150 lb | 68.0 kg | **30337** (3/8-16 UNC)<br>**30336** (1/2-13 UNC) | $500.00<br>$500.00 |
| 200 lb | 90.7 kg | **30335** (3/8-16 UNC)<br>**30338** (1/2-13 UNC) | $500.00<br>$500.00 |
| 250 lb | 113.4 kg | **17852** (3/8-16 UNC)<br>**17832** (1/2-13 UNC) | $500.00<br>$500.00 |
| 500 lb | 226.8 kg | **17853** (1/2-13 UNC)<br>**17858** (5/8-11 UNC)<br>**17833** (3/4-10 UNC) | $550.00<br>$550.00<br>$550.00 |
| 750 lb | 340.2 kg | **17854** (1/2-13 UNC)<br>**17859** (5/8-11 UNC)<br>**17834** (3/4-10 UNC) | $550.00<br>$550.00<br>$550.00 |
| 1,000 lb | 453.6 kg | **17855** (1/2-13 UNC)<br>**17860** (5/8-11 UNC)<br>**17835** (3/4-10 UNC) | $550.00<br>$550.00<br>$550.00 |
| 1,500 lb | 680.4 kg | **17856** (1/2-13 UNC)<br>**17861** (5/8-11 UNC)<br>**17836** (3/4-10 UNC) | $550.00<br>$550.00<br>$550.00 |
| 2,000 lb | 907.2 kg | **17857** (1/2-13 UNC)<br>**17862** (5/8-11 UNC)<br>**17837** (3/4-10 UNC) | $550.00<br>$550.00<br>$550.00 |
| 2,500 lb | 1,134.0 kg | **17863** (5/8-11 UNC)<br>**17838** (3/4-10 UNC) | $550.00<br>$550.00 |
| 3,000 lb | 1,360.8 kg | **30339** (3/4-10 UNC) | $575.00 |
| 5,000 lb | 2,268.0 kg | **17864** (3/4-10 UNC)<br>**17839** (1-8 UNC) | $750.00<br>$750.00 |
| 10,000 lb | 4,535.9 kg | **17840** (1-8 UNC) | $750.00 |
| 15,000 lb | 6,803.9 kg | **17960** (1 1/4-7 UNC) | $1,550.00 |
| 20,000 lb | 9,071.9 kg | **17961** (1 1/2-6 UNC) | $1,825.00 |
| **3-Module Kit** | | **Part # (C)** | **Price** |
| 100 lb | 45.4 kg | **18003** (3/8-16 UNC)<br>**18004** (1/2-13 UNC) | $1,740.00<br>$1,740.00 |
| 150 lb | 68.0 kg | **30357** (3/8-16 UNC)<br>**30358** (1/2-13 UNC) | $1,740.00<br>$1,740.00 |
| 200 lb | 90.7 kg | **30361** (3/8-16 UNC)<br>**30362** (1/2-13 UNC) | $1,740.00<br>$1,740.00 |
| 250 lb | 113.4 kg | **18005** (3/8-16 UNC)<br>**18006** (1/2-13 UNC) | $1,740.00<br>$1,740.00 |
| 500 lb | 226.8 kg | **18007** (1/2-13 UNC)<br>**18008** (5/8-11 UNC)<br>**18009** (3/4-10 UNC) | $1,865.00<br>$1,865.00<br>$1,865.00 |
| 750 lb | 340.2 kg | **18010** (1/2-13 UNC)<br>**18011** (5/8-11 UNC)<br>**18012** (3/4-10 UNC) | $1,865.00<br>$1,865.00<br>$1,865.00 |
| 1,000 lb | 453.6 kg | **18013** (1/2-13 UNC)<br>**18014** (5/8-11 UNC)<br>**18015** (3/4-10 UNC) | $1,865.00<br>$1,865.00<br>$1,865.00 |
| 1,500 lb | 680.4 kg | **18016** (1/2-13 UNC)<br>**18017** (5/8-11 UNC)<br>**18018** (3/4-10 UNC) | $1,865.00<br>$1,865.00<br>$1,865.00 |
| 2,000 lb | 907.2 kg | **18019** (1/2-13 UNC)<br>**18020** (5/8-11 UNC)<br>**18021** (3/4-10 UNC) | $1,865.00<br>$1,865.00<br>$1,865.00 |
| 2,500 lb | 1,134.0 kg | **18022** (5/8-11 UNC<br>**18023** (3/4-10 UNC) | $1,865.00<br>$1,865.00 |
| 3,000 lb | 1,360.8 kg | **30365** (3/4-10 UNC) | $1,975.00 |
| 5,000 lb | 2,268.0 kg | **18024** (3/4-10 UNC)<br>**18025** (1-8 UNC) | $2,465.00<br>$2,465.00 |
| 10,000 lb | 4,535.9 kg | **18026** (1-8 UNC) | $2,465.00 |
| 15,000 lb | 6,803.9 kg | **30353** (1 1/4-7 UNC) | $4,885.00 |
| 20,000 lb | 9,071.9 kg | **30355** (1 1/2-6 UNC) | $5,685.00 |

| 4-Module Kit | | Part # (C) | Price |
|---|---|---|---|
| 100 lb | 45.4 kg | **18027** (3/8-16 UNC)<br>**18028** (1/2-13 UNC) | $2,240.00<br>$2,240.00 |
| 150 lb | 68.0 kg | **30359** (3/8-16 UNC)<br>**30360** (1/2-13 UNC) | $2,240.00<br>$2,240.00 |
| 200 lb | 90.7 kg | **30363** (3/8-16 UNC)<br>**30364** (1/2-13 UNC) | $2,240.00<br>$2,240.00 |
| 250 lb | 113.4 kg | **18029** (3/8-16 UNC)<br>**18030** (1/2-13 UNC) | $2,240.00<br>$2,240.00 |
| 500 lb | 226.8 kg | **18031** (1/2-13 UNC)<br>**18032** (5/8-11 UNC)<br>**18033** (3/4-10 UNC) | $2,410.00<br>$2,410.00<br>$2,410.00 |
| 750 lb | 340.2 kg | **18034** (1/2-13 UNC)<br>**18035** (5/8-11 UNC)<br>**18036** (3/4-10 UNC) | $2,410.00<br>$2,410.00<br>$2,410.00 |
| 1,000 lb | 453.6 kg | **18037** (1/2-13 UNC)<br>**18038** (5/8-11 UNC)<br>**18039** (3/4-10 UNC) | $2,410.00<br>$2,410.00<br>$2,410.00 |
| 1,500 lb | 680.4 kg | **18040** (1/2-13 UNC)<br>**18041** (5/8-11 UNC)<br>**18042** (3/4-10 UNC) | $2,410.00<br>$2,410.00<br>$2,410.00 |
| 2,000 lb | 907.2 kg | **18043** (1/2-13 UNC)<br>**18044** (5/8-11 UNC)<br>**18045** (3/4-10 UNC) | $2,410.00<br>$2,410.00<br>$2,410.00 |
| 2,500 lb | 1,134.0 kg | **18046** (5/8-11 UNC<br>**18047** (3/4-10 UNC) | $2,410.00<br>$2,410.00 |
| 3,000 lb | 1,360.8 kg | **30366** (3/4-10 UNC) | $2,510.00 |
| 5,000 lb | 2,268.0 kg | **18048** (3/4-10 UNC)<br>**18049** (1-8 UNC) | $3,210.00<br>$3,210.00 |
| 10,000 lb | 4,535.9 kg | **18050** (1-8 UNC) | $3,210.00 |
| 15,000 lb | 6,803.9 kg | **30354** (1 1/4-7 UNC) | $6,410.00 |
| 20,000 lb | 9,071.9 kg | **30356** (1 1/2-6 UNC) | $7,510.00 |





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# ITCM SS

Stainless Steel Isolated Tension Cell Modules



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The ITCM SS incorporates clevis and unique rod-end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, which are a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.



*Module with RL20000ST s-beam load cell.*

*Important: Read "Load Cell Mounting Hardware Safety Guidelines"*

## Complete Kit Includes:

- Three or four ITCM assemblies with RL20000 ST NTEP Certified s-beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 100-5000 lb (45.4-2,268.0 kg)
- Clevis mounts with nylon insulating washers
- PTFE-lined rod-end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies

## Applications

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

## Load Cell Certifications

NTEP FM APPROVED





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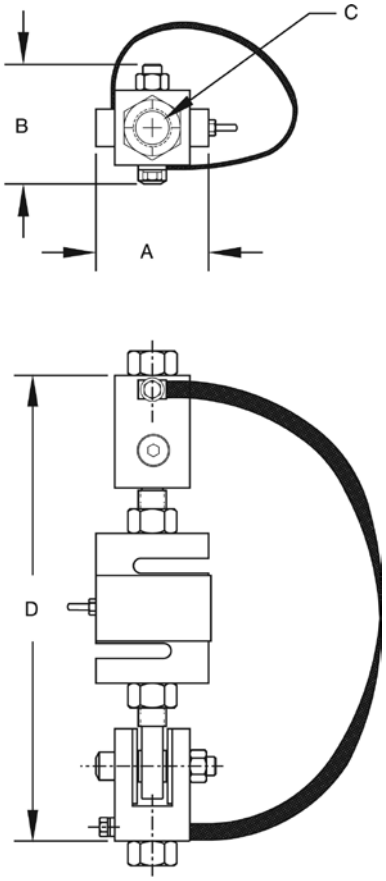
# ITCM SS

Stainless Steel Isolated Tension Cell Modules

## Load Rating Dimensions - Inches (mm)*

| Load Cell Capacity | A | B | C | D |
|---|---|---|---|---|
| **lb/in** | | | | |
| 100 | 2.00 | 1.81 | 3/8-16 UNC<br>1/2-13 UNC | 7.00 (ref) |
| 250 | 2.00 | 1.81 | 3/8-16 UNC<br>1/2-13 UNC | 7.00 (ref) |
| 500 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC | 9.50 (ref) |
| 750 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC | 9.50 (ref) |
| 1,000 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC | 9.50 (ref) |
| 2,500 | 2.68 | 2.68 | 5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 3,000 | 3.37 | 3.37 | 3/4-10 UNC | 10.75 (ref) |
| 5,000 | 3.37 | 3.37 | 3/4-10 UNC | 12.00 (ref) |
| **kg/mm** | | | | |
| 45.4 | 50.8 | 46.0 | 3/8-16 UNC<br>1/2-13 UNC | 177.8 |
| 113.4 | 50.8 | 46.0 | 3/8-16 UNC<br>1/2-13 UNC | 177.8 |
| 226.8 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC | 241.3 |
| 340.2 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC | 241.3 |
| 453.6 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC | 241.3 |
| 1,134.0 | 68.1 | 68.1 | 5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 1,360.8 | 85.6 | 85.6 | 3/4-10 UNC | 273.0 |
| 2,268.0 | 85.6 | 85.6 | 3/4-10 UNC | 304.8 |

**Load rating is per module*




## Order Information

| Single Module | | Part # (C) | Price |
|---|---|---|---|
| 100 lb | 45.4 kg | **46765** (3/8-16 UNC)<br>**46766** (1/2-13 UNC) | $785.00<br>$785.00 |
| 250 lb | 113.4 kg | **46767** (3/8-16 UNC)<br>**46768** (1/2-13 UNC) | $785.00<br>$785.00 |
| 500 lb | 226.8 kg | **46769** (1/2-13 UNC)<br>**46770** (5/8-11 UNC) | $785.00<br>$785.00 |
| 750 lb | 340.2 kg | **46771** (1/2-13 UNC)<br>**46772** (5/8-11 UNC) | $785.00<br>$785.00 |
| 1,000 lb | 453.6 kg | **46773** (1/2-13 UNC)<br>**46774** (5/8-11 UNC) | $785.00<br>$785.00 |
| 2,500 lb | 1,134.0 kg | **46775** (5/8-11 UNC)<br>**46776** (3/4-10 UNC) | $785.00<br>$785.00 |
| 3,000 lb | 1,360.8 kg | **46777** (3/4-10 UNC) | $840.00 |
| 5,000 lb | 2,268.0 kg | **46778** (3/4-10 UNC) | $1,460.00 |

| 3-Module Kit | | Part # (C) | Price |
|---|---|---|---|
| 100 lb | 45.4 kg | **46735** (3/8-16 UNC)<br>**46736** (1/2-13 UNC) | $2,500.00<br>$2,500.00 |
| 250 lb | 113.4 kg | **46737** (3/8-16 UNC)<br>**46738** (1/2-13 UNC) | $2,500.00<br>$2,500.00 |
| 500 lb | 226.8 kg | **46739** (1/2-13 UNC)<br>**46740** (5/8-11 UNC) | $2,500.00<br>$2,500.00 |
| 750 lb | 340.2 kg | **46741** (1/2-13 UNC)<br>**46742** (5/8-11 UNC) | $2,500.00<br>$2,500.00 |
| 1,000 lb | 453.6 kg | **46743** (1/2-13 UNC)<br>**46744** (5/8-11 UNC) | $2,500.00<br>$2,500.00 |
| 2,500 lb | 1,134.0 kg | **46745** (5/8-11 UNC)<br>**46746** (3/4-10 UNC) | $2,500.00<br>$2,500.00 |
| 3,000 lb | 1,360.8 kg | **46747** (3/4-10 UNC) | $2,755.00 |
| 5,000 lb | 2,268.0 kg | **46748** (3/4-10 UNC) | $4,550.00 |

| 4-Module Kit | | Part # (C) | Price |
|---|---|---|---|
| 100 lb | 45.4 kg | **46751** (3/8-16 UNC)<br>**46752** (1/2-13 UNC) | $3,200.00<br>$3,200.00 |
| 250 lb | 113.4 kg | **46753** (3/8-16 UNC)<br>**46754** (1/2-13 UNC) | $3,200.00<br>$3,200.00 |
| 500 lb | 226.8 kg | **46755** (1/2-13 UNC)<br>**46756** (5/8-11 UNC) | $3,200.00<br>$3,200.00 |
| 750 lb | 340.2 kg | **46757** (1/2-13 UNC)<br>**46758** (5/8-11 UNC) | $3,200.00<br>$3,200.00 |
| 1,000 lb | 453.6 kg | **46759** (1/2-13 UNC)<br>**46760** (5/8-11 UNC) | $3,200.00<br>$3,200.00 |
| 2,500 lb | 1,134.0 kg | **46761** (5/8-11 UNC)<br>**46762** (3/4-10 UNC) | $3,200.00<br>$3,200.00 |
| 3,000 lb | 1,360.8 kg | **46763** (3/4-10 UNC) | $3,450.00 |
| 5,000 lb | 2,268.0 kg | **46764** (3/4-10 UNC) | $5,895.00 |



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# ITCM HE

Stainless Steel, Welded Seal, NTEP Certified Isolated Tension Cell Modules



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The ITCM HE incorporates clevis and unique rod-end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, which are a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.




*Module with RL20001 HE s-beam load cell.*

*Important: Read "Load Cell Mounting Hardware Safety Guidelines"*

## Complete Kit Includes:

- Three or four ITCM assemblies with RL20001HE stainless steel, welded seal
- NTEP Certified s-beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 500-5,000 lb (226.8-2,268.0 kg)
- Clevis mounts with nylon insulating washers
- PTFE-lined rod-end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load-cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies

## Applications

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

## Load Cell Certifications

FM APPROVED





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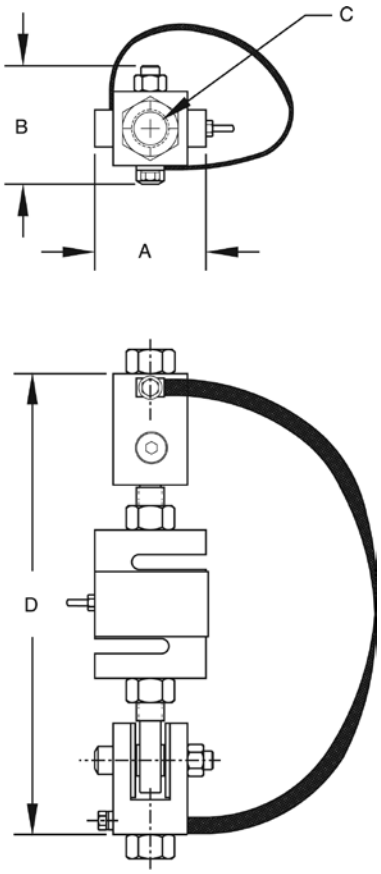
# ITCM HE

Stainless Steel, Welded Seal, NTEP Certified Isolated Tension Cell Modules

## Load Rating Dimensions - Inches (mm)*

| Load Cell Capacity | A | B | C | D |
|---|---|---|---|---|
| **lb/in** | | | | |
| 500 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 750 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 1,000 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 1,500 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 2,000 | 2.68 | 2.68 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 2,500 | 2.68 | 2.68 | 5/8-11 UNC<br>3/4-10 UNC | 9.50 (ref) |
| 3,000 | 3.37 | 3.37 | 3/4-10 UNC | 10.00 (ref) |
| 5,000 | 3.37 | 3.37 | 3/4-10 UNC | 12.62 (ref) |
| **kg/mm** | | | | |
| 226.8 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 340.2 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 453.6 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 680.4 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 907.2 | 68.1 | 68.1 | 1/2-13 UNC<br>5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 1,134.0 | 68.1 | 68.1 | 5/8-11 UNC<br>3/4-10 UNC | 241.3 |
| 1,360.8 | 85.6 | 85.6 | 3/4-10 UNC | 254.0 |
| 2,268.0 | 85.6 | 85.6e | 3/4-10 UNC | 320.5 |

** Load rating is per module*




## Order Information

| Single Module | | Part # (C) | Price |
|---|---|---|---|
| 500 lb | 226.8 kg | **46599** (1/2-13 UNC) | $1,435.00 |
| | | **46600** (5/8-11 UNC) | $1,435.00 |
| | | **46601** (3/4-10 UNC) | $1,435.00 |
| 750 lb | 340.2 kg | **46602** (1/2-13 UNC) | $1,435.00 |
| | | **46603** (5/8-11 UNC) | $1,435.00 |
| | | **46604** (3/4-10 UNC) | $1,435.00 |
| 1,000 lb | 453.6 kg | **46605** (1/2-13 UNC) | $1,435.00 |
| | | **46606** (5/8-11 UNC) | $1,435.00 |
| | | **46607** (3/4-10 UNC) | $1,435.00 |
| 1,500 lb | 680.4 kg | **46608** (1/2-13 UNC) | $1,435.00 |
| | | **46609** (5/8-11 UNC) | $1,435.00 |
| | | **46610** (3/4-10 UNC) | $1,435.00 |
| 2,000 lb | 907.2 kg | **46611** (1/2-13 UNC) | $1,435.00 |
| | | **46612** (5/8-11 UNC) | $1,435.00 |
| | | **46613** (3/4-10 UNC) | $1,435.00 |
| 2,500 lb | 1,134.0 kg | **46614** (5/8-11 UNC) | $1,435.00 |
| | | **46615** (3/4-10 UNC) | $1,435.00 |
| 3,000 lb | 1,360.8 kg | **46616** (3/4-10 UNC) | $1,435.00 |
| 5,000 lb | 2,268.0 kg | **46617** (3/4-10 UNC) | $2,135.00 |

| 3-Module Kit | | Part # (C) | Price |
|---|---|---|---|
| 500 lb | 226.8 kg | **46561** (1/2-13 UNC) | $4,200.00 |
| | | **46562** (5/8-11 UNC) | $4,200.00 |
| | | **46563** (3/4-10 UNC) | $4,200.00 |
| 750 lb | 340.2 kg | **46564** (1/2-13 UNC) | $4,200.00 |
| | | **46565** (5/8-11 UNC) | $4,200.00 |
| | | **46566** (3/4-10 UNC) | $4,200.00 |
| 1,000 lb | 453.6 kg | **46567** (1/2-13 UNC) | $4,200.00 |
| | | **46568** (5/8-11 UNC) | $4,200.00 |
| | | **46569** (3/4-10 UNC) | $4,200.00 |
| 1,500 lb | 680.4 kg | **46570** (1/2-13 UNC) | $4,200.00 |
| | | **46571** (5/8-11 UNC) | $4,200.00 |
| | | **46572** (3/4-10 UNC) | $4,200.00 |
| 2,000 lb | 907.2 kg | **46573** (1/2-13 UNC) | $4,200.00 |
| | | **46574** (5/8-11 UNC) | $4,200.00 |
| | | **46575** (3/4-10 UNC) | $4,200.00 |
| 2,500 lb | 1,134.0 kg | **46576** (5/8-11 UNC) | $4,200.00 |
| | | **46577** (3/4-10 UNC) | $4,200.00 |
| 3,000 lb | 1,360.8 kg | **46578** (3/4-10 UNC) | $4,200.00 |
| 5,000 lb | 2,268.0 kg | **46579** (3/4-10 UNC) | $6,295.00 |

| 4-Module Kit | | Part # (C) | Price |
|---|---|---|---|
| 500 lb | 226.8 kg | **46580** (1/2-13 UNC) | $5,600.00 |
| | | **46581** (5/8-11 UNC) | $5,600.00 |
| | | **46582** (3/4-10 UNC) | $5,600.00 |
| 750 lb | 340.2 kg | **46583** (1/2-13 UNC) | $5,600.00 |
| | | **46584** (5/8-11 UNC) | $5,600.00 |
| | | **46585** (3/4-10 UNC) | $5,600.00 |
| 1,000 lb | 453.6 kg | **46586** (1/2-13 UNC) | $5,600.00 |
| | | **46587** (5/8-11 UNC) | $5,600.00 |
| | | **46588** (3/4-10 UNC) | $5,600.00 |
| 1,500 lb | 680.4 kg | **46589** (1/2-13 UNC) | $5,600.00 |
| | | **46590** (5/8-11 UNC) | $5,600.00 |
| | | **46591** (3/4-10 UNC) | $5,600.00 |
| 2,000 lb | 907.2 kg | **46592** (1/2-13 UNC) | $5,600.00 |
| | | **46593** (5/8-11 UNC) | $5,600.00 |
| | | **46594** (3/4-10 UNC) | $5,600.00 |
| 2,500 lb | 1,134.0 kg | **46595** (5/8-11 UNC) | $5,600.00 |
| | | **46596** (3/4-10 UNC) | $5,600.00 |
| 3,000 lb | 1,360.8 kg | **46597** (3/4-10 UNC) | $5,600.00 |
| 5,000 lb | 2,268.0 kg | **46598** (3/4-10 UNC) | $8,350.00 |



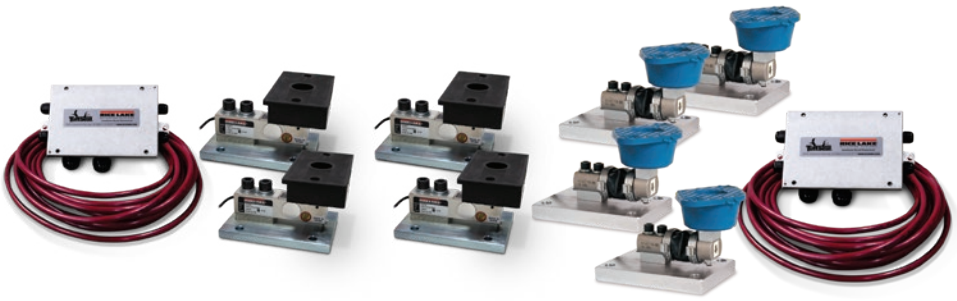
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# RL50210TA

Mini Tank Weighing Module



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RL50210TA weigh module kit provides a cost-effective alternative for your customers' weighing needs. A variety of features makes this kit easy to install and an exceptional choice for various indoor weighing applications where checking requirements are low. Environmentally protected load cells, neoprene isolation/compression mounts and other Rice Lake Weighing Systems components are the keys to this module's outstanding performance.



*NTEP Certified 1,000 lb mild steel load cell shown.*



*RL50210TA mild steel (50 lb-250 lb)*

## Complete Kit Includes:

- Three or four RL50210 cantilever beam load cells (50 lb - 250 lb mild steel)
- Three or four RL30000 single-ended beam load cells (500 lb mild steel)
- Three or four RL32018 single-ended beam load cells (1,000 lb - 2,500 lb mild steel)
- Three or four RL52019SS cantilever beam load cells (50 lb - 250 lb stainless steel)
- Three or four RL39123 single-ended beam load cells (500 lb stainless steel)
- Three or four RL32018S single-ended beam load cells (1,000 lb - 2,500 lb stainless steel)
- Three or four neoprene isolation/compression mounts
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- NTEP Certified load cells
- Zinc plated Mild steel or Stainless Steel assemblies
- Weighing ranges from 50 lb to 2,500 lb per module
- Neoprene isolation mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop provides durability

## Applications

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may be a problem

## Optional Features

- Stainless steel modules available in 500 lb (226.8 kg) capacities with RL39123 stainless steel load cells,
- 65059 kits available with VPG Sensortronics 60040 load cells, capacities: 50 lb-250 lb (22.7 kg-113.4 kg) or 65023 load cells, capacity: 500 lb (226.8 kg)

## Load Cell Certifications

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NTEP





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# RL50210TA

Mini Tank Weighing Module

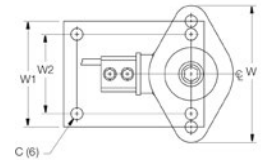
## Dimensions

| Rated Capacity | C | C1 | H | H1 | L | L1 | L2 | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 50-250 | 0.34 | — | 3.13 | 0.50 | 4.00 | 3.25 | 2.38 | 3.88 | 3.00 | 2.25 | — |
| 500 | 0.44 | 0.56 | 3.88 | 0.50 | 6.00 | 4.00 | 3.38 | 5.50 | 4.00 | 3.00 | 4.13 |
| 1,000 | 0.44 | — | 4.00 | 0.50 | 6.00 | 4.00 | 3.00 | 5.13 | 4.00 | 3.00 | 4.13 |
| 2,000-2,500 | 0.44 | 0.56 | 4.00 | 0.50 | 6.00 | 4.00 | 4.62 | 6.25 | 4.00 | 3.00 | 5.00 |
| **kg/mm** | | | | | | | | | | | |
| 22.7-113.4 | 8.6 | — | 79.5 | 12.7 | 101.6 | 82.6 | 60.5 | 98.6 | 76.2 | 57.2 | — |
| 226.8 | 11.2 | 14.2 | 98.6 | 12.7 | 152.4 | 101.6 | 85.9 | 139.7 | 101.6 | 76.2 | 104.9 |
| 453.6 | 11.2 | — | 101.6 | 12.7 | 152.4 | 101.6 | 76.2 | 130.3 | 101.6 | 76.2 | 104.9 |
| 907.2-1,134.0 | 11.2 | 14.2 | 101.6 | 12.7 | 152.4 | 101.6 | 117.3 | 158.8 | 101.6 | 76.2 | 127.0 |

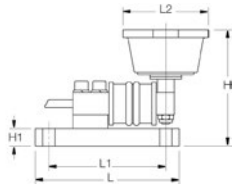
## Order Information

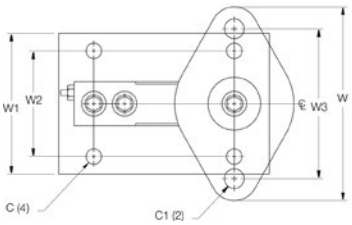
| Load Rating (Per Module)* | | Part# | Price |
|---|---|---|---|
| **Mild Steel Single Module (Includes Load Cell)** | | | |
| 50 lb | 22.7 kg | **17844** | $415.00 |
| 100 lb | 45.4 kg | **17845** | $415.00 |
| 150 lb | 68.0 kg | **17846** | $415.00 |
| 250 lb | 113.4 kg | **17847** | $415.00 |
| 500 lb | 226.8 kg | **17848** | $550.00 |
| 1,000 lb | 453.6 kg | **17849** | $550.00 |
| 2,000 lb | 907.2 kg | **17948** | $550.00 |
| 2,500 lb | 1,134.0 kg | **17949** | $550.00 |
| **Mild Steel 3-Module Kit** | | | |
| 50 lb | 22.7 kg | **18051** | $1,450.00 |
| 100 lb | 45.4 kg | **18052** | $1,450.00 |
| 150 lb | 68.0 kg | **18053** | $1,450.00 |
| 250 lb | 113.4 kg | **18054** | $1,450.00 |
| 500 lb | 226.8 kg | **18055** | $1,875.00 |
| 1,000 lb | 453.6 kg | **18056** | $1,875.00 |
| 2,000 lb | 907.2 kg | **30398** | $1,875.00 |
| 2,500 lb | 1,134.0 kg | **30396** | $1,875.00 |
| **Mild Steel 4-Module Kit** | | | |
| 50 lb | 22.7 kg | **18057** | $1,865.00 |
| 100 lb | 45.4 kg | **18058** | $1,865.00 |
| 150 lb | 68.0 kg | **18059** | $1,865.00 |
| 250 lb | 113.4 kg | **18060** | $1,865.00 |
| 500 lb | 226.8 kg | **18061** | $2,375.00 |
| 1,000 lb | 453.6 kg | **18062** | $2,400.00 |
| 2,000 lb | 907.2 kg | **30397** | $2,400.00 |
| 2,500 lb | 1,134.0 kg | **30395** | $2,400.00 |
| **Stainless Steel Single Module (Includes Load Cell)** | | | |
| 500 lb | 226.8 kg | **17954** | $640.00 |
| 1,000 lb | 453.6 kg | **17955** | $640.00 |
| 2,000 lb | 907.2 kg | **17956** | $640.00 |
| 2,500 lb | 1,134.0 kg | **17957** | $640.00 |
| **Stainless Steel 3-Module Kit** | | | |
| 500 lb | 226.8 kg | **30394** | $2,135.00 |
| 1,000 lb | 453.6 kg | **30404** | $2,020.00 |
| 2,000 lb | 907.2 kg | **30402** | $2,135.00 |
| 2,500 lb | 1,134.0 kg | **30400** | $2,135.00 |
| **Stainless Steel 4-Module Kit** | | | |
| 500 lb | 226.8 kg | **30393** | $2,795.00 |
| 1,000 lb | 453.6 kg | **30403** | $2,795.00 |
| 2,000 lb | 907.2 kg | **30401** | $2,795.00 |
| 2,500 lb | 1,134.0 kg | **30399** | $2,795.00 |

** Load rating is per module*

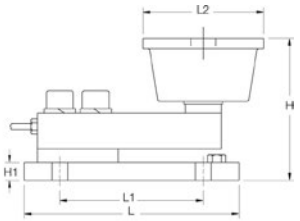


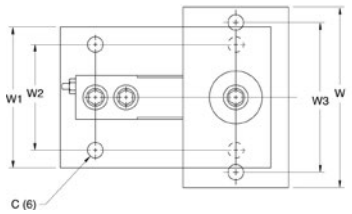

*50-250 lb (22.7-113.4 kg)*



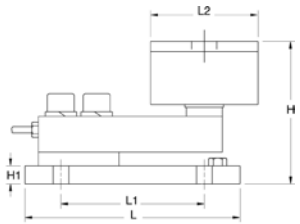



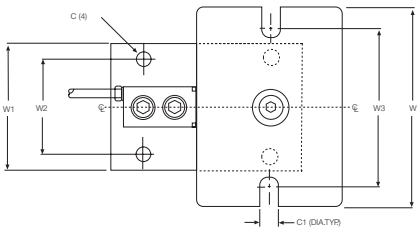

*500 lb (226.8 kg)*



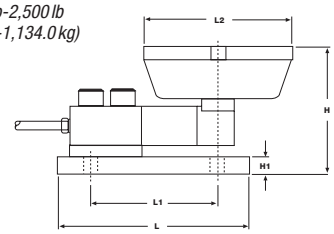




*1,000 lb (453.6 kg)*




*2,000 lb-2,500 lb (907.2 kg-1,134.0 kg)*





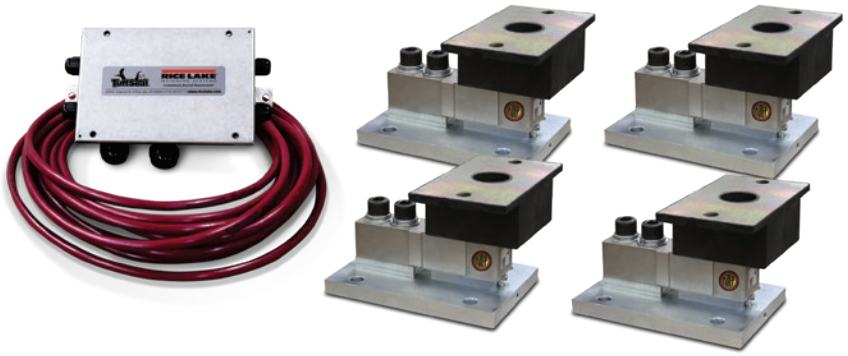

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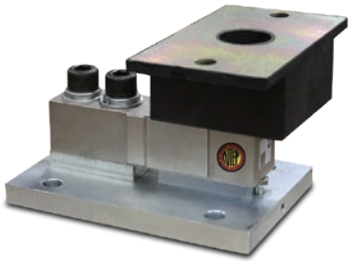
# 65059

Mini Tank Weighing Module, VPG Sensortronics



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The 65059 weigh module kit provides a cost-effective alternative for your customers' low-range weighing needs. A variety of features makes this kit easy to install and an exceptional choice for various indoor weighing applications where checking requirements are low. Environmentally protected load cells, neoprene isolation/compression mounts and other Rice Lake Weighing Systems components are the keys to this module's outstanding performance.



*Module with VPG Sensortronics 65023 single-ended shear beam load cell; capacities (per module): NTEP Certified 1,000 lb (453.6 kg) load cell shown.*



*65059 mild steel (50 lb-250 lb)*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four 60050 cantilever beam load cells (50 lb - 250 lb mild steel models)
- Three or four 65023-500-0107 single-ended beam load cells (500 lb mild steel models)
- Three or four 65023A1K-5107 single-ended beam load cells (1,000 lb - 2,500 lb mild steel models)
- Three or four 65023-500-0113 single-ended beam load cells (500 lb stainless steel model)
- Three or four 65023S1K-5113 single-ended beam load cells (1,000 lb - 2,500 lb stainless steel models)
- Three or four neoprene isolation/compression mounts
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Zinc plated, mild steel modules
- Lower weighing ranges from 50 lb - 500 lb per module
- Environmentally protected load cells
- Neoprene isolation/compression mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop for 500 lb modules provides durability

## Applications

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may be a problem

## Optional Features

- Stainless steel modules available in 500 lb (226.8 kg) capacities with VPG Sensortronics® 65023 SS load cells
- 65059 kits available with VPG Sensortronics 60040 load cells, capacities: 50 lb-250 lb (22.7 kg-113.4 kg) or 65023 load cells, capacity: 500 lb (226.8 kg)

## Load Cell Certifications

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# 65059

Mini Tank Weighing Module, VPG Sensortronics

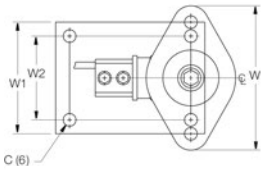
## Dimensions

| Rated Capacity | C | C1 | H | H1 | L | L1 | L2 | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 50-250 | 0.34 | — | 3.13 | 0.50 | 4.00 | 3.25 | 2.38 | 3.88 | 3.00 | 2.25 | — |
| 500 | 0.44 | 0.56 | 3.88 | 0.50 | 6.00 | 4.00 | 3.38 | 5.50 | 4.00 | 3.00 | 4.13 |
| 1,000 | 0.44 | — | 4.00 | 0.50 | 6.00 | 4.00 | 3.00 | 5.13 | 4.00 | 3.00 | 4.13 |
| 2,000-2,500 | 0.44 | 0.56 | 4.00 | 0.50 | 6.00 | 4.00 | 4.62 | 6.25 | 4.00 | 3.00 | 5.00 |
| **kg/mm** | | | | | | | | | | | |
| 22.7-113.4 | 8.6 | — | 79.5 | 12.7 | 101.6 | 82.6 | 60.5 | 98.6 | 76.2 | 57.2 | — |
| 226.8 | 11.2 | 14.2 | 98.6 | 12.7 | 152.4 | 101.6 | 85.9 | 139.7 | 101.6 | 76.2 | 104.9 |
| 453.6 | 11.2 | — | 101.6 | 12.7 | 152.4 | 101.6 | 76.2 | 130.3 | 101.6 | 76.2 | 104.9 |
| 907.2-1,134.0 | 11.2 | 14.2 | 101.6 | 12.7 | 152.4 | 101.6 | 117.3 | 158.8 | 101.6 | 76.2 | 127.0 |

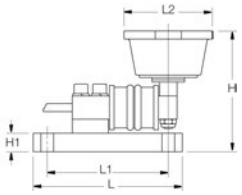
## Order Information

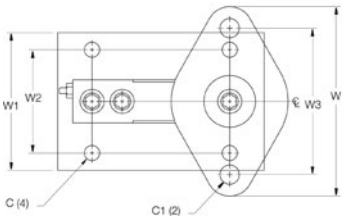
| Load Rating (Per Module)* | | Part# | Price |
|---|---|---|---|
| **Mild Steel Single Module (Includes Load Cell)** | | | |
| 50 lb | 22.7 kg | **17825** | $415.00 |
| 100 lb | 45.4 kg | **17826** | $415.00 |
| 150 lb | 68.0 kg | **17827** | $415.00 |
| 250 lb | 113.4 kg | **17828** | $415.00 |
| 500 lb | 226.8 kg | **17829** | $550.00 |
| 1,000 lb | 453.6 kg | **17830** | $550.00 |
| 2,000 lb | 907.2 kg | **17946** | $550.00 |
| 2,500 lb | 1,134.0 kg | **17947** | $550.00 |
| **Mild Steel 3-Module Kit** | | | |
| 50 lb | 22.7 kg | **18063** | $1,450.00 |
| 100 lb | 45.4 kg | **18064** | $1,450.00 |
| 150 lb | 68.0 kg | **18065** | $1,450.00 |
| 250 lb | 113.4 kg | **18066** | $1,450.00 |
| 500 lb | 226.8 kg | **18067** | $1,875.00 |
| 1,000 lb | 453.6 kg | **18068** | $1,875.00 |
| 2,000 lb | 907.2 kg | **30413** | $1,875.00 |
| 2,500 lb | 1,134.0 kg | **30412** | $1,875.00 |
| **Mild Steel 4-Module Kit** | | | |
| 50 lb | 22.7 kg | **18069** | $1,865.00 |
| 100 lb | 45.4 kg | **18070** | $1,865.00 |
| 150 lb | 68.0 kg | **18071** | $1,865.00 |
| 250 lb | 113.4 kg | **18072** | $1,865.00 |
| 500 lb | 226.8 kg | **18073** | $2,375.00 |
| 1,000 lb | 453.6 kg | **18074** | $2,400.00 |
| 2,000 lb | 907.2 kg | **30414** | $2,400.00 |
| 2,500 lb | 1,134.0 kg | **30411** | $2,400.00 |
| **Stainless Steel Single Module (Includes Load Cell)** | | | |
| 500 lb | 226.8 kg | **17950** | $640.00 |
| 1,000 lb | 453.6 kg | **17951** | $640.00 |
| 2,000 lb | 907.2 kg | **17952** | $640.00 |
| 2,500 lb | 1,134.0 kg | **17953** | $640.00 |
| **Stainless Steel 3-Module Kit** | | | |
| 500 lb | 226.8 kg | **30392** | $2,135.00 |
| 1,000 lb | 453.6 kg | **30410** | $2,135.00 |
| 2,000 lb | 907.2 kg | **30408** | $2,135.00 |
| 2,500 lb | 1,134.0 kg | **30406** | $2,135.00 |
| **Stainless Steel 4-Module Kit** | | | |
| 500 lb | 226.8 kg | **30391** | $2,795.00 |
| 1,000 lb | 453.6 kg | **30409** | $2,795.00 |
| 2,000 lb | 907.2 kg | **30407** | $2,795.00 |
| 2,500 lb | 1,134.0 kg | **30405** | $2,795.00 |

** Load rating is per module*

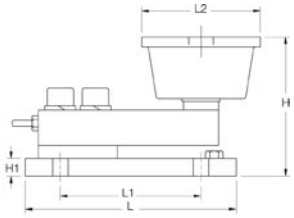


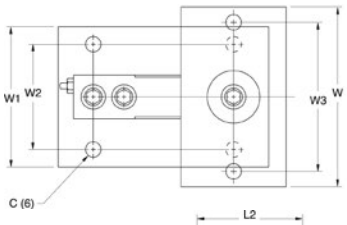

*50-250 lb (22.7-113.4 kg)*



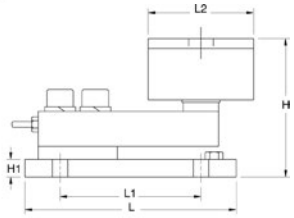



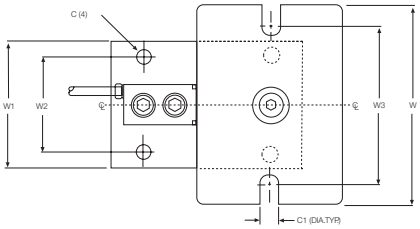

*500 lb (226.8 kg)*



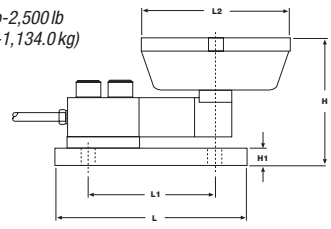




*1,000 lb (453.6 kg)*




*2,000 lb-2,500 lb (907.2 kg-1,134.0 kg)*






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# RL50219SS-TA

Mini Tank Weighing Module, Stainless Steel



*Picture is a representation of actual product.*

The RL50219SS-TA weigh module kit provides a cost-effective alternative for your customers' low-range weighing needs. A variety of features makes this kit easy to install and an exceptional choice for various indoor weighing applications where checking requirements are low. Environmentally protected load cells, neoprene isolation/compression mounts and other Rice Lake Weighing Systems components are the keys to this module's outstanding performance.




*RL50219SS-TA stainless (50 lb-250 lb)*

## Complete Kit Includes

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL50219SS cantilever beam load cells (50-250 lb models)
- Three or four stainless steel single-ended beam load cells (500 lb models)
- Three or four neoprene isolation/compression mounts
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features

- Stainless steel modules
- Lower weighing ranges from 50-500 lb (22.7-226.8 kg) per module
- Environmentally protected load cells
- Neoprene isolation/compression mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop for 500 lb (226.8 kg) modules provides durability

## Applications

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may be a problem





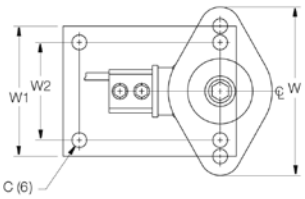
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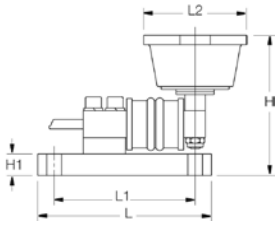
# RL50219SS-TA

Mini Tank Weighing Module, Stainless Steel

## Dimensions

| Rated Capacity | C | C1 | H | H1 | L | L1 | L2 | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 50-250 | 0.34 | — | 3.13 | 0.50 | 4.00 | 3.25 | 2.38 | 3.88 | 3.00 | 2.25 | — |
| 500 | 0.44 | 0.56 | 3.88 | 0.50 | 6.00 | 4.00 | 3.38 | 5.50 | 4.00 | 3.00 | 4.13 |
| **kg/mm** | | | | | | | | | | | |
| 22.7-113.4 | 8.6 | — | 79.5 | 12.7 | 101.6 | 82.6 | 60.5 | 98.6 | 76.2 | 57.2 | — |
| 226.8 | 11.2 | 14.2 | 98.6 | 12.7 | 152.4 | 101.6 | 85.9 | 139.7 | 101.6 | 76.2 | 104.9 |

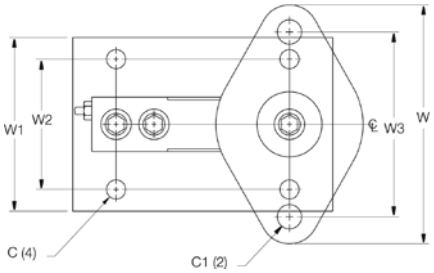


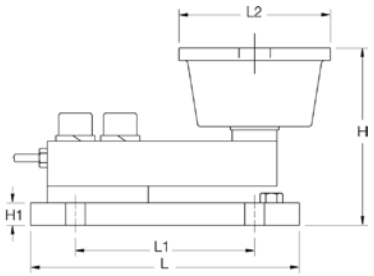




*50-250 lb (22.7-113.4 kg)*

## Order Information

| Load Rating (Per Module)* | | Part # | Price |
|---|---|---|---|
| **Stainless Steel Single Module (Includes Load Cell)** | | | |
| 50 lb | 22.7 kg | **196829** | $625.00 |
| 75 lb | 34.0 kg | **196830** | $625.00 |
| 100 lb | 45.4 kg | **196831** | $625.00 |
| 150 lb | 68.0 kg | **196832** | $625.00 |
| 250 lb | 113.4 kg | **196833** | $625.00 |
| 500 lb | 226.8 kg | **17954** | $640.00 |
| **Stainless Steel 3-Module Kit** | | | |
| 50 lb | 22.7 kg | **196840** | $2,125.00 |
| 75 lb | 34.0 kg | **196841** | $2,125.00 |
| 100 lb | 45.4 kg | **196842** | $2,125.00 |
| 150 lb | 68.0 kg | **196843** | $2,125.00 |
| 250 lb | 113.4 kg | **196844** | $2,125.00 |
| 500 lb | 226.8 kg | **30394** | $2,135.00 |
| **Stainless Steel 4-Module Kit** | | | |
| 50 lb | 22.7 kg | **196845** | $2,750.00 |
| 75 lb | 34.0 kg | **197015** | $2,750.00 |
| 100 lb | 45.4 kg | **196846** | $2,750.00 |
| 150 lb | 68.0 kg | **196848** | $2,750.00 |
| 250 lb | 113.4 kg | **196849** | $2,750.00 |
| 500 lb | 226.8 kg | **30393** | $2,795.00 |




*500 lb (226.8 kg)*



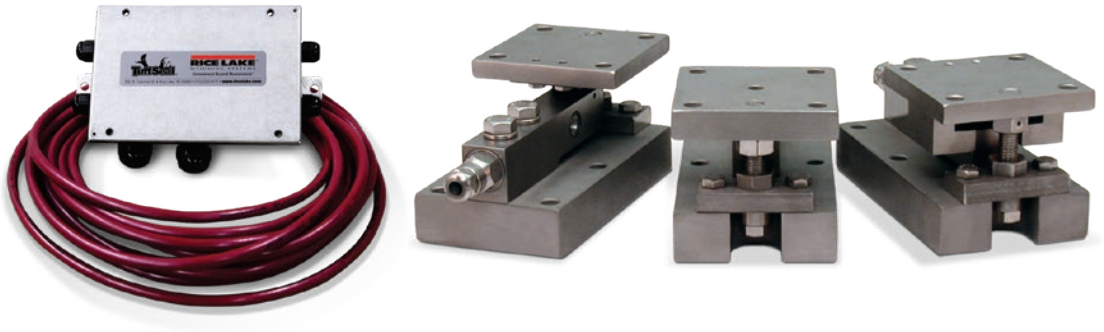
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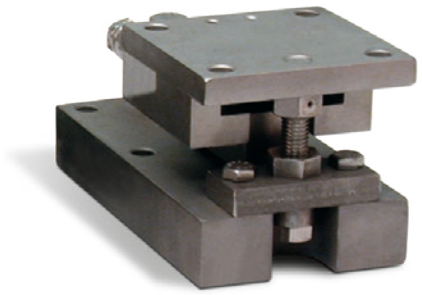
# Paramounts® EP

Environmentally Protected, Mild Steel, Light- to Medium-capacity Tank Weighing Systems

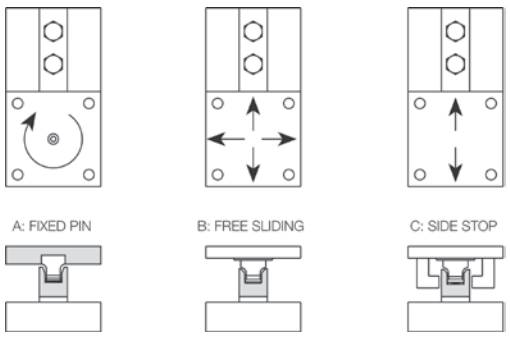


*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The Paramounts EP system offers all the design advantages of the Paramounts system in applications where the extensive sealing of the SB4 load cell is not necessary. Paramounts EP provides a low-cost alternative for the superior mechanical loading system found in the standard Paramounts. Economy and performance are in one complete weighing system.



*Free-sliding module with Flintec SB5 single-ended beam load cell.*




*Fixed-pin Mount* *Free-sliding Mount* *Side-stop Mount*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- One fixed-pin module, one side-stop module, and one or two free-sliding assemblies. Each module is complete with a Flintec SB5 NTEP Certified 1:5000d, Class III, stainless steel environmentally protected load cell
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 1,125-22,500 lb
- NTEP Certified load cells
- Unique design allows for thermal expansion/ contraction
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique blind load hole eliminates unwanted side and eccentric loads
- Vessel is free to slide laterally on PTFE-coated surfaces
- Load cell outputs are matched to ±0.07% allowing replacement without further calibration

## Applications

- Light- to medium-capacity tanks and hoppers
- High-vibration mixers and blenders
- Process measurement and control

## Load Cell Certifications

FM APPROVED NTEP OIML

*Available*

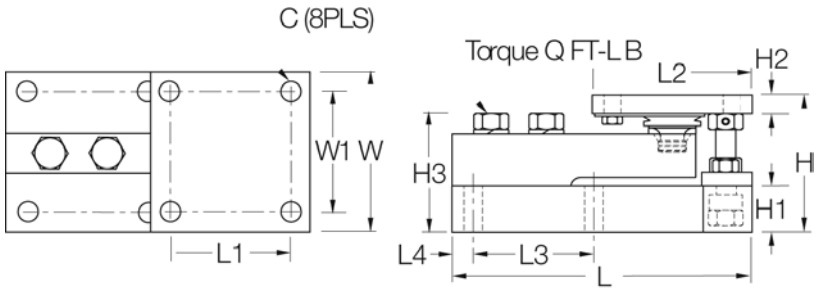




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# Paramounts® EP

Environmentally Protected, Mild Steel, Light- to Medium-capacity Tank Weighing Systems




## Dimensions

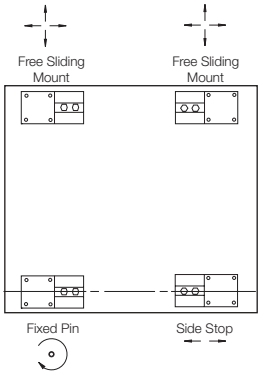
| Rated Capacity | | C | H | H1 | *H2 | **H2 | H3 | L | L1 | L2 | L3 | L4 | W | W1 | Q (FT- LB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | |
| 1,125-4,500 | 5-23 kN | 0.437 | 3.58 | 1.25 | 0.50 | 0.75 | 3.06 | 7.51 | 3.00 | 4.00 | 3.00 | 0.50 | 4.00 | 3.00 | 65.00 |
| 11,250 | 50 kN | 0.562 | 4.66 | 1.50 | 0.62 | 1.00 | 4.09 | 9.19 | 3.87 | 5.00 | 3.87 | 0.56 | 5.00 | 3.87 | 295.00 |
| 22,500 | 100 kN | 0.688 | 6.41 | 2.00 | 0.75 | 1.25 | 5.73 | 11.46 | 4.75 | 6.00 | 4.75 | 0.69 | 6.00 | 4.75 | 515.00 |
| **kg/mm** | | | | | | | | | | | | | | | |
| 510.8-2,041.0 | | 11.1 | 90.9 | 31.8 | 12.7 | 19.1 | 77.7 | 190.8 | 76.2 | 101.6 | 76.2 | 12.7 | 101.6 | 76.2 | — |
| 5,107.5 | | 14.3 | 118.4 | 38.1 | 15.7 | 25.4 | 103.9 | 233.4 | 98.3 | 127.0 | 98.3 | 14.2 | 127.0 | 98.3 | — |
| 10,215.0 | | 17.5 | 162.8 | 50.8 | 19.1 | 31.8 | 145.5 | 291.1 | 120.7 | 152.4 | 120.7 | 17.5 | 152.4 | 120.7 | — |

## Order Information

| Load Rating (Per Module) | | Part# | Price |
|---|---|---|---|
| **NTEP Certified 3-Module Kits** | | | |
| 1,125 lb | 5 kN/510.8 kg | **33683** | $2,315.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **33682** | $2,315.00 |
| 4,500 lb | 20 kN/2,041.2 kg | **33681** | $2,315.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **33680** | $2,665.00 |
| **NTEP Certified 4-Module Kits** | | | |
| 1,125 lb | 5 kN/510.8 kg | **33678** | $3,085.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **33677** | $3,085.00 |
| 4,500 lb | 20 kN/2,041.2 kg | **33676** | $3,085.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **33675** | $3,930.00 |
| **Non-NTEP Certified 3-Module Kit** | | | |
| 22,500 lb | 100 kN/10,205.8 kg | **33679** | $4,235.00 |
| **Non-NTEP Certified 4-Module Kit** | | | |
| 22,500 lb | 100 kN/10,215.0 kg | **33674** | $5,215.00 |

** Side-stop and free-sliding units*

*** Fixed-pin units*




*VESSEL ARRANGEMENT*

*When arranged as illustrated, the vessel is fixed at one corner but is able to slide freely as indicated. This ensures that there is minimal side loading on the cells and at the same time the vessel is self-checking. The unique, patented blind load hole technology used in these mounts introduces the load at the neutral axis of the load cell which helps minimize the effects of side loads.*



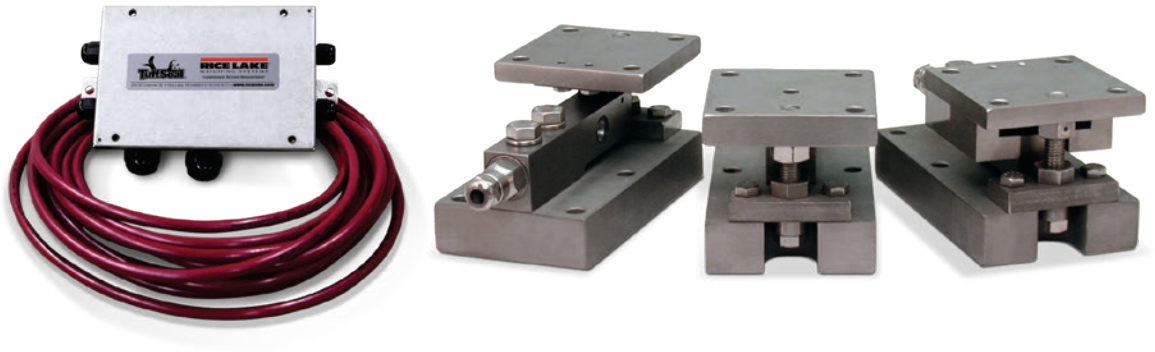
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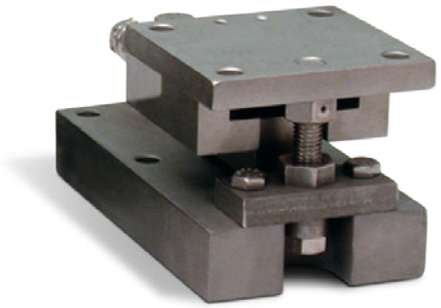
# Paramounts® HS

Hermetically Sealed, Mild Steel, Light- to Medium-capacity Tank Weighing Systems

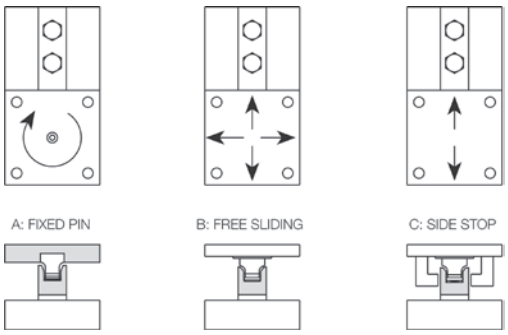


*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The Paramounts tank weighing system consists of one fixed-pin mount which allows only the top plate to rotate, one side-stop mount which allows the top plate to slide along the cell only, and one or more free-sliding mount(s) which allows the top plate to slide freely in all directions. This system provides self checking while maintaining unparalleled system accuracy.



*Free-sliding module with Flintec SB4 bending beam load cell.*




*Fixed-Pin Mount* *Free-Sliding Mount* *Side-Stop Mount*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- One fixed-pin module, one side-stop module, and one or two free-sliding assemblies. Each module is complete with a FLINTEC SB4 or SB10 (520 lb) stainless steel hermetically sealed load cell
- 25ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 520-22,500 lb (2.3 kN/102.1 kg-100 kN/10,205.9 kg)
- Unique design allows for thermal expansion/ contraction
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique blind load hole eliminates unwanted side and eccentric loads
- Vessel is free to slide laterally on PTFE-coated surfaces
- Load cell outputs are matched to ±.0.07%, allowing replacement without further calibration

## Applications

- Light- to medium-capacity tanks and hoppers
- Mixers and blenders
- Process measurement and control

## Optional Features

- NTEP Certified load cells available: Capacities 1,125 lb-11,250 lb

## Load Cell Certifications

FM APPROVED *Except 520 lb*

NTEP

OIML *Available*

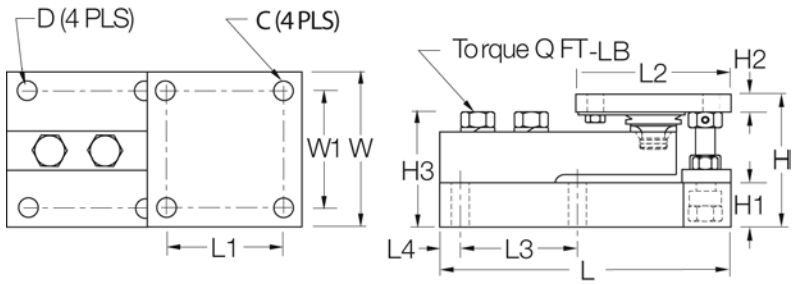




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# Paramounts® HS

Hermetically Sealed, Mild Steel, Light- to Medium-capacity Tank Weighing Systems




## Dimensions

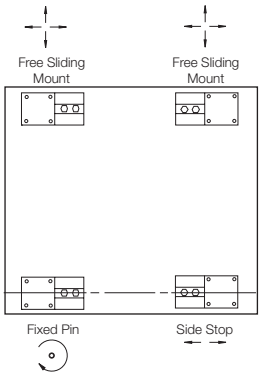
| Rated Capacity | | C | D | H | H1 | *H2 | **H2 | H3 | L | L1 | L2 | L3 | L4 | W | W1 | Q (FT- LB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | | |
| 520 | 2.3 kN | 0.375 | 0.437 | 3.49 | 1.00 | 0.50 | 0.75 | 2.98 | 7.51 | 3.00 | 4.00 | 3.00 | 0.50 | 4.00 | 3.00 | 65.00 |
| 1,125-5,200 | 5 kN-23 kN | 0.437 | 0.437 | 3.58 | 1.25 | 0.50 | 0.75 | 3.06 | 7.51 | 3.00 | 4.00 | 3.00 | 0.50 | 4.00 | 3.00 | 65.00 |
| 11,250 | 50 kN | 0.562 | 0.562 | 4.66 | 1.50 | 0.62 | 1.00 | 4.09 | 9.19 | 3.87 | 5.00 | 3.87 | 0.56 | 5.00 | 3.87 | 295.00 |
| 22,500 | 100 kN | 0.688 | 0.688 | 6.41 | 2.00 | 0.75 | 1.25 | 5.73 | 11.46 | 4.75 | 6.00 | 4.75 | 0.69 | 6.00 | 4.75 | 515.00 |
| **kg/mm** | | | | | | | | | | | | | | | | |
| 236.1 | | 9.5 | 11.1 | 88.6 | 25.4 | 12.7 | 19.1 | 75.7 | 190.8 | 76.2 | 101.6 | 76.2 | 12.7 | 101.6 | 76.2 | — |
| 510.8-2,360.0 | | 11.1 | 11.1 | 90.9 | 31.8 | 12.7 | 19.1 | 77.7 | 190.8 | 76.2 | 101.6 | 76.2 | 12.7 | 101.6 | 76.2 | — |
| 5,107.5 | | 14.3 | 14.3 | 118.4 | 38.1 | 15.7 | 25.4 | 103.9 | 233.4 | 98.3 | 127.0 | 98.3 | 14.2 | 127.0 | 98.3 | — |
| 10,215.0 | | 17.5 | 17.5 | 162.8 | 50.8 | 19.1 | 31.8 | 145.5 | 291.1 | 120.7 | 152.4 | 120.7 | 17.5 | 152.4 | 120.7 | — |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **NTEP Certified 3-Module Kit** | | | |
| 1,125 lb | 5 kN/510.8 kg | **29871** | $2,950.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **29872** | $2,950.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **29873** | $2,950.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **29874** | $3,595.00 |
| **NTEP Certified 4-Module Kit** | | | |
| 1,125 lb | 5 kN/510.8 kg | **29875** | $3,965.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **29876** | $3,965.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **29877** | $3,965.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **29878** | $4,475.00 |

** Side-stop and free-sliding units*

*** Fixed-pin units*




*VESSEL ARRANGEMENT*

*When arranged as illustrated, the vessel is fixed at one corner but is able to slide freely as indicated. This ensures that there is minimal side loading on the cells and at the same time the vessel is self-checking. The unique, patented blind load hole technology used in these mounts introduces the load at the neutral axis of the load cell which helps minimize the effects of side loads.*

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Non-NTEP Certified 3-Module Kit** | | | |
| 520 lb | 2.3 kN/236.1 kg | **38205** | $3,750.00 |
| 1,125 lb | 5 kN/510.8 kg | **17977** | $2,850.00 |
| 2,250 lb | 10 kN/1021.5 kg | **17978** | $2,850.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **17979** | $2,850.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **17980** | $3,450.00 |
| 22,500 lb | 100 kN/10,215.0 kg | **17981** | $4,465.00 |
| **Non-NTEP Certified 4-Module Kit** | | | |
| 520 lb | 2.3 kN/236.1 kg | **38206** | $4,995.00 |
| 1,125 lb | 5 kN/510.8 kg | **17984** | $3,765.00 |
| 2,250 lb | 10 kN/1,021.5 kg | **17985** | $3,765.00 |
| 5,200 lb | 23 kN/2,360.8 kg | **17986** | $3,765.00 |
| 11,250 lb | 50 kN/5,107.5 kg | **17987** | $4,270.00 |
| 22,500 lb | 100 kN/10,215.0 kg | **17988** | $5,390.00 |
| **Conduit adapter 1/2-14 NPT | | **17703** | $45.00 |



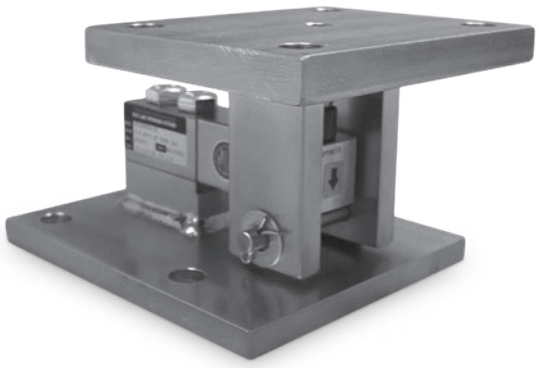
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# RLBTM

Mild Steel/Stainless Steel Weigh Modules



*Does not include load cell.*
*Picture is a representation of actual product.*

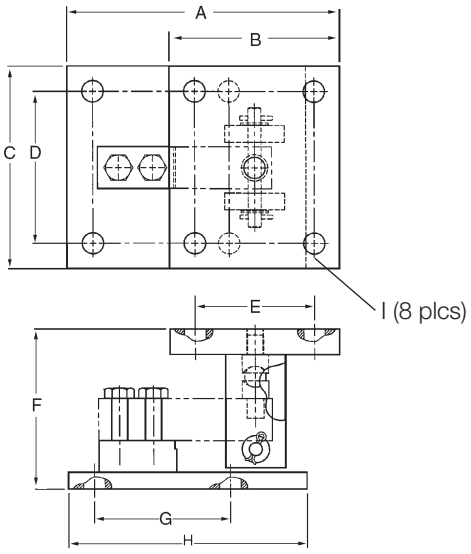
## Standard Features

- Capacities (per module): 500-5,000 lb SE mild steel/1,000-4,000 lb stainless steel
- Zinc plated, mild steel construction or stainless steel construction
- Self-checking, multi-directional movement
- Design incorporates a ball and cup for self centering
- The RLBTM will accommodate a standard shear beam 500 lb-5,000 lb SE load cell that has a threaded load hole. RL30000, RL39123, RL35023, RL35082, RL35083

## Applications

- Light- to medium-capacity tanks and hoppers
- Conveyors

The RLBTM mount was specifically created to take advantage of the improved load introduction accuracy of the ball and cup design. This multi-purpose mount is ideal for both indoor and outdoor applications, and can be used with a variety of single-ended beam load cells. Available in both mild and stainless steel, the RLBTM offers superior accuracy at an affordable price. These assemblies are also quick and easy to install, making the RLBTM the perfect choice for low-capacity, multi-purpose weighing needs.




## Dimensions

| Rated Capacity | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | | |
| 1,000-5,000 SE* | 8.00 | 5.00 | 6.00 | 4.50 | 3.50 | 4.75 | 4.00 | 7.00 | 0.63 |
| kg/mm | | | | | | | | | |
| 453.6-2,268.0 | 203.2 | 127.00 | 152.4 | 114.3 | 88.9 | 120.6 | 101.6 | 177.8 | 16.0 |

## Mild Steel Order Information

| Load Rating (Per Module) | | Part# | Price |
|---|---|---|---|
| Single Module (Does NOT Include Load Cell) | | | |
| 1,000 lb-5,000 lb SE* | 453.6 kg-2,268.0 kg | **53059** | $365.00 |

**SE refers to small envelope*

## Stainless Steel Order Information

| Load Rating (Per Module) | | Part# | Price |
|---|---|---|---|
| Single Module (Does NOT Include Load Cell) | | | |
| 1,000 lb-4,000 lb | 453.6 kg-1,814.4 kg | **53066** | $560.00 |





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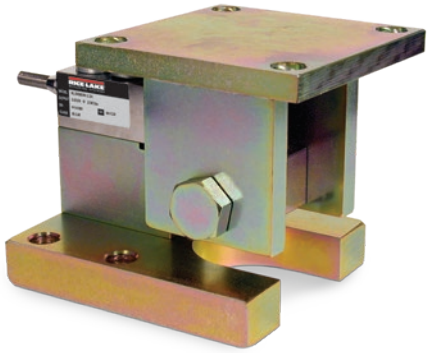
# RL1800 Series

Mild Steel/Stainless Steel Weigh Modules



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product*

The RL1800 Series mounting assembly kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1800 Series kit is ideally suited for indoor and outdoor process control operations with medium-range capacities. Each module combines multi-directional movement and self-checking capabilities. The load cells used are NTEP Certified in capacities of 1,000 lb to 10,000 lb.



*Module with RL32018 single-ended beam load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1800 mild steel or stainless steel compression mounts
- Three or four RL32018 single-ended beam load cells, RL32018S used in stainless steel
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 250-10,000 lb (113.4-4,535.9 kg)
- NTEP Certified cells in 1,000-10,000 lb (453.6-4535.9 kg) capacities, except 3,000 lb (1,360.9 kg)
- Zinc plated mild steel/stainless steel construction
- Center-pivoted, tension loading design
- Self-checking, multi-directional movement
- Load is suspended on high-strength bolt instead of wire rope
- Design incorporates spherical washers for self centering
- Stainless steel kit includes RL32018S NTEP Certified load cell

## Applications

- Conveyors
- Medium-capacity tanks and hoppers

## Load Cell Certifications

FM APPROVED

NTEP

*Except 250 lb and 500 lb*

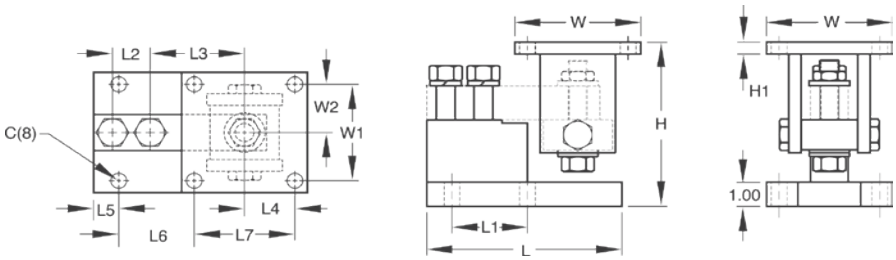




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# RL1800 Series

Mild Steel/Stainless Steel Weigh Modules




## Dimensions

| Rated Capacity | C | H Min/ Max | H1 | L | L1 | L2 | L3 | L4 | L5 | L6 | L7 | W | W1 | W2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mild Steel Construction** | | | | | | | | | | | | | | |
| **lb/in** | | | | | | | | | | | | | | |
| 250-5,000 SE* | 0.62 | 5.25/5.56 | 0.50 | 6.00 | 2.00 | 1.00 | 3.00 | 2.00 | 0.68 | 1.94 | 4.00 | 5.00 | 4.00 | 2.00 |
| 5,000 LE**-10,000 | 0.62 | 6.12/6.62 | 0.50 | 7.75 | 3.00 | 1.50 | 3.75 | 2.00 | 1.03 | 2.97 | 4.00 | 5.00 | 4.00 | 2.00 |
| **kg/mm** | | | | | | | | | | | | | | |
| 113.4-2,268.0 | 15.8 | 133.4/141.2 | 12.7 | 152.4 | 50.8 | 25.4 | 76.2 | 50.8 | 17.3 | 49.3 | 101.6 | 127.0 | 101.6 | 50.8 |
| 2,268.0-4,535.9 | 15.8 | 155.4/168.1 | 12.7 | 196.9 | 76.2 | 38.1 | 95.3 | 50.8 | 26.2 | 75.4 | 101.6 | 127.0 | 101.6 | 50.8 |
| **Stainless Steel Construction** | | | | | | | | | | | | | | |
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-4,000 | 0.62 | 5.25/5.56 | 0.50 | 6.00 | 2.00 | 1.00 | 3.00 | 2.00 | 0.68 | 1.94 | 4.00 | 5.00 | 4.00 | 2.00 |
| 5,000-10,000 | 0.62 | 6.12/6.62 | 0.50 | 7.75 | 3.00 | 1.50 | 3.75 | 2.00 | 1.03 | 2.97 | 4.00 | 5.00 | 4.00 | 2.00 |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-1,814.4 | 15.8 | 133.4/141.2 | 12.7 | 152.4 | 50.8 | 25.4 | 76.2 | 50.8 | 17.3 | 49.3 | 101.6 | 127.0 | 101.6 | 50.8 |
| 2,268.0-4,535.9 | 15.8 | 155.4/168.1 | 12.7 | 196.9 | 76.2 | 38.1 | 95.3 | 50.8 | 26.2 | 75.4 | 101.6 | 127.0 | 101.6 | 50.8 |

## Mild Steel Order Information

| Load Rating (Per Module)* | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 250 lb-5,000 lb SE | 113.4 kg-2,268.0 kg | **17817** | $340.00 |
| 5,000 lb LE-10,000 lb | 2,268.0 kg-4,535.9 kg | **17819** | $365.00 |
| **3-Module Kit** | | | |
| 250 lb* | 113.4 kg | **18075** | $2,055.00 |
| 500 lb* | 226.8 kg | **18076** | $2,055.00 |
| 1,000 lb | 453.6 kg | **18077** | $2,055.00 |
| 2,000 lb | 907.2 kg | **18078** | $2,055.00 |
| 2,500 lb | 1,134.0 kg | **18079** | $2,055.00 |
| 3,000 lb | 1,360.8 kg | **18080** | $2,055.00 |
| 4,000 lb | 1,814.4 kg | **18081** | $2,055.00 |
| 5,000 lb SE | 2,268.0 kg | **18082** | $2,055.00 |
| 5,000 lb LE | 2,268.0 kg | **18083** | $2,370.00 |
| 10,000 lb | 4,535.9 kg | **18084** | $2,370.00 |
| **4-Module Kit** | | | |
| 250 lb* | 113.4 kg | **18085** | $2,670.00 |
| 500 lb* | 226.8 kg | **18086** | $2,670.00 |
| 1,000 lb | 453.6 kg | **18087** | $2,670.00 |
| 2,000 lb | 907.2 kg | **18088** | $2,670.00 |
| 2,500 lb | 1,134.0 kg | **18089** | $2,670.00 |
| 3,000 lb | 1,360.8 kg | **18090** | $2,670.00 |
| 4,000 lb | 1,814.4 kg | **18091** | $2,670.00 |
| 5,000 lb SE | 2,268.0 kg | **18092** | $2,670.00 |
| 5,000 lb LE | 2,268.0 kg | **18093** | $3,070.00 |
| 10,000 lb | 4,535.9 kg | **18094** | $3,070.00 |

*SE=Small envelope; LE=Large envelope*

** Non NTEP Certified using RL3000 or RL32018 load cells.*

## Stainless Steel Order Information

| Load Rating (Per Module)** | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 250 lb-4,000 lb | 113.4 kg-1,814.4 kg | **17818** | $550.00 |
| 5,000 lb-10,000 lb | 2,268.0 kg-4,535.9 kg | **17820** | $575.00 |
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18095** | $2,785.00 |
| 2,000 lb | 907.2 kg | **18096** | $2,785.00 |
| 2,500 lb | 1,134.0 kg | **18097** | $2,785.00 |
| 4,000 lb | 1,814.4 kg | **18099** | $2,785.00 |
| 5,000 lb LE | 2,268.0 kg | **18100** | $3,015.00 |
| 10,000 lb | 4,535.9 kg | **18101** | $3,015.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18102** | $3,710.00 |
| 2,000 lb | 907.2 kg | **18103** | $3,710.00 |
| 2,500 lb | 1,134.0 kg | **18104** | $3,710.00 |
| 4,000 lb | 1,814.4 kg | **18106** | $3,710.00 |
| 5,000 lb LE | 2,268.0 kg | **18107** | $4,025.00 |
| 10,000 lb | 4,535.9 kg | **18108** | $4,025.00 |
| **Dummy Cell** | | | |
| Dummy load cell | 1 k-5 k SE* | **22980** | $47.00 |

*** Load rating is per module*



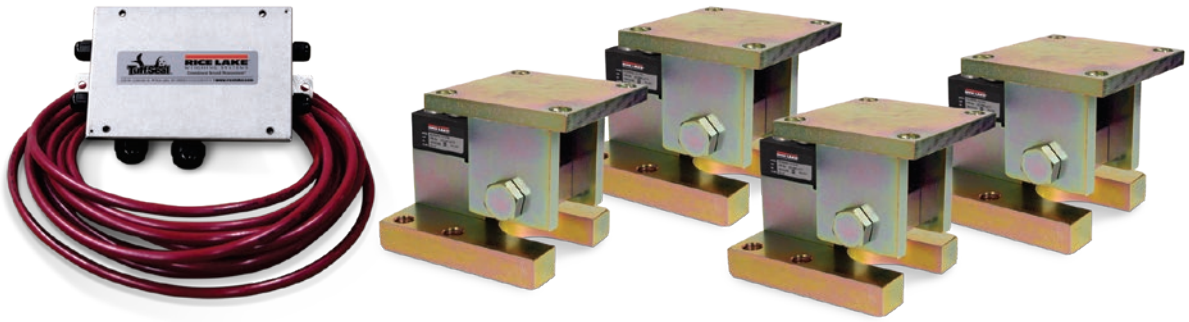




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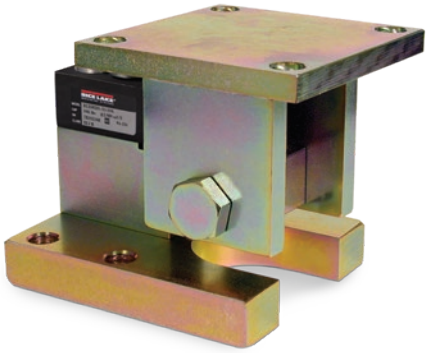
# RL1800 Series Painted Load Cell Version

Stainless Steel Weigh Modules



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product*

The RL1800 Series mounting assembly kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1800 Series kit is ideally suited for indoor and outdoor process control operations with medium-range capacities. Each module combines multi-directional movement and self-checking capabilities. The load cells used are NTEP Certified in capacities of 1,000 lb to 10,000 lb.



*Module with RL35023S painted single-ended beam load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1800 stainless steel compression mounts
- Three or four RL35023S painted stainless steel single-ended beam load cells,
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 1,000-10,000 lb (453.6-4,535.9 kg)
- NTEP Certified cells in 1,000-10,000 lb (453.6-4535.9 kg) capacities
- Stainless steel construction
- Center-pivoted, tension loading design
- Self-checking, multi-directional movement
- Load is suspended on high-strength bolt instead of wire rope
- Design incorporates spherical washers for self centering
- Painted load cells for corrosion protection

## Applications

- Conveyors
- Medium-capacity tanks and hoppers

## Load Cell Certifications

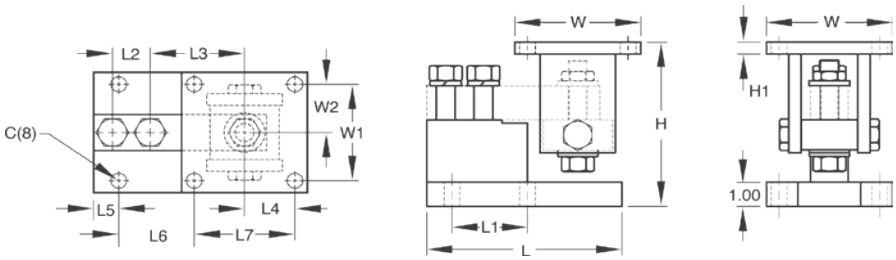




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# RL1800 Series Painted Load Cell Version

Stainless Steel Weigh Modules




## Dimensions

| Rated Capacity | C | H Min/ Max | H1 | L | L1 | L2 | L3 | L4 | L5 | L6 | L7 | W | W1 | W2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Stainless Steel Construction** | | | | | | | | | | | | | | |
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-4,000 | 0.62 | 5.25/5.56 | 0.50 | 6.00 | 2.00 | 1.00 | 3.00 | 2.00 | 0.68 | 1.94 | 4.00 | 5.00 | 4.00 | 2.00 |
| 5,000-10,000 | 0.62 | 6.12/6.62 | 0.50 | 7.75 | 3.00 | 1.50 | 3.75 | 2.00 | 1.03 | 2.97 | 4.00 | 5.00 | 4.00 | 2.00 |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-1,814.4 | 15.8 | 133.4/141.2 | 12.7 | 152.4 | 50.8 | 25.4 | 76.2 | 50.8 | 17.3 | 49.3 | 101.6 | 127.0 | 101.6 | 50.8 |
| 2,268.0-4,535.9 | 15.8 | 155.4/168.1 | 12.7 | 196.9 | 76.2 | 38.1 | 95.3 | 50.8 | 26.2 | 75.4 | 101.6 | 127.0 | 101.6 | 50.8 |

## Stainless Steel Order Information

| Load Rating (Per Module)** | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 1,000 lb-4,000 lb | 453.6 kg-1,814.4 kg | **17818** | $550.00 |
| 5,000 lb-10,000 lb | 2,268.0 kg-4,535.9 kg | **17820** | $575.00 |
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **188177** | $2,770.00 |
| 2,000 lb | 907.2 kg | **188179** | $2,770.00 |
| 2,500 lb | 1,134.0 kg | **188181** | $2,770.00 |
| 4,000 lb | 1,814.4 kg | **188183** | $2,770.00 |
| 5,000 lb | 2,268.0 kg | **188185** | $3,000.00 |
| 10,000 lb | 4,535.9 kg | **188187** | $3,000.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **188178** | $3,695.00 |
| 2,000 lb | 907.2 kg | **188180** | $3,695.00 |
| 2,500 lb | 1,134.0 kg | **188182** | $3,695.00 |
| 4,000 lb | 1,814.4 kg | **188184** | $3,695.00 |
| 5,000 lb | 2,268.0 kg | **188186** | $4,910.00 |
| 10,000 lb | 4,535.9 kg | **188188** | $4,010.00 |

*** Load rating is per module*



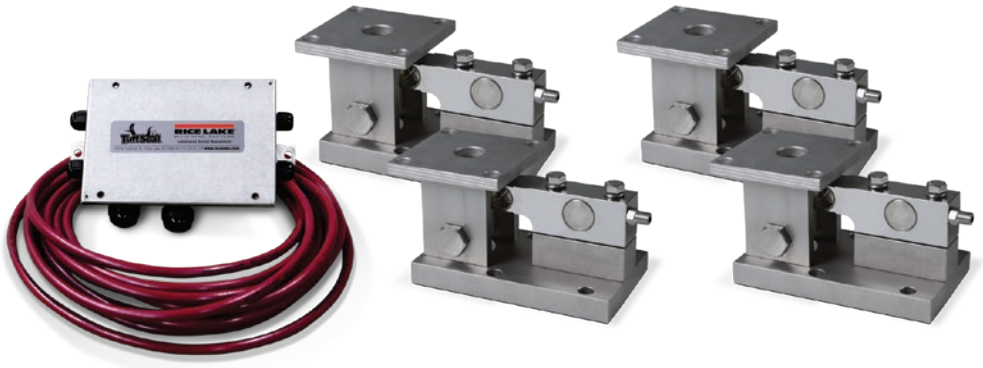
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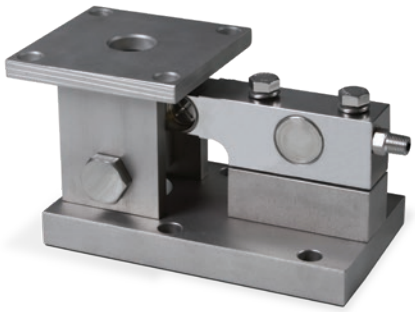
# RL1900 Series

Stainless Steel Weigh Modules



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product*

The RL1900 Series weigh module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1900 kit is ideally suited for tank, hopper and bin weighing operations with medium-range capacities. Each module combines multi-directional movement and self-checking capabilities. The welded-seal, stainless steel RLSSB load cell withstands washdown environments that may present problems to other cells.



*Module with welded-seal RLSSB single-ended beam load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1900 stainless steel compression mounts
- Three or four RLSSB welded stainless steel single-ended beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- NTEP Certified load cells, 1:5000d, Class III single cell
- Capacities (per module): 1,000-10,000lb (453.6-4,535.9 kg)
- 304 stainless steel construction
- Center-pivoted, tension loading design
- Welded-seal stainless steel load cells, IP67
- Self-checking, multi-directional movement
- Easy load cell replacement
- Load is suspended on high-strength bolt instead of wire rope
- Design incorporates spherical washers

## Applications

- Medium-capacity tanks, bins and hoppers
- Washdown applications

## Optional Features

- Also compatible with RTI SSB load cells

## Load Cell Certifications

FM APPROVED

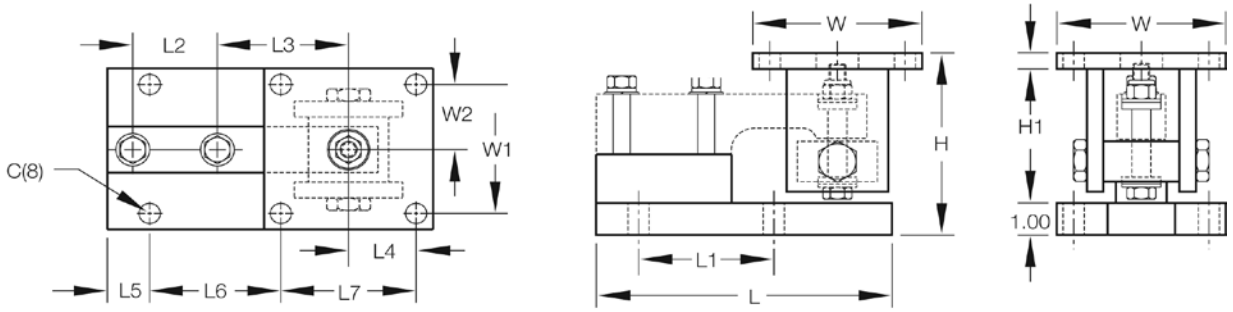




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# RL1900 Series

Stainless Steel Weigh Modules




## Dimensions

| Rated Capacity | C | H Min/Max | H1 | L | L1 | L2 | L3 | L4 | L5 | L6 | L7 | W | W1 | W2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-5,000 | 0.62 | 5.38/5.62 | 0.50 | 8.75 | 4.00 | 2.50 | 3.88 | 2.00 | 1.12 | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 |
| 10,000 | 0.81 | 6.88/7.50 | 1.00 | 9.75 | 5.00 | 2.63 | 4.88 | 2.25 | 1.00 | 5.00 | 4.50 | 6.00 | 4.50 | 2.25 |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-2,268.0 | 15.8 | 136.7/142.9 | 12.7 | 222.3 | 101.6 | 63.5 | 98.6 | 50.8 | 28.4 | 101.6 | 101.6 | 127.0 | 101.6 | 50.8 |
| 4,535.9 | 20.6 | 174.8/190.5 | 25.4 | 247.7 | 127.0 | 66.8 | 124.0 | 57.2 | 25.4 | 127.0 | 114.3 | 152.4 | 114.3 | 57.2 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **17841** | $600.00 |
| 10,000 lb | 4,535.9 kg | **17843** | $655.00 |
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18109** | $3,760.00 |
| 2,000 lb | 907.2 kg | **18110** | $3,760.00 |
| 5,000 lb | 2,268.0 kg | **18111** | $3,760.00 |
| 10,000 lb | 4,535.9 kg | **18112** | $4,190.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18113** | $5,010.00 |
| 2,000 lb | 907.2 kg | **18114** | $5,010.00 |
| 5,000 lb | 2,268.0 kg | **18115** | $5,010.00 |
| 10,000 lb | 4,535.9 kg | **18116** | $5,550.00 |



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# RLTM

Stainless Steel Tank Weigh Modules



*Picture is a representation of actual product.*

The RLTM weigh module assembly features a stainless steel, welded-seal RL30745 or RL32018S-T NTEP Certified load cell and a fully stainless mount including all associated hardware. Using a rocker pin-loading concept, this design provides accurate weighing in most conditions. Standard features include both overload and overlift protection, making it ideal for most outdoor, low-capacity tank and vessel weighing applications. Each Rice Lake RLTM module is provided standard with one load cell with 30 feet of cable and one mount.

## Specifications

**Full Scale Output:**
2.0 ± - 0.2 mV/V

**Bridge Resistance:**
350 ohms

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
15°F to 104°F/-97°C to 40°C

**Safe Overload:**
150% Full scale

**Safe Sideload:**
100% Full scale

**Rated Excitation:**
15 V DC

**Combined Error:**
0.03% Full scale

**Insulation Resistance:**
5000 megohms

**Seal Type:**
Welded seal, IP67

**Cable Length:**
30 ft/9.1 m (500-10 k)

**Cable Color Code:**
Green + Excitation
Black – Excitation
White + Signal
Red – Signal

**Warranty:**
Two-year limited warranty

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four Rice Lake RLTM stainless steel mounting assemblies
- Three or four RL30745 or RL32018S-T stainless steel load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities: 500-10,000 lb (226.8-4,536.0 kg)
- Stainless steel
- Overload and overlift protection
- Rocker pin loading
- Welded-sealed load cells
- Integral lateral stops
- 30 ft cable on load cells

## Applications

- Lower capacity tank and vessel weighing
- Process control and batching

## Load Cell Certifications

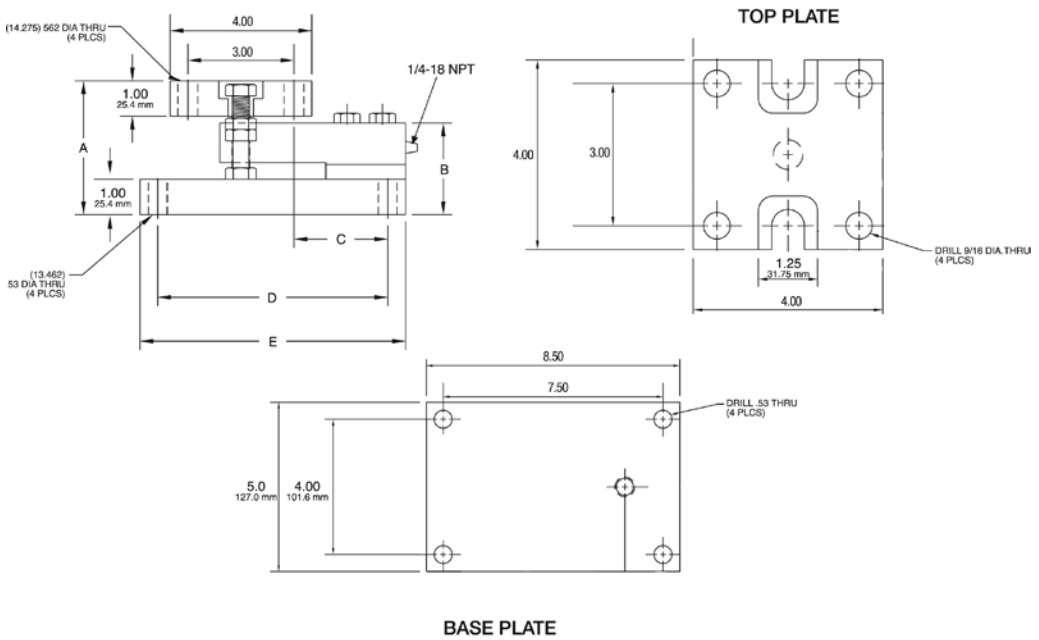
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NTEP





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## Dimensions

| Rated Capacity | A | B | C | D | E |
|---|---|---|---|---|---|
| **lb/in** | | | | | |
| 500-2,500 | 3.77 | 2.59 | 2.62 | 6.50 | 7.50 |
| 5,000 | 3.99 | 2.83 | 2.62 | 6.50 | 7.50 |
| 10,000 | 4.27 | 3.08 | 3.88 | 7.50 | 8.50 |
| **kg/mm** | | | | | |
| 226.8-1,134.0 | 95.7 | 65.7 | 66.5 | 165.1 | 190.5 |
| 2,268.0 | 101.3 | 71.8 | 66.5 | 165.1 | 190.5 |
| 4,536.0 | 108.4 | 78.2 | 98.5 | 190.5 | 215.9 |

## Order Information

| Load Rating (Per Module) | | Part# | Price |
|---|---|---|---|
| 500 lb | 226.8 kg | **159288** | $950.00 |
| 1,250 lb | 567.0 kg | **159289** | $950.00 |
| 2,500 lb | 1,134.0 kg | **159290** | $950.00 |
| 5,000 lb | 2,268.0 kg | **159291** | $1,150.00 |
| 10,000 lb | 4,536.0 kg | **159292** | $1,150.00 |
| **3-Module Kit** | | | |
| 500 lb | 226.8 kg | **162942** | $2,960.00 |
| 1,250 lb | 567.0 kg | **162944** | $2,960.00 |
| 2,500 lb | 1,134.0 kg | **162945** | $2,960.00 |
| 5,000 lb | 2,268.0 kg | **162946** | $3,660.00 |
| 10,000 lb | 4,536.0 kg | **162947** | $3,660.00 |
| **4-Module Kit** | | | |
| 500 lb | 226.8 kg | **162948** | $3,910.00 |
| 1250 lb | 567.0 kg | **162949** | $3,910.00 |
| 2500 lb | 1,134.0 kg | **162950** | $3,910.00 |
| 5000 lb | 2,268.0 kg | **162951** | $4,710.00 |
| 10,000 lb | 4,536.0 kg | **162953** | $4,710.00 |



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# RL9000TWM Series

Tank, Hopper and Vessel Weighing Assembly



*Picture is a representation of actual product.*

The RL9000TWM Series stainless steel weigh module is ideal for use in tank, hopper, vessel and many other applications. The low-profile design offers an economical solution in a competitive marketplace. This rugged, high-precision mount is designed for easy installation and does not require check rods or other stabilizing hardware. The stainless steel construction and welded-seal offer additional protection in washdown areas.

## Specifications

**Full Scale Output:**
3 (± 0.1%)mV/V

**Bridge Resistance:**
350 ohms

**Material/Finish:**
Stainless steel

**Operating Temperature:**
0° to 150° F

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% Full scale

**Rated Excitation:**
5-10 VDC

**Insulation Resistance:**
5,000 megohms

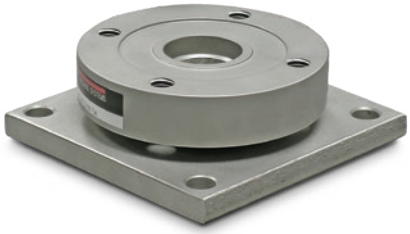
**Non-linearity:**
1 k-100 k 0.05% FS
150 k-450 k 0.1% FS

**Non-repeatability:**
1 k-100 k 0.02% FS
150 k-450 k 0.03% FS

**Cable Length:**
25 ft

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited



*Assembly with integral RL9000TWM compression disk load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four stainless steel mounting assemblies
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities: 1,000 lb-450,000 lb
- Very low profile design
- 3mV/V output
- Self-centering
- Self-checking assembly
- Offers 100% sideload, 100% uplift and 150% static safe load and 300% ultimate static overload protection
- Stainless steel construction
- Welded seal
- Weighs accurately with as much as a 3° non-parallel load
- Includes 25 ft load cell cable

## Applications

- Tank, hopper or vessel weighing

## Optional Features

- Stainless steel top plates (150,000 lb-450,000 lb have mild steel painted base plate)

## Load Cell Certifications

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## Order Information

| Load Rating (Per Module) | Part# | Price |
|---|---|---|
| **Single Module** | | |
| 1,000 lb | **84353** | $650.00 |
| 2,500 lb | **84354** | $650.00 |
| 5,000 lb | **84355** | $650.00 |
| 10,000 lb | **84356** | $650.00 |
| 15,000 lb | **84357** | $650.00 |
| 20,000 lb | **84358** | $1,265.00 |
| 25,000 lb | **84359** | $1,265.00 |
| 35,000 lb | **84360** | $1,265.00 |
| 50,000 lb | **84361** | $1,265.00 |
| 60,000 lb | **84362** | $2,165.00 |
| 75,000 lb | **84363** | $2,165.00 |
| 100,000 lb | **84364** | $2,165.00 |
| 150,000 lb | **84365** | $4,485.00 |
| 200,000 lb | **84366** | $4,485.00 |
| 250,000 lb | **84368** | $6,615.00 |
| 300,000 lb | **84369** | $6,615.00 |
| 400,000 lb | **84370** | $6,615.00 |
| 450,000 lb | **84371** | $6,615.00 |
| **3-Module Kit** | | |
| 1,000 lb | **98974** | $2,175.00 |
| 2,500 lb | **98980** | $2,175.00 |
| 5,000 lb | **98981** | $2,175.00 |
| 10,000 lb | **98982** | $2,175.00 |
| 15,000 lb | **98983** | $2,175.00 |
| 20,000 lb | **98984** | $4,020.00 |
| 25,000 lb | **98985** | $4,020.00 |
| 35,000 lb | **98986** | $4,020.00 |
| 50,000 lb | **98987** | $4,020.00 |
| 60,000 lb | **98988** | $6,660.00 |
| 75,000 lb | **98989** | $6,660.00 |
| 100,000 lb | **98990** | $6,660.00 |
| 150,000 lb | **98991** | $13,590.00 |
| 200,000 lb | **98992** | $13,590.00 |
| 250,000 lb | **98993** | $20,010.00 |
| 300,000 lb | **98994** | $20,010.00 |
| 400,000 lb | **98995** | $20,010.00 |
| 450,000 lb | **98996** | $20,010.00 |
| **4-Module Kit** | | |
| 1,000 lb | **98997** | $2,730.00 |
| 2,500 lb | **98998** | $2,730.00 |
| 5,000 lb | **98999** | $2,730.00 |
| 10,000 lb | **99000** | $2,730.00 |
| 15,000 lb | **99001** | $2,730.00 |
| 20,000 lb | **99002** | $5,190.00 |
| 25,000 lb | **99003** | $5,190.00 |
| 35,000 lb | **99004** | $5,190.00 |
| 50,000 lb | **99005** | $5,190.00 |
| 60,000 lb | **99006** | $8,750.00 |
| 75,000 lb | **99007** | $8,750.00 |
| 100,000 lb | **99008** | $8,750.00 |
| 150,000 lb | **99009** | $17,975.00 |
| 200,000 lb | **99010** | $17,975.00 |
| 250,000 lb | **99011** | $26,510.00 |
| 300,000 lb | **99012** | $26,510.00 |
| 400,000 lb | **99013** | $26,510.00 |
| 450,000 lb | **99014** | $26,510.00 |

*150,000 lb-450,000 lb have mild steel painted base plates*

| Load Rating (Per Module) | Part# | Price |
|---|---|---|
| **Top Plates (Stainless Steel) with bolts** | | |
| 1,000 lb-15,000 lb | **91207** | $115.00 |
| 20,000 lb-50,000 lb | **91210** | $275.00 |
| 60,000 lb-100,000 lb | **91211** | $450.00 |
| 150,000 lb-200,000 lb | **91213** | $725.00 |
| 250,000 lb-450,000 lb | **91215** | $1,695.00 |
| **Top Plates (Mild Steel) with bolts** | | |
| 1,000 lb-15,000 lb | **124758** | $55.00 |
| 20,000 lb-50,000 lb | **125141** | $115.00 |
| 60,000 lb-100,000 lb | **124759** | $155.00 |
| 150,000 lb-200,000 lb | **124760** | $250.00 |
| 250,000 lb-450,000 lb | **124761** | $375.00 |
| **Dummy Weigh Modules (non-functioning)** | | |
| 1,000 lb-10,000 lb | **158749** | $95.00 |
| 15,000 lb | **158750** | $125.00 |
| 20,000 lb-50,000 lb | **158752** | $135.00 |
| 60,000 lb-100,000 lb | **158753** | $150.00 |
| 150,000 lb-200,000 lb | **158754** | $395.00 |
| 250,000 lb-450,000 lb | **158755** | $425.00 |

*150,000 lb-450,000 lb have mild steel painted base plates*

## Shims* - Order Information

| Capacity | Thickness | Material | Part # | Price |
|---|---|---|---|---|
| **Shims** | | | | |
| 1,000 lb-15,000 lb | 0.0625 | SST | **167001** | $2.25 |
| 1,000 lb-15,000 lb | 0.125 | SST | **167002** | $3.50 |
| 1,000 lb-15,000 lb | 0.250 | SST | **167003** | $6.15 |
| 1,000 lb-15,000 lb | 0.0625 | MS | **167004** | $1.75 |
| 1,000 lb-15,000 lb | 0.125 | MS | **167005** | $2.15 |
| 1,000 lb-15,000 lb | 0.250 | MS | **167006** | $2.75 |
| 20,000 lb-50,000 lb | 0.0625 | SST | **167008** | $4.10 |
| 20,000 lb-50,000 lb | 0.125 | SST | **167009** | $6.05 |
| 20,000 lb-50,000 lb | 0.250 | SST | **167010** | $13.25 |
| 20,000 lb-50,000 lb | 0.0625 | MS | **167011** | $2.65 |
| 20,000 lb-50,000 lb | 0.125 | MS | **167012** | $2.35 |
| 20,000 lb-50,000 lb | 0.250 | MS | **167013** | $3.50 |
| 60,000 lb-100,000 lb | 0.0625 | SST | **167014** | $4.75 |
| 60,000 lb-100,000 lb | 0.125 | SST | **167015** | $16.15 |
| 60,000 lb-100,000 lb | 0.250 | SST | **167016** | $26.25 |
| 150,000 lb-200,000 lb | 0.0625 | SST | **167020** | $9.25 |
| 150,000 lb-200,000 lb | 0.125 | SST | **167021** | $14.95 |
| 150,000 lb-200,000 lb | 0.250 | SST | **167022** | $35.75 |
| 250,000 lb-450,000 lb | 0.0625 | SST | **167026** | $15.75 |
| 250,000 lb-450,000 lb | 0.125 | SST | **167027** | $19.75 |
| 250,000 lb-450,000 lb | 0.250 | SST | **167028** | $45.00 |

*SST Stainless steel MS Mild steel*
**Shims match dimensions of base plate and optional top plate*

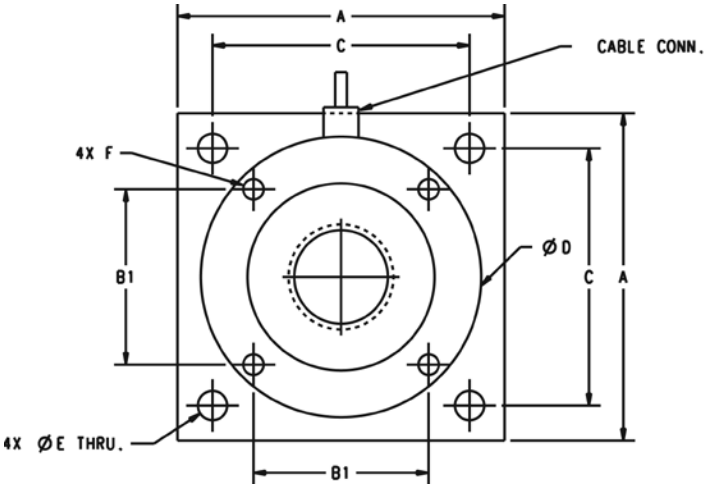


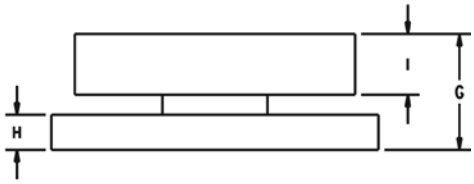


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# RL9000TWM Series

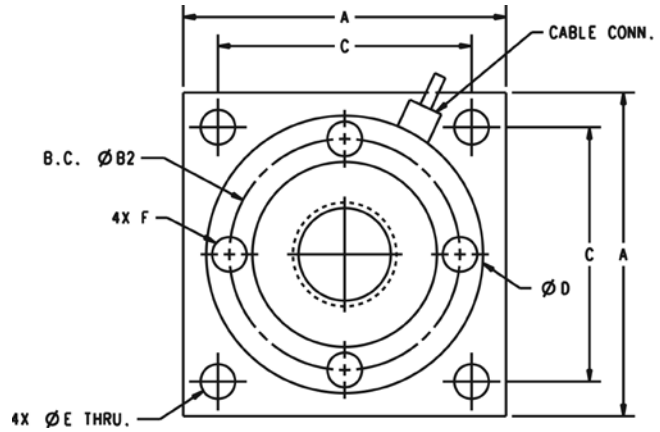
Tank, Hopper and Vessel Weighing Assembly

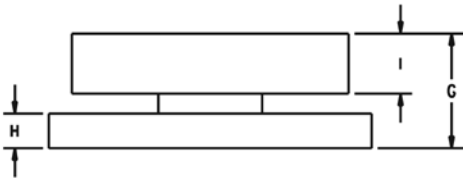



## Dimensions (inches)

| Rated Capacity | A | B1 | C | D | E | F | G | H | I | Conduit Adapter |
|---|---|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | | | |
| 1,000-10,000 | 4.00 | 2.00 | 3.25 | 3.50 | 0.40 | 3/8-16 UNC | 1.35 | 0.375 | 0.75 | N/A |
| 15,000 | 4.00 | 2.00 | 3.25 | 3.50 | 0.40 | 3/8-16 UNC | 1.60 | 0.625 | 0.75 | N/A |
| 20,000-50,000 | 7.00 | 3.75 | 5.50 | 6.00 | 0.63 | 1/2-13 UNC | 2.48 | 0.75 | 1.30 | 1/2-14 NPT |
| 60,000-100,000 | 8.00 | 4.25 | 6.50 | 7.00 | 0.81 | 3/4-16 UNC | 2.50 | 1.00 | 1.30 | 1/2-14 NPT |




## Dimensions (inches)

| Rated Capacity | A | B2 | C | D | E | F | G | H | I | Conduit Adapter |
|---|---|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | | | |
| 150,000-200,000 | 10.0 | 7.825 | 8.00 | 9.00 | 1.10 | 1-14 UNF | 4.75 | 2.00 | 1.70 | 1/2-14 NPT |

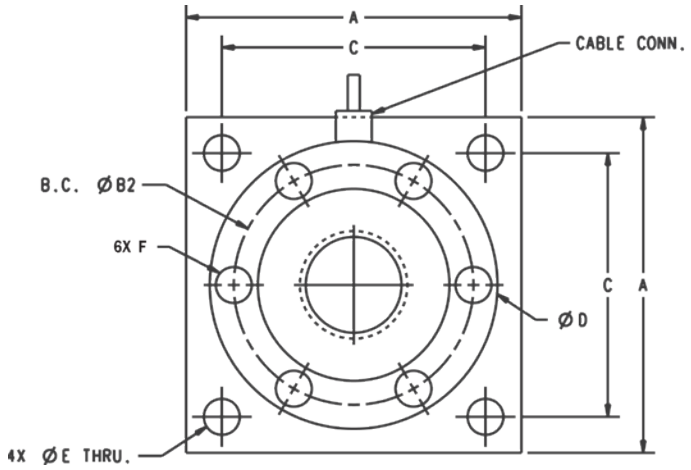


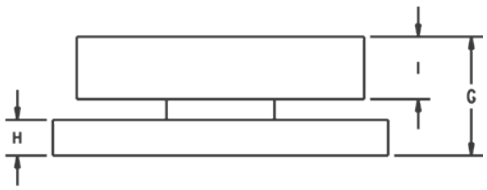


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# RL9000TWM Series

Tank, Hopper and Vessel Weighing Assembly

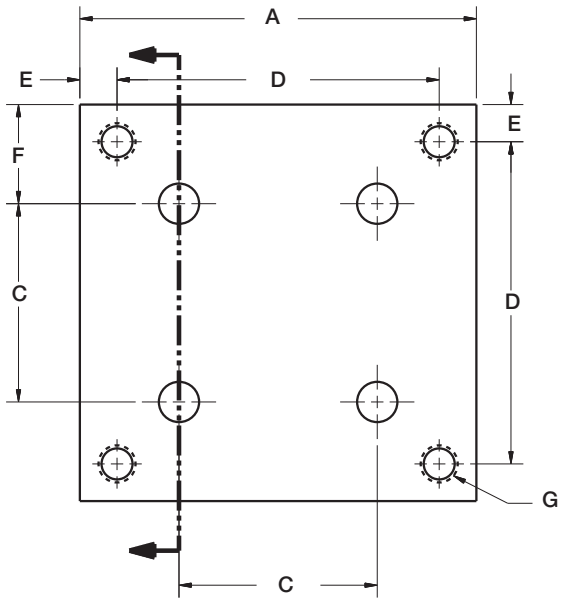


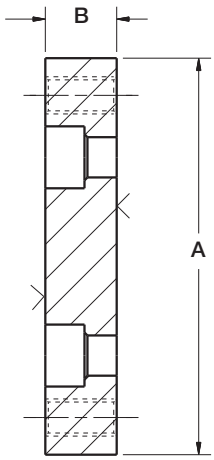




## Dimensions

| Rated Capacity | A | B2 | C | D | E | F | G | H | I | Conduit Adapter |
|---|---|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | | | |
| 250,000-450,000 | 11.00 | 7.75 | 9.00 | 9.00 | 1.30 | 7/8-14 UNF | 6.42 | 3.00 | 2.25 | 1/2-14 NPT |

## Optional Top Plates




## Dimensions

| Rated Capacity | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | |
| 1,000-15,000 | 4.00 | 0.72 | 2.00 | 3.25 | 0.38 | 1.00 | 3/8-16 UNC |
| 20,000-50,000 | 7.00 | 0.97 | 3.75 | 5.50 | 0.75 | 1.62 | 5/8-11 UNC |
| 60,000-100,000 | 8.00 | 1.46 | 4.25 | 6.50 | 0.75 | 1.88 | 3/4-16 UNF |
| 150,000-200,000 | 10.00 | 1.94 | 5.53 | 8.00 | 1.00 | 2.25 | 1-14 UNS |
| 250,000-450,000 | 11.00 | 2.94 | 7.75 B.C. | 9.00 | 1.00 | 1.00 | 1-1/4-12 UNF |



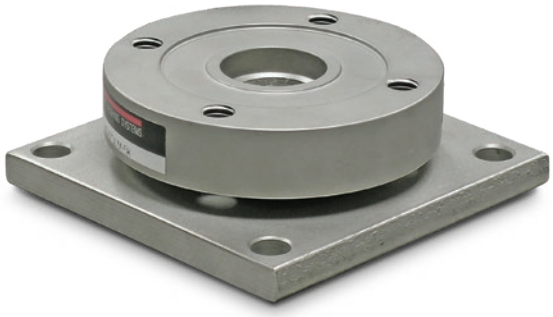
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# RL9000TWM-HT

Tank, Hopper and Vessel Weigh Module



*Picture is a representation of actual product.*

The RL9000TWM-HT is the latest addition to the popular RL9000TWM Series weigh module. The RL9000TWM-HT is a high temperature version that is designed to operate in temperatures up to 400°F.

The integral 25 ft of FEP cable complements the RL9000TWM-HT weigh module.

## Specifications

**Full Scale Output:**
3 (±- 0.1%) mV/V

**Bridge Resistance:**
700 ohms

**Material/Finish:**
Stainless steel

**Safe Overload:**
150% Full scale

**Non-linearity:**
0.05% FS

**Non-repeatability:**
0.02% FS

**Rated Excitation:**
5-10 V DC

**Operating Temperature:**
0° to 400° F

**Insulation Resistance:**
5,000 megohms

**Seal Type:**
Welded seal IP67

**Cable Length:**
25 ft FEP Jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited

## Standard Features

- Capacities: 1000-50,000 lb
- Very low profile design
- 3mV/V output
- Self-centering
- Self-checking assembly
- Offers 100% side load, 100% uplift and 150% safe load and 300% ultimate overload protection
- Stainless steel construction
- Welded seal
- Weighs accurately with as much as a 3° non-parallel load
- Integral 25 ft FEP cable

## Optional Features

- Stainless steel top plates
- Higher capacities available upon request

## Applications

- Tank, hopper, or vessel weighing
- High temperature applications

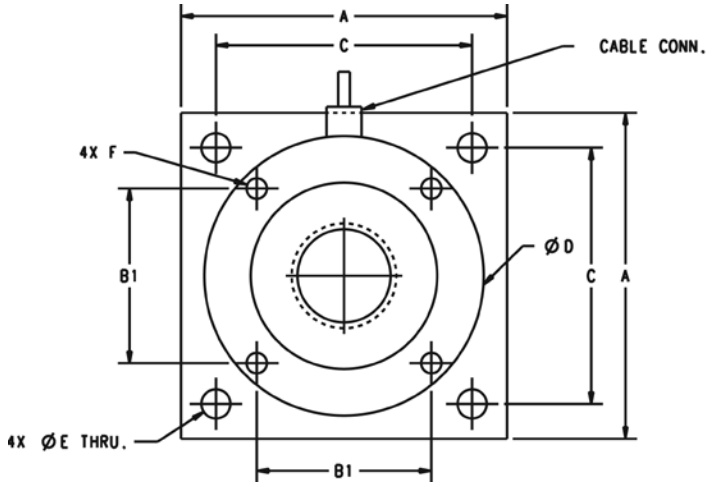


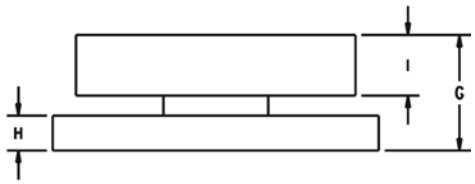


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# RL9000TWM-HT

Tank, Hopper and Vessel Weigh Module




## Dimensions

| Rated Capacity | A | B1 | C | D | E | F | G | H | I | Conduit Adapter |
|---|---|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | | | |
| 1,000-10,000 | 4.00 | 2.00 | 3.25 | 3.50 | 0.40 | 3/8-16 UNC | 1.35 | 0.375 | 0.75 | — |
| 15,000 | 4.00 | 2.00 | 3.25 | 3.50 | 0.40 | 3/8-16 UNC | 1.60 | 0.625 | 0.75 | — |
| 20,000-50,000 | 7.00 | 3.75 | 5.50 | 6.00 | 0.63 | 1/2-13 UNC | 2.48 | 0.750 | 1.30 | 1/2-14NPT |

## Order Information

| Load Rating (per module) | Part# | Price |
|---|---|---|
| **Single Module** | | |
| 1,000 lb | **117050** | $1,045.00 |
| 2,500 lb | **117051** | $1,045.00 |
| 5,000 lb | **117052** | $1,045.00 |
| 10,000 lb | **117140** | $1,045.00 |
| 15,000 lb | **117053** | $1,045.00 |
| 20,000 lb | **117054** | $1,755.00 |
| 25,000 lb | **117055** | $1,755.00 |
| 35,000 lb | **117056** | $1,755.00 |
| 50,000 lb | **117057** | $1,755.00 |
| **Top Plates (Stainless Steel) with bolts** | | |
| 1,000 lb-15,000 lb | **91207** | $115.00 |
| 20,000 lb-50,000 lb | **91210** | $275.00 |
| **Top Plates (Mild Steel) with bolts** | | |
| 1,000 lb-15,000 lb | **124758** | $55.00 |
| 20,000 lb-50,000 lb | **125141** | $115.00 |



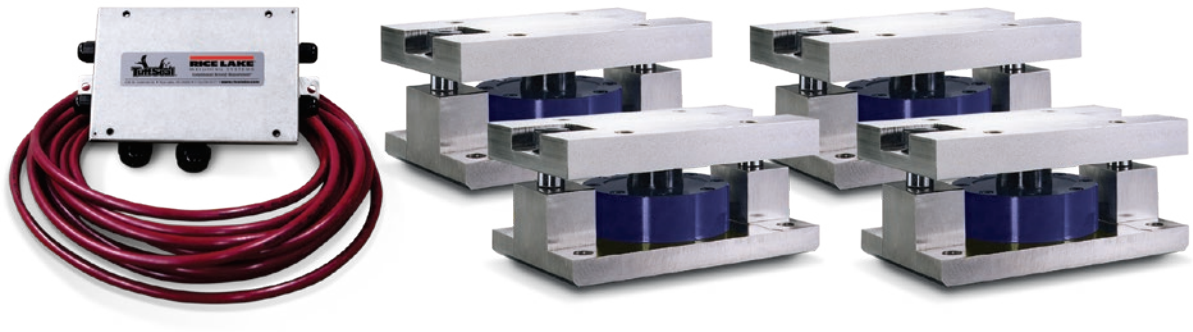
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# RL2200 Series

Tank, Hopper and Vessel Weighing Assembly



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product*

The RL2200 Series mounts are ideal for use in tank, hopper, vessel and many other applications. The low-profile design allows for economical solutions in a competitive marketplace. This rugged, high-precision mount is designed for easy installation and does not require check rods or other stabilizing hardware. The RL2200 mount has the added feature of self centering, allowing for side loads without sacrificing performance.

## Specifications

**Full Scale Output:**
4.0 mV/V, 2.0 mV/V (2500 lb)

**Bridge Resistance:**
350 ohms nominal

**Material/Finish:**
High-alloy steel, painted

**Safe Overload:**
150% Full Scale

**Rated Excitation:**
5-10 VDC (20 V maximum)

**Nonlinearity:**
0.05% Full Scale

**Hysteresis:**
0.03% Full Scale

**Temperature:**
Compensated range:
15°F to 115°F/-9°C to 46°C

**Insulation Resistance:**
5,000 megohms

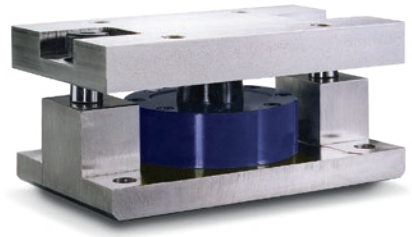
**Seal Type:**
Environmentally sealed

***Cable Length:**
30 ft/9.1 m

**Cable Color Code:**
Red + Excitation
Black – Excitation
White + Signal
Green – Signal

**Warranty:**
Two-year limited warranty

**Compression load application*



*Assembly with integral RL2200 compression disk load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL2200 high-alloy, zinc-plated steel mounting assemblies
- Three or four RL2200 compression disk load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities: 2500-50,000 lb (1134-22,680 kg)
- Low-profile design
- High 4 mV/V output (2 mV/V, 2500 lb)
- Self-centering in all directions—able to withstand excessive side loads
- Self-checking assembly

## Applications

- Tank, hopper or vessel weighing
- Belt or roller conveyors
- Scale platforms and screw feeders

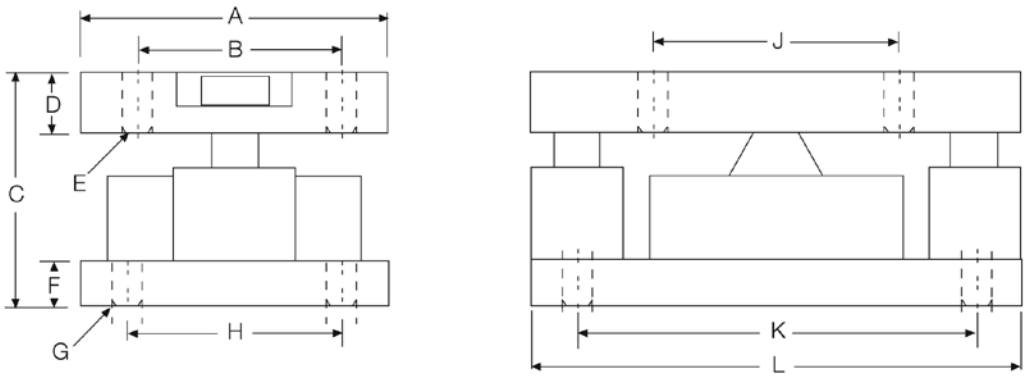




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# RL2200 Series

Tank, Hopper and Vessel Weighing Assembly




## Dimensions

| Rated Capacity | A | B | C | D | E | F | G | H | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 2,500-10,000 | 5.00 | 3.50 | 4.00 | 1.00 | 0.52 | 1.0 | 0.52 | 3.50 | 4.00 | 6.50 | 8.00 |
| 25,000-50,000 | 6.00 | 4.50 | 5.00 | 1.25 | 0.78 | 1.0 | 0.78 | 4.50 | 5.00 | 7.75 | 10.0 |
| **kg/mm** | | | | | | | | | | | |
| 1,134.0-4,536.0 | 127.0 | 88.9 | 101.6 | 25.4 | 13.2 | 19.0 | 13.2 | 88.9 | 101.6 | 165.1 | 203.2 |
| 11,340.0-22,679.6 | 152.4 | 114.3 | 127.0 | 31.7 | 19.8 | 25.4 | 19.8 | 114.3 | 127.0 | 196.8 | 254.0 |

## Order Information

| Load Rating (Per Module) | | Part# | Price |
|---|---|---|---|
| **Single Module** | | | |
| 2,500 lb | 1,134 kg | **76656** | $1,680.00 |
| 5,000 lb | 2,268 kg | **45849** | $1,680.00 |
| 10,000 lb | 4,536 kg | **45848** | $1,680.00 |
| 25,000 lb | 11,340 kg | **45847** | $2,260.00 |
| 50,000 lb | 22,680 kg | **45846** | $2,260.00 |
| **3-Module Kit** | | | |
| 2,500 lb | 1,134 kg | **76897** | $5,030.00 |
| 5,000 lb | 2,268 kg | **42811** | $5,030.00 |
| 10,000 lb | 4,536 kg | **42812** | $5,030.00 |
| 25,000 lb | 11,340 kg | **42813** | $6,485.00 |
| 50,000 lb | 22,680 kg | **42814** | $6,485.00 |
| **4-Module Kit** | | | |
| 2,500 lb | 1,134 kg | **76898** | $6,645.00 |
| 5,000 lb | 2,268 kg | **42815** | $6,645.00 |
| 10,000 lb | 4,536 kg | **42816** | $6,645.00 |
| 25,000 lb | 11,340 kg | **42817** | $7,695.00 |
| 50,000 lb | 22,680 kg | **42818** | $7,695.00 |

## Replacement Load Cell Order Information

| Load Rating (Per Module) | | Part# | Price |
|---|---|---|---|
| 2,500 lb | 1,134 kg | **76654** | $1,250.00 |
| 5,000 lb | 2,268 kg | **45708** | $1,250.00 |
| 10,000 lb | 4,536 kg | **45709** | $1,250.00 |
| 25,000 lb | 11,340 kg | **45710** | $1,575.00 |
| 50,000 lb | 22,680 kg | **45711** | $1,575.00 |



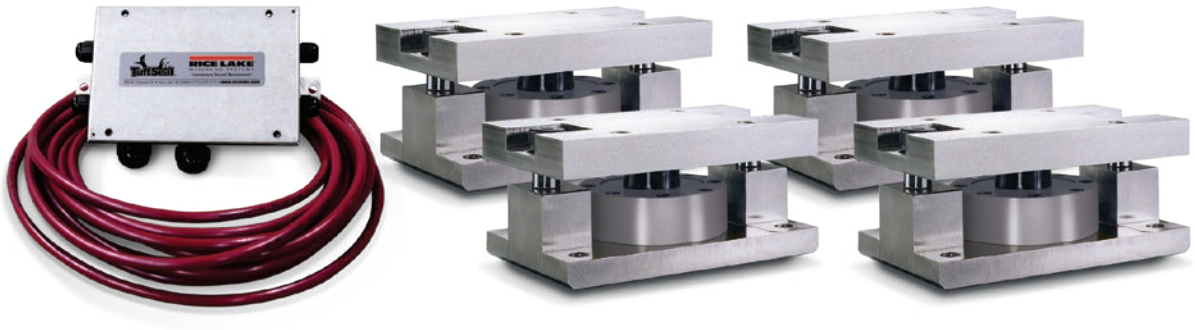
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# RL2200 SS Series

Stainless Steel, Tank, Hopper and Vessel Weighing Assembly



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RL2200 SS Series mounts are ideal for use in tank, hopper, vessel and many other applications. The low-profile design allows for economical solutions in a competitive marketplace. This rugged, high-precision mount is designed for easy installation and does not require check rods or other stabilizing hardware. The RL2200 SS mount has the added feature of self centering, allowing for side loads without sacrificing performance.

## Specifications

**Full Scale Output:**
4.0 mV/V, 2.0 mV/V (2,500 lb)

**Bridge Resistance:**
350 ohms nominal

**Material/Finish:**
Stainless steel

**Safe Overload:**
150% Full Scale

**Rated Excitation:**
5-10 VDC (20 V maximum)

**Nonlinearity:**
0.05% Full Scale

**Hysteresis:**
0.03% Full Scale

**Temperature:**
Compensated range:
15°F to 115°F/9°C to 46°C

**Insulation Resistance:**
5,000 megohms

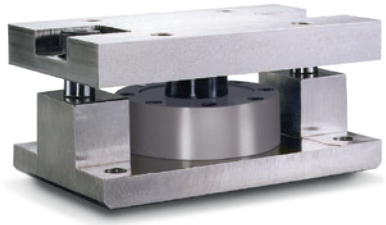
**Seal Type:**
Hermetically sealed, IP66/68

***Cable Length:**
30 ft/9.1 m

**Cable Color Code:**
Red + Excitation
Black – Excitation
White + Signal
Green – Signal

**Warranty:**
Two-year limited warranty

**Compression load application*



*Assembly with integral RL2200 SS compression disk load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL2200 stainless steel mounting assemblies
- Three or four RL2200 SS stainless steel, hermetically sealed, compression disk load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Applications

- Tank, hopper or vessel weighing
- Belt or roller conveyors
- Scale platforms and screw feeders

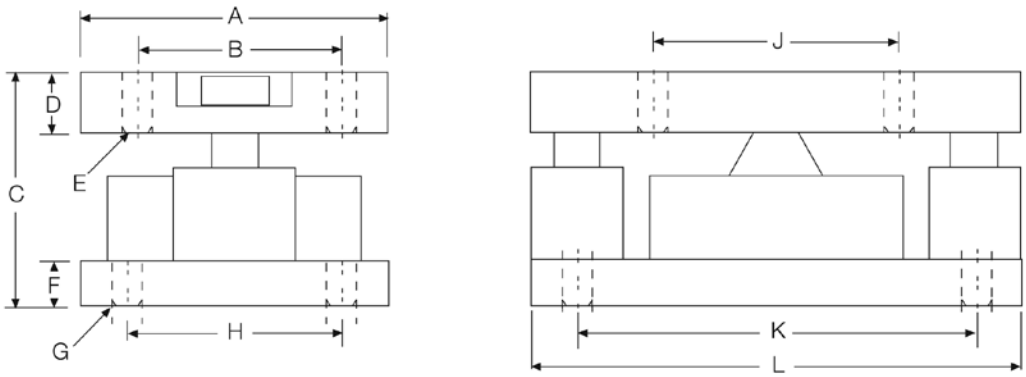




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# RL2200 SS Series

Stainless Steel, Tank, Hopper and Vessel Weighing Assembly




## Dimensions

| Rated Capacity | A | B | C | D | E | F | G | H | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 2,500-10,000 | 5.00 | 3.50 | 4.00 | 1.00 | 0.52 | 1.00 | 0.52 | 3.50 | 4.00 | 6.50 | 8.00 |
| 25,000-50,000 | 6.00 | 4.50 | 5.00 | 1.25 | 0.78 | 1.00 | 0.78 | 4.50 | 5.00 | 7.75 | 10.00 |
| **kg/mm** | | | | | | | | | | | |
| 1,134.0-4,536.0 | 127.0 | 88.9 | 101.6 | 25.4 | 13.2 | 19.0 | 13.2 | 88.9 | 101.6 | 165.1 | 203.2 |
| 11,340.0-22,679.6 | 152.4 | 114.3 | 127.0 | 31.7 | 19.8 | 25.4 | 19.8 | 114.3 | 127.0 | 196.8 | 254.0 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module** | | | |
| 2,500 lb | 1,134 kg | **76657** | $2,435.00 |
| 5,000 lb | 2,268 kg | **45845** | $2,435.00 |
| 10,000 lb | 4,536 kg | **45844** | $2,435.00 |
| 25,000 lb | 11,340 kg | **45843** | $4,115.00 |
| 50,000 lb | 22,680 kg | **45842** | $4,115.00 |
| **3-Module Kit** | | | |
| 2,500 lb | 1,134 kg | **76899** | $6,915.00 |
| 5,000 lb | 2,268 kg | **46478** | $6,915.00 |
| 10,000 lb | 4,536 kg | **46479** | $6,915.00 |
| 25,000 lb | 11,340 kg | **46480** | $12,050.00 |
| 50,000 lb | 22,680 kg | **46481** | $12,050.00 |
| **4-Module Kit** | | | |
| 2,500 lb | 1,134 kg | **76900** | $9,145.00 |
| 5,000 lb | 2,268 kg | **46482** | $9,145.00 |
| 10,000 lb | 4,536 kg | **46483** | $9,145.00 |
| 25,000 lb | 11,340 kg | **46484** | $15,715.00 |
| 50,000 lb | 22,680 kg | **46485** | $15,715.00 |

## Replacement Load Cell Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| 2,500 lb | 1,134 kg | **76655** | $1,475.00 |
| 5,000 lb | 2,268 kg | **45712** | $1,475.00 |
| 10,000 lb | 4,536 kg | **45713** | $1,475.00 |
| 25,000 lb | 11,340 kg | **45714** | $2,420.00 |
| 50,000 lb | 22,680 kg | **45715** | $2,420.00 |



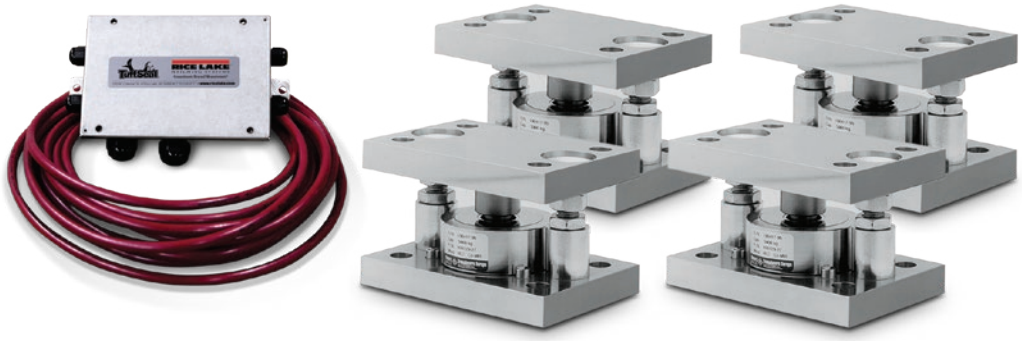
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# RLC

Stainless Steel Weigh Modules, VPG Revere



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RLC self-aligning silo mount, together with the RLC load cell family, are an ideal solution for process control, batch weighing, silo/hopper and belt scale applications. The RLC mount incorporates a removable rocker pin design that uses hardened stainless steel components on all load-bearing surfaces. The fully stainless steel construction guarantees long-term reliability.



*Module with hermetically sealed RLC compression canister load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RLC stainless steel compression mounts
- Three or four RLC stainless steel hermetically sealed compression disk load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 0.5-5 t (1,102.3-11,023.1 lb)
- Matched output load cells eliminate trimming
- 304 stainless steel construction
- Rocker pin design allows movement in all directions
- Hermetically sealed, IP66/68 stainless steel load cells
- Easy load cell replacement
- Integral jacking/shipping bolts

## Applications

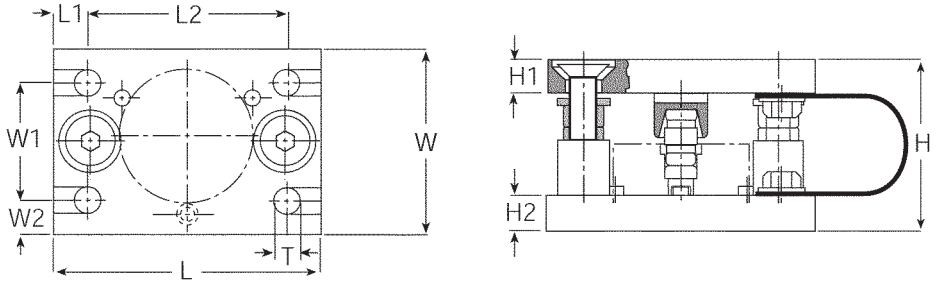
- Medium-capacity tanks, bins and hoppers
- Washdown applications
- Process control and batch weighing

## Load Cell Certifications





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## Dimensions

| Rated Capacity | H | H1 | H2 | L | L1 | L2 | T | W | W1 | W2 |
|---|---|---|---|---|---|---|---|---|---|---|
| **ton/mm** | | | | | | | | | | |
| 0.5-1 | 80.00 | 20.00 | 15.00 | 150.00 | 15.00 | 120.00 | 14 (top plate) | 100.00 | 70.00 | 15.00 |
| 2-5 | 100.00 | 20.00 | 20.00 | 160.00 | 20.00 | 120.00 | 13.8 (bottom plate) | 110.00 | 70.00 | 20.00 |
| **lb/in** | | | | | | | | | | |
| 1,102.3-2,204.6 | 2.96 | 0.79 | 0.59 | 5.91 | 0.59 | 4.72 | 0.55 (top plate) | 3.94 | 2.76 | 0.59 |
| 4,409.2-11,023.1 | 3.94 | 0.79 | 0.79 | 6.30 | 0.79 | 4.72 | 0.54 (bottom plate) | 4.33 | 2.76 | 0.79 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Includes Load Cell)** | | | |
| 0.5 t | 1,102.3 lb | **36401** | $1,130.00 |
| 1 t | 2,204.6 lb | **36402** | $1,130.00 |
| 2 t | 4,409.2 lb | **36403** | $1,305.00 |
| 3.5 t | 7,717.5 lb | **36404** | $1,305.00 |
| 5 t | 11,023.1 lb | **36405** | $1,305.00 |
| **3-Module Kit** | | | |
| 0.5 t | 1,102.3 lb | **36406** | $3,665.00 |
| 1 t | 2,204.6 lb | **36407** | $3,665.00 |
| 2 t | 4,409.2 lb | **36408** | $3,835.00 |
| 3.5 t | 7,717.5 lb | **36409** | $3,835.00 |
| 5 t | 11,023.1 lb | **36410** | $3,835.00 |
| **4-Module Kit** | | | |
| 0.5 t | 1,102.3 lb | **36411** | $4,795.00 |
| 1 t | 2,204.6 lb | **36412** | $4,795.00 |
| 2 t | 4,409.2 lb | **36413** | $5,115.00 |
| 3.5 t | 7,717.5 lb | **36414** | $5,115.00 |
| 5 t | 11,023.1 lb | **36415** | $5,115.00 |

## Replacement Rocker Pin Set*

| Load Rating (Per Module) | Part # | Price |
|---|---|---|
| 250 kg-1 t | **170875** | $115.00 |
| 2 t-5 t | **170876** | $115.00 |
| 10 t | **170877** | $115.00 |

**Kit includes upper cup, rocker pin and grease*



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# 220 Universal Mount

Stainless Steel Weigh Modules, VPG Tedea-Huntleigh



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product*

The 220 Universal Mount is designed to be used with the VPG Tedea-Huntleigh Model 220 load cell. The mount incorporates built-in jacking bolts to prevent damage to the load cell during installation. Its stainless steel construction is designed to be used in washdown applications.

## Specifications

**Full Scale Output:**
2.0 mV/V

**Bridge Resistance:**
1,000 ohms, nominal

**Material/Finish:**
Stainless Steel

**Operating Temperature Range:**
14°F to 104°F/-10°C to 40°C

**Seal Type:**
Hermetically sealed, IP68

**Safe Overload:**
150% at center loading point, full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.020% Full scale

**Insulation Resistance:**
2,000 megohms

**Cable Length:**
5 m (5,000 kg), 10 m (10,000-20,000 kg) 20 m (30,000 kg)

**Cable Color Code:**
Blue + Excitation
Black – Excitation
White + Signal
Red – Signal
Green + Sense
Grey – Sense

**Warranty:**
One-year limited warranty



*Module with hermetically sealed 220 compression load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four 220 stainless steel compression mounts
- Three or four 220 stainless steel hermetically sealed compression disk load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 5,000-30,000 kg (11,023.1-66,139.0 lb)
- Matched output load cells eliminate trimming
- 304 stainless steel construction
- Hermetically sealed, IP68 stainless steel load cells
- Easy load cell replacement
- Integral jacking/shipping bolts

## Applications

- Medium- to high-capacity tanks, bins and hoppers
- Washdown applications
- Process control and batch weighing

## Load Cell Certifications

FM APPROVED OIML

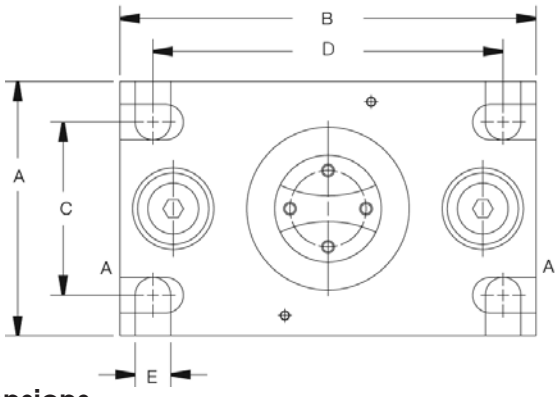


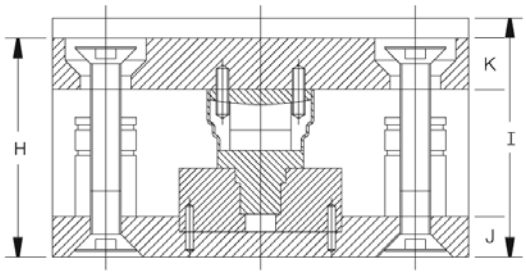


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# 220 Universal Mount

Stainless Steel Weigh Modules, VPG Tedea-Huntleigh




## Dimensions

| Rated Capacity | A | B | C | D | E | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | |
| 5,000-10,000 | 127.00 | 203.00 | 90.00 | 170.00 | 18.00 | 107.00 | 118.00 | 19.05 | 25.4 |
| 20,000/30,000 | 152.00 | 245.00 | 115.00 | 208.00 | 24.00 | 148.00 | 156.00 | 31.75 | 25.4 |
| **lb/in** | | | | | | | | | |
| 11,023.1 | 5.00 | 8.00 | 3.54 | 6.70 | 0.71 | 4.21 | 4.65 | 0.75 | 1.0 |
| 44,092.7/66,139.0 | 5.98 | 9.65 | 4.53 | 8.19 | 0.94 | 5.83 | 6.14 | 1.28 | 1.0 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **3-Module Kit (Includes Load Cell)** | | | |
| 5,000 kg | 11,023.1 lb | **66208** | $5,995.00 |
| 10,000 kg | 22,046.3 lb | **66209** | $5,995.00 |
| 20,000 kg | 44,092.7 lb | **66210** | $6,795.00 |
| 30,000 kg | 66,139.0 lb | **66211** | $6,795.00 |
| **4-Module Kit (Includes Load Cell)** | | | |
| 5,000 kg | 11,023.1 lb | **66212** | $7,895.00 |
| 10,000 kg | 22,046.3 lb | **66213** | $7,895.00 |
| 20,000 kg | 44,092.7 lb | **66214** | $9,125.00 |
| 30,000 kg | 66,139.0 lb | **66215** | $9,125.00 |

## Replacement Mount Parts

| Load Rating (Per Module) | Part # | Price |
|---|---|---|
| Saddle 5t-10t | **170879** | $115.00 |
| Rolling cylinder 5t-10t | **170882** | $95.00 |
| Load adaptor 5t | **170880** | $100.00 |
| Load adaptor 10t | **170881** | $145.00 |
| Rubber boot 5t-10t | **171211** | $30.00 |
| Saddle 20t-30t | **170884** | $115.00 |
| Rolling cylinder 20t-30t | **170885** | $50.00 |
| Load adaptor 20t-30t | **170883** | $95.00 |
| Rubber boot 20t-30t | **171212** | $27.00 |



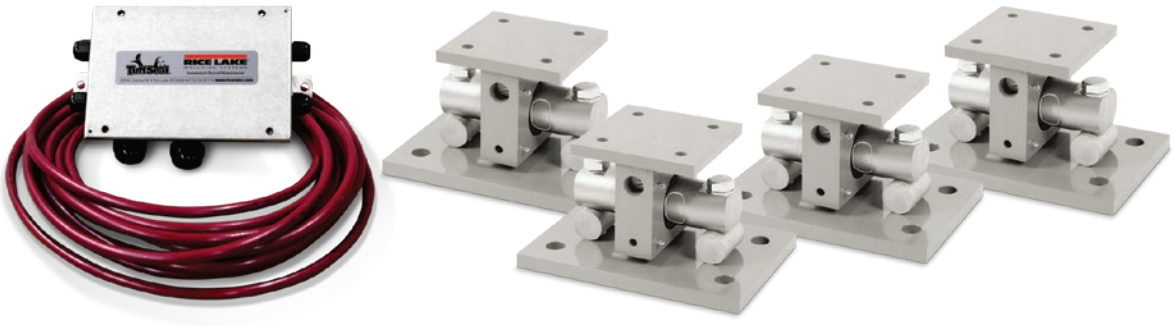




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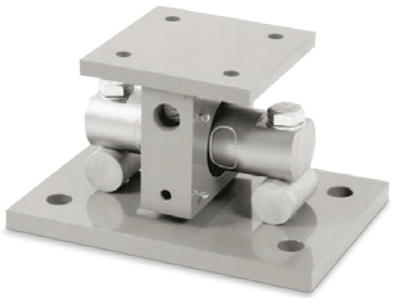
# EZ Mount 1

Mild Steel Weigh Modules, Rice Lake Weighing Systems



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The EZ Mount 1 Series weigh modules utilize the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition. The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations. NTEP Certified and FM approved RL70000 Series load cells give you accuracy and dependability in many applications, including intrinsically safe and explosion proof areas.



*Module with RL70000 double-ended shear beam load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four EZ Mount 1 mild steel compression mounts
- Three or four RL70000 double-ended shear beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 5000-250,000 lb (2268-113,398.1 kg)
- NTEP Certified load cells
- Unique sliding pin design compensates for thermal expansion/contraction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded double-ended shear beam design
- Low-profile design
- Painted mild steel construction

## Optional Features

- Kits available with VPG® Revere 5103 load cell, capacities in 5,000 lb-150,000 lb (2,268.0 kg-68,039.0 kg)

## Applications

- Medium- to heavy-capacity tank and hopper weighing applications

## Load Cell Certifications

FM APPROVED

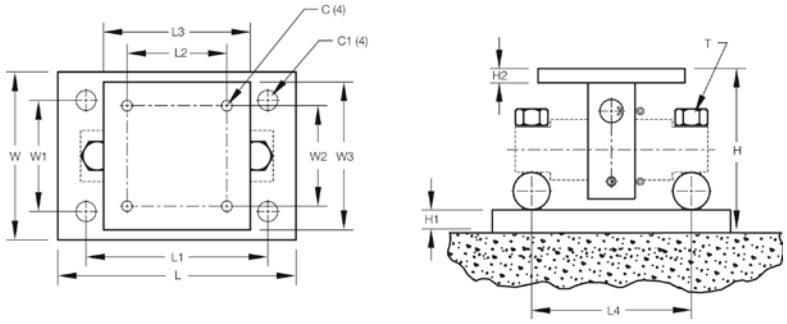




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# EZ Mount 1

Mild Steel Weigh Modules, Rice Lake Weighing Systems




## Dimensions

| Rated Capacity | C | C1 | H | H1 | H2 | L | L1 | L2 | L3 | L4 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | |
| 5,000-20,000 | 0.56 | 1.06 | 5.31 | 0.75 | 0.50 | 11.00 | 8.00 | 3.00 | 6.00 | 6.87 | 5/8-18 UNF | 7.50 | 4.00 | 3.00 | 6.00 |
| 30,000-60,000 | 0.68 | 1.19 | 8.43 | 1.00 | 0.75 | 15.00 | 11.50 | 5.12 | 8.00 | 8.50 | 1-14 UNS | 10.00 | 6.00 | 5.12 | 8.00 |
| 100,000 | 0.81 | 1.38 | 10.37 | 1.25 | 1.25 | 18.00 | 14.00 | 7.50 | 10.00 | 9.50 | 1-14 UNS | 12.00 | 9.00 | 7.50 | 10.00 |
| 150,000 | 0.81 | 1.38 | 10.37 | 1.25 | 1.25 | 18.00 | 14.00 | 7.50 | 10.00 | 9.50 | 1-14 UNS | 12.00 | 9.00 | 7.50 | 10.00 |
| 200,000-250,000 | 1.06 | 1.88 | 16.75 | 2.00 | 2.00 | 26.00 | 20.00 | 9.00 | 12.00 | 13.00 | 1 1/2-12 UNS | 12.00 | 6.00 | 9.00 | 12.00 |
| **kg/mm** | | | | | | | | | | | | | | | |
| 2,268.0-9,071.9 | 14.2 | 26.9 | 134.9 | 19.1 | 12.7 | 279.4 | 203.2 | 76.2 | 152.4 | 174.5 | 5/8-18 UNF | 190.5 | 101.6 | 76.2 | 152.4 |
| 13,607.8-27,215.5 | 17.3 | 30.2 | 214.1 | 25.4 | 19.1 | 381.0 | 292.1 | 130.0 | 203.2 | 215.9 | 1-14 UNS | 254.0 | 152.4 | 130.1 | 203.2 |
| 45,359.2 | 20.6 | 35.1 | 263.4 | 31.8 | 31.8 | 457.2 | 355.6 | 190.5 | 254.0 | 241.3 | 1-14 UNS | 304.8 | 228.6 | 190.5 | 254.0 |
| 68,039.0 | 20.6 | 35.1 | 263.4 | 31.8 | 31.8 | 457.2 | 355.6 | 190.5 | 254.0 | 241.3 | 1-14 UNS | 304.8 | 228.6 | 190.5 | 254.0 |
| 90,718.5-113,398.1 | 26.9 | 47.8 | 425.5 | 50.8 | 50.8 | 660.4 | 508.0 | 228.6 | 304.8 | 330.2 | 1 1/2-12 UNS | 304.8 | 152.4 | 228.6 | 304.8 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 5,000 lb-20,000 lb | 2,268.0 kg-9,071.9 kg | **17823** | $310.00 |
| 30,000 lb-60,000 lb | 13,607.8 kg-27,215.5 kg | **17824** | $835.00 |
| 100,000 lb | 45,359.2 kg | **17850** | $1,150.00 |
| 150,000 lb | 68,039.0 kg | **29012** | $1,150.00 |
| 200,000 lb-250,000 lb | 90,719.0 kg-113,398.4 kg | **26068** | $2,620.00 |
| **3-Module Kit** | | | |
| 5,000 lb | 2,268.0 kg | **18163** | $2,935.00 |
| 10,000 lb | 4,535.9 kg | **18164** | $2,935.00 |
| 20,000 lb | 9,071.9 kg | **18165** | $2,935.00 |
| 30,000 lb | 13,607.8 kg | **32164** | $4,680.00 |
| 40,000 lb | 18,143.7 kg | **32167** | $4,680.00 |
| 50,000 lb | 22,679.6 kg | **18166** | $4,680.00 |
| 60,000 lb | 27,215.5 kg | **18167** | $4,680.00 |
| 100,000 lb | 45,359.2 kg | **18168** | $7,575.00 |
| 150,000 lb | 68,040.0 kg | **43290** | $7,575.00 |
| **4-Module Kit** | | | |
| 5,000 lb | 2,268.0 kg | **18169** | $3,810.00 |
| 10,000 lb | 4,535.9 kg | **18170** | $3,810.00 |
| 20,000 lb | 9,071.9 kg | **18171** | $3,810.00 |
| 30,000 lb | 13,607.8 kg | **32165** | $5,910.00 |
| 40,000 lb | 18,143.7 kg | **32166** | $5,910.00 |
| 50,000 lb | 22,679.6 kg | **18172** | $5,910.00 |
| 60,000 lb | 27,215.5 kg | **18173** | $5,910.00 |
| 100,000 lb | 45,359.2 kg | **18174** | $9,840.00 |
| 150,000 lb | 68,040.0 kg | **43291** | $9,840.00 |

## VPG Revere 5103 Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **3-Module Kit** | | | |
| 5,000 lb | 2,268.0 kg | **18175** | $3,035.00 |
| 10,000 lb | 4,535.9 kg | **18176** | $3,035.00 |
| 20,000 lb | 9,071.9 kg | **18177** | $3,035.00 |
| 30,000 lb | 13,607.8 kg | **32169** | $4,780.00 |
| 40,000 lb | 18,143.7 kg | **32171** | $4,780.00 |
| 50,000 lb | 22,679.6 kg | **18178** | $4,930.00 |
| 60,000 lb | 27,215.5 kg | **18179** | $4,930.00 |
| 100,000 lb | 45,359.2 kg | **18180** | $7,675.00 |
| 150,000 lb | 68,039.0 kg | **18181** | $7,675.00 |
| **4-Module Kit** | | | |
| 5,000 lb | 2,268.0 kg | **18182** | $3,910.00 |
| 10,000 lb | 4,535.9 kg | **18183** | $3,910.00 |
| 20,000 lb | 9,071.9 kg | **18184** | $3,910.00 |
| 30,000 lb | 13,607.8 kg | **32170** | $6,040.00 |
| 40,000 lb | 18,143.7 kg | **32172** | $6,040.00 |
| 50,000 lb | 22,679.6 kg | **18185** | $6,210.00 |
| 60,000 lb | 27,215.5 kg | **18186** | $6,210.00 |
| 100,000 lb | 45,359.2 kg | **18187** | $10,000.00 |
| 150,000 lb | 68,039.0 kg | **18188** | $10,000.00 |
| **Dummy Load Cells** | | | |
| 5,000 lb-20,000 lb | | **33749** | $78.00 |
| 30,000 lb-60,000 lb | | **74016** | $100.00 |
| 100,000 lb | | **94175** | $157.00 |
| 150,000 lb | | **158715** | $235.00 |
| **Grounding Kit** | | | |
| 5,000-60,000, includes ground strap and mounting hardware per mount | | **126419** | $18.00 |



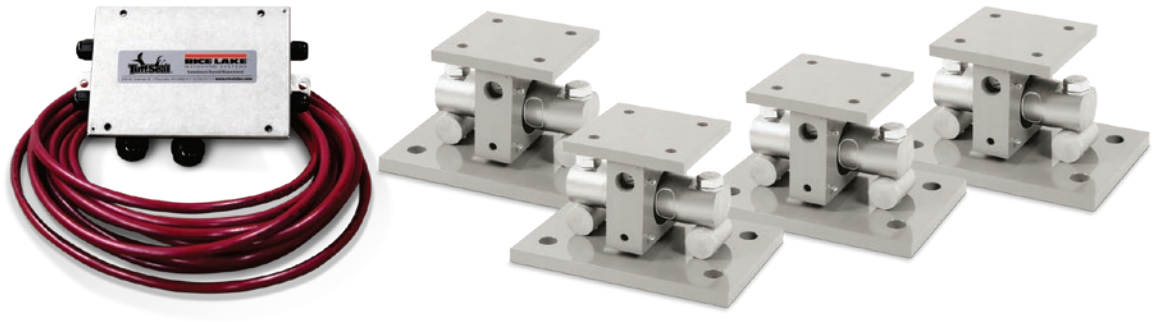
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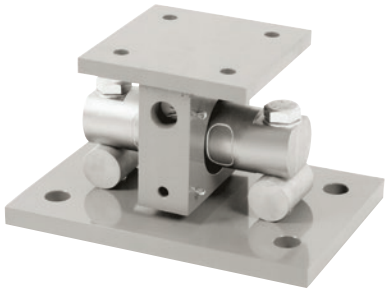
# EZ Mount 1 SS

Stainless Steel Weigh Modules, Rice Lake Weighing Systems



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The EZ Mount 1 Series weigh module utilizes the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition. The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations. FM approved RL70000 SS Series load cells give you accuracy and dependability in many applications, including intrinsically safe and explosion proof areas.



*Module with RL70000 SS double-ended shear beam load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four EZ Mount 1 stainless steel compression mounts
- Three or four RL70000 SS stainless steel double-ended shear beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 5000-150,000 lb (2268-60,039.0 kg)
- Unique sliding pin design compensates for thermal expansion/contraction
- NTEP Certified load cells (10 k - 100 k)
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded double-ended shear beam design
- Low-profile design
- 304 stainless steel construction

## Optional Features

- Kits available with VPG-Revere 9103 load cell, capacities in 5,000 lb-150,000 lb (2268.0 kg-68,039.0 kg)

## Applications

- Medium to heavy-capacity tank and hopper weighing applications

## Load Cell Certifications

FM APPROVED

NTEP

*NTEP Excluding 5 K and 150 K*

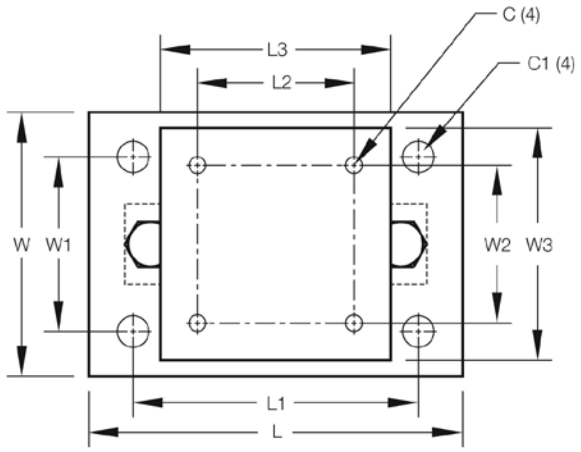


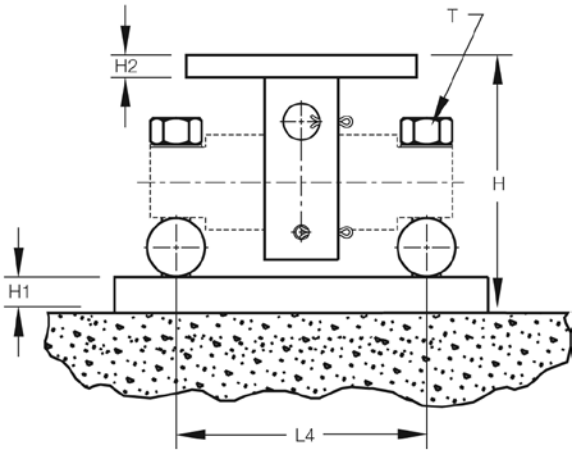


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# EZ Mount 1 SS

Stainless Steel Weigh Modules, Rice Lake Weighing Systems




## Dimensions

| Rated Capacity | C | C1 | H | H1 | H2 | L | L1 | L2 | L3 | L4 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | |
| 5,000-20,000 | 0.56 | 1.06 | 5.31 | 0.75 | 0.50 | 11.00 | 8.00 | 3.00 | 6.00 | 6.87 | 5/8-18 UNF | 7.50 | 4.00 | 3.00 | 6.00 |
| 30,000-60,000 | 0.68 | 1.19 | 8.43 | 1.00 | 0.75 | 15.00 | 11.50 | 5.12 | 8.00 | 8.50 | 1-14 UNS | 10.00 | 6.00 | 5.12 | 8.00 |
| 100,000 | 0.81 | 1.38 | 10.37 | 1.25 | 1.25 | 18.00 | 14.00 | 7.50 | 10.00 | 9.50 | 1-14 UNS | 12.00 | 9.00 | 7.50 | 10.00 |
| 150,000 | 0.81 | 1.38 | 10.37 | 1.25 | 1.25 | 18.00 | 14.00 | 7.50 | 10.00 | 9.50 | 1-14 UNS | 12.00 | 9.00 | 7.50 | 10.00 |
| **kg/mm** | | | | | | | | | | | | | | | |
| 2,268.0-9,071.9 | 14.2 | 26.9 | 134.9 | 19.1 | 12.7 | 279.4 | 203.2 | 76.2 | 152.4 | 174.5 | 5/8-18 UNF | 190.5 | 101.6 | 76.2 | 152.4 |
| 13,607.8-27,215.5 | 17.3 | 30.2 | 214.1 | 25.4 | 19.1 | 381.0 | 292.1 | 130.0 | 203.2 | 215.9 | 1-14 UNS | 254.0 | 152.4 | 130.1 | 203.2 |
| 45,359.2 | 20.6 | 35.1 | 263.4 | 31.8 | 31.8 | 457.2 | 355.6 | 190.5 | 254.0 | 241.3 | 1-14 UNS | 304.8 | 228.6 | 190.5 | 254.0 |
| 68,039.0 | 20.6 | 35.1 | 263.4 | 31.8 | 31.8 | 457.2 | 355.6 | 190.5 | 254.0 | 241.3 | 1-14 UNS | 304.8 | 228.6 | 190.5 | 254.0 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 5,000 lb-20,000 lb | 2,268.0 kg-9071.9 kg | **17943** | $760.00 |
| 30,000 lb-60,000 lb | 13,607.8 kg-27,215.5 kg | **17944** | $2,095.00 |
| 100,000 lb | 45,359.2 kg | **17945** | $3,880.00 |
| 150,000 lb | 68,039.0 kg | **29011** | $3,880.00 |
| **3-Module Kit** | | | |
| 5,000 lb* | 2,268.0 kg | **36195** | $4,445.00 |
| 10,000 lb | 4,535.9 kg | **36196** | $4,445.00 |
| 20,000 lb | 9,071.9 kg | **36197** | $4,445.00 |
| 30,000 lb | 13,607.8 kg | **36198** | $8,610.00 |
| 40,000 lb | 18,143.7 kg | **36199** | $8,610.00 |
| 50,000 lb | 22,679.6 kg | **36200** | $8,710.00 |
| 60,000 lb | 27,215.5 kg | **36201** | $8,710.00 |
| 100,000 lb | 45,359.2 kg | **36202** | $13,865.00 |
| 150,000 lb* | 68,039.0 kg | **43288** | $13,865.00 |

** Non-NTEP Certified*

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **4-Module Kit** | | | |
| 5,000 lb* | 2,268.0 kg | **36203** | $5,955.00 |
| 10,000 lb | 4,535.9 kg | **36204** | $5,955.00 |
| 20,000 lb | 9,071.9 kg | **36205** | $5,955.00 |
| 30,000 lb | 13,607.8 kg | **36206** | $11,690.00 |
| 40,000 lb | 18,143.7 kg | **36207** | $11,690.00 |
| 50,000 lb | 22,679.6 kg | **36208** | $11,965.00 |
| 60,000 lb | 27,215.5 kg | **36209** | $11,965.00 |
| 100,000 lb | 45,359.2 kg | **36210** | $18,405.00 |
| 150,000 lb* | 68,039.0 kg | **43289** | $18,405.00 |
| **Dummy Load Cells (Mild Steel)** | | | |
| 5,000 lb-20,000 lb | — | **33749** | $78.00 |
| 30,000 lb-60,000 lb | — | **74016** | $100.00 |
| 100,000 lb | — | **94175** | $157.00 |
| 150,000 lb | | **158715** | $235.00 |
| **Grounding Kit** | | | |
| 5,000 lb-60,000 lb | | **126419** | $18.00 |

*Includes ground strap and mounting hardware per mount*



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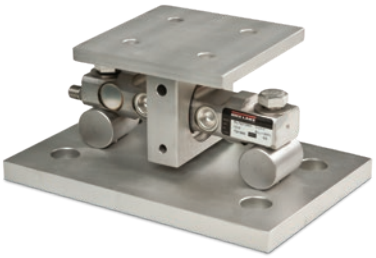
# EZ Mount 1 HE

Stainless Steel Weigh Modules, Hermetically Sealed, Rice Lake Weighing Systems



*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The EZ Mount 1 HE Series weigh modules utilize the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition. The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations. The RL72019SS Series load cells give you accuracy and dependability in any environment. Their stainless steel, hermetically sealed design also make them the ideal solution in harsh environments where moisture is present.



*Module with RL72019SS double-ended shear beam load cell.*

## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four EZ Mount 1 stainless steel compression mounts
- Three or four RL72019SS hermetically sealed stainless steel double-ended shear beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 5000-60,000 lb (2268-27,216.0 kg)
- Unique sliding pin design compensates for thermal expansion/contraction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded, double-ended shear beam design
- Low-profile design
- 304 stainless steel construction

## Applications

- Medium- to heavy-capacity tank and hopper weighing applications

## Load Cell Certifications

FM APPROVED

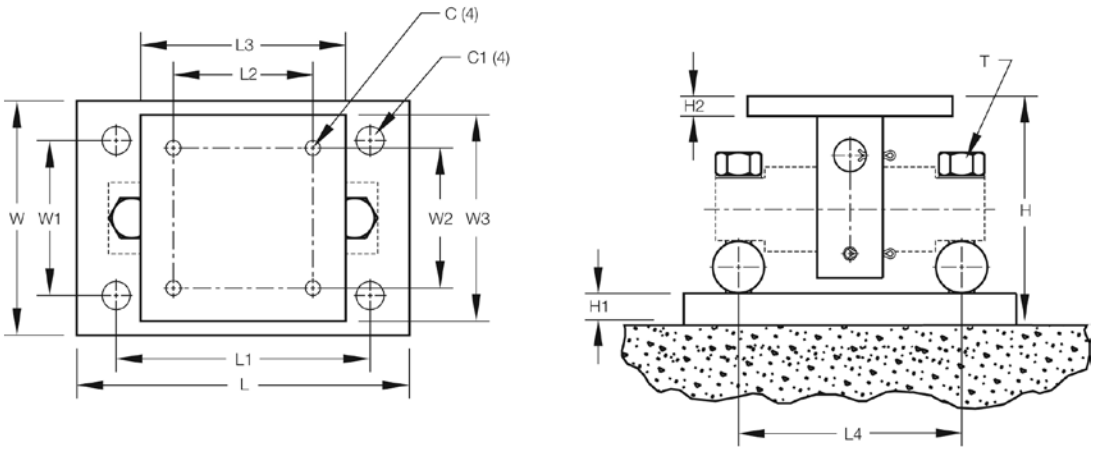




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# EZ Mount 1 HE

Stainless Steel Weigh Modules, Hermetically Sealed, Rice Lake Weighing Systems




## Dimensions

| Rated Capacity | C | C1 | H | H1 | H2 | L | L1 | L2 | L3 | L4 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | |
| 5,000-20,000 | 0.56 | 1.06 | 5.31 | 0.75 | 0.50 | 11.00 | 8.00 | 3.00 | 6.00 | 6.87 | 5/8-18 UNF | 7.50 | 4.00 | 3.00 | 6.00 |
| 30,000-60,000 | 0.68 | 1.19 | 8.43 | 1.00 | 0.75 | 15.00 | 11.50 | 5.12 | 8.00 | 8.50 | 1-14 UNS | 10.00 | 6.00 | 5.12 | 8.00 |
| **kg/mm** | | | | | | | | | | | | | | | |
| 2,268.0-9,071.9 | 14.2 | 26.9 | 134.9 | 19.1 | 12.7 | 279.4 | 203.2 | 76.2 | 152.4 | 174.5 | 5/8-18 UNF | 190.5 | 101.6 | 76.2 | 152.4 |
| 13,607.8-27,215.5 | 17.3 | 30.2 | 214.1 | 25.4 | 19.1 | 381.0 | 292.1 | 130.0 | 203.2 | 215.9 | 1-14 UNS | 254.0 | 152.4 | 130.1 | 203.2 |

*NOTES: Mounting bolts (T) may project on lower side of base plate. Foundation plate not included*

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **3-Module Kit** | | | |
| 5,000 lb | 2,268.0 kg | **46695** | $5,495.00 |
| 10,000 lb | 4,535.9 kg | **46696** | $5,495.00 |
| 20,000 lb | 9,071.9 kg | **46697** | $5,495.00 |
| 30,000 lb | 13,607.8 kg | **46698** | $10,795.00 |
| 40,000 lb | 18,143.7 kg | **46699** | $10,795.00 |
| 50,000 lb | 22,679.6 kg | **46700** | $10,795.00 |
| 60,000 lb | 27,215.5 kg | **46701** | $10,795.00 |
| **4-Module Kit** | | | |
| 5,000 lb | 2,268.0 kg | **46702** | $7,395.00 |
| 10,000 lb | 4,535.9 kg | **46703** | $7,395.00 |
| 20,000 lb | 9,071.9 kg | **46704** | $7,395.00 |
| 30,000 lb | 13,607.8 kg | **46705** | $14,100.00 |
| 40,000 lb | 18,143.7 kg | **46706** | $14,100.00 |
| 50,000 lb | 22,679.6 kg | **46707** | $14,100.00 |
| 60,000 lb | 27,215.5 kg | **46708** | $14,100.00 |
| **Dummy Load Cells (Mild Steel)** | | | |
| 5,000 lb-20,000 lb | 2,268.0 kg-9,071.9 kg | **33749** | $78.00 |
| 30,000 lb-60,000 lb | 13,607.8 kg-27,215.5 kg | **74016** | $100.00 |
| **Grounding Kit** | | | |
| 5,000 lb-60,000 lb | | **126419** | $18.00 |

*Includes ground strap and mounting hardware*

*Please contact factory for pricing and availability*

## Shims

| | Part # | Price |
|---|---|---|
| **5,000 lb–20,000 lb, Stainless Steel** | | |
| 0.0625 in | **150886** | $7.25 |
| 0.125 in | **150888** | $11.50 |
| 0.250 in | **150889** | $24.00 |
| **30,000 lb–60,000 lb, Stainless Steel** | | |
| 0.0625 in | **150890** | $12.75 |
| 0.125 in | **150891** | $20.50 |
| 0.250 in | **150892** | $57.00 |
| **100,000 lb–150,000 lb, Stainless Steel** | | |
| 0.0625 in | **150893** | $20.25 |
| 0.125 in | **150894** | $32.50 |
| 0.250 in | **150896** | $89.00 |
| **5,000 lb–20,000 lb, Mild Steel** | | |
| 0.0625 in | **150874** | $1.75 |
| 0.125 in | **150876** | $3.50 |
| 0.250 in | **150877** | $3.75 |
| **30,000 lb–60,000 lb, Mild Steel** | | |
| 0.0625 in | **150878** | $3.50 |
| 0.125 in | **150880** | $6.00 |
| 0.250 in | **150881** | $6.50 |
| **100,000 lb–150,000 lb, Mild Steel** | | |
| 0.0625 in | **150882** | $5.50 |
| 0.125 in | **150884** | $9.50 |
| 0.250 in | **150885** | $10.25 |



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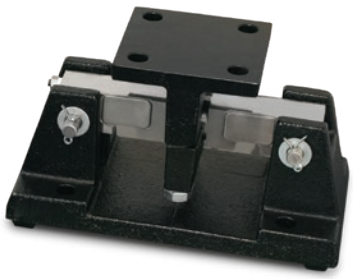
# RL1600 Series

Cast Iron Weigh Modules

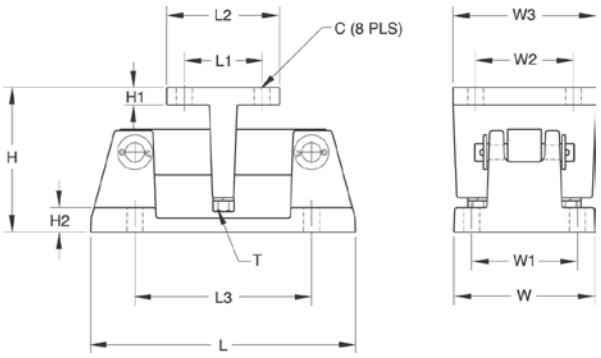


*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RL1600 Series mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium- to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.



*Cast iron module with RL75016 double-ended beam load cell.*




## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 cast iron compression mounts
- Three or four RL75016 double-ended shear beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 1000-25,000 lb (453.6-11,339.8 kg)
- Cast iron construction
- Self-checking easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended beam design, center loaded

## Optional Features

- Kits available with VPG® Sensortronics 65016 load cells, capacities (per module): 1,000 lb-25,000 lb (453.6 kg-11,339.8 kg)

## Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management

## Dimensions

| Rated Capacity | C | H | H1 | H2 | L | L1 | L2 | L3 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | |
| 1,000-5,000 | 0.56 | 5.00 | 0.50 | 0.50 | 9.31 | 2.75 | 4.00 | 6.25 | 1/2-13 UNC | 5.00 | 3.75 | 2.75 | 4.00 |
| 10,000-25,000 | 0.78 | 7.89 | 0.75 | 0.75 | 12.00 | 6.00 | 8.00 | 7.50 | 3/4-10 UNC | 8.00 | 6.00 | 6.00 | 8.00 |
| **kg/mm** | | | | | | | | | | | | | |
| 453.6-2,268.0 | 14.2 | 127.0 | 12.7 | 12.7 | 236.5 | 69.9 | 101.6 | 158.8 | 1/2-13 UNC | 127.0 | 95.3 | 69.9 | 101.6 |
| 4,535.9-11,339.8 | 19.8 | 200.4 | 19.1 | 19.1 | 304.8 | 152.4 | 203.2 | 190.5 | 3/4-10 UNC | 203.2 | 152.4 | 152.4 | 203.2 |





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## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **17964** | $157.00 |
| 10,000 lb-25,000 lb | 4,535.9 kg-11,339.8 kg | **17965** | $305.00 |
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **25663** | $2,030.00 |
| 1,500 lb | 680.4 kg | **25664** | $2,030.00 |
| 2,000 lb | 907.2 kg | **25665** | $2,030.00 |
| 2,500 lb | 1,134.0 kg | **25666** | $2,030.00 |
| 3,000 lb | 1,360.8 kg | **25667** | $2,030.00 |
| 5,000 lb | 2,268.0 kg | **25668** | $2,030.00 |
| 10,000 lb | 4,535.9 kg | **25669** | $2,655.00 |
| 15,000 lb | 6,803.9 kg | **25671** | $2,655.00 |
| 20,000 lb | 9,071.9 kg | **25672** | $2,655.00 |
| 25,000 lb | 11,339.8 kg | **25674** | $2,655.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **25675** | $2,595.00 |
| 1,500 lb | 680.4 kg | **25676** | $2,595.00 |
| 2,000 lb | 907.2 kg | **25677** | $2,595.00 |
| 2,500 lb | 1,134.0 kg | **25678** | $2,595.00 |
| 3,000 lb | 1,360.8 kg | **25679** | $2,595.00 |
| 5,000 lb | 2,268.0 kg | **25680** | $2,595.00 |
| 10,000 lb | 4,535.9 kg | **25681** | $3,425.00 |
| 15,000 lb | 6,803.9 kg | **25682** | $3,425.00 |
| 20,000 lb | 9,071.9 kg | **25683** | $3,425.00 |
| 25,000 lb | 11,339.8 kg | **25684** | $3,425.00 |

## Load Cell Upgrade

| RL75016SS Stainless Steel Load Cells |
|---|
| Three mount kits, 1,000 lb to 25,000 lb $75.00 added to list price |
| Four mount kits, 1,000 lb to 25,000 lb $100.00 added to list price |
| **RL75016WHE Stainless Steel Hermetic Load Cells** |
| Three mount kits 1,000 lb to 5,000 lb $390.00, 10 k-25 k $435.00 added to list price |
| Four mount kits 1,000 lb to 5,000 lb $520.00, 10 k-25 k $580.00 added to list price |

*Contact factory for a 50,000 lb to 75,000 lb upgrade*

## VPG Sensortronics 65016 Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **25685** | $2,385.00 |
| 1,500 lb | 680.4 kg | **25686** | $2,385.00 |
| 2,500 lb | 1,134.0 kg | **25688** | $2,385.00 |
| 5,000 lb | 2,268.0 kg | **25690** | $2,385.00 |
| 10,000 lb | 4,535.9 kg | **25691** | $3,010.00 |
| 15,000 lb | 6,803.9 kg | **25692** | $3,010.00 |
| 20,000 lb | 9,071.9 kg | **25693** | $3,010.00 |
| 25,000 lb | 11,339.8 kg | **25694** | $3,010.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **25695** | $3,095.00 |
| 1,500 lb | 680.4 kg | **25696** | $3,095.00 |
| 2,500 lb | 1,134.0 kg | **25698** | $3,095.00 |
| 5,000 lb | 2,268.0 kg | **25700** | $3,095.00 |
| 10,000 lb | 4,535.9 kg | **25701** | $3,950.00 |
| 15,000 lb | 6,803.9 kg | **25702** | $3,950.00 |
| 20,000 lb | 9,071.9 kg | **25703** | $3,950.00 |
| 25,000 lb | 11,339.8 kg | **25704** | $3,950.00 |
| **Dummy Load Cells** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **18236** | $21.00 |
| 10,000 lb-25,000 lb | 4,535.9 kg-11,339.8 kg | **18237** | $37.00 |

## Shims, Mild Steel

| | Part # | Price |
|---|---|---|
| **1,000 lb–5,000 lb** | | |
| 0.0625 | **150844** | $1.00 |
| 0.125 | **150845** | $1.50 |
| 0.250 | **150846** | $1.75 |
| **10,000 lb–25,000 lb** | | |
| 0.0625 | **150847** | $3.50 |
| 0.125 | **150848** | $6.00 |
| 0.250 | **150849** | $6.50 |



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WEIGH MODULES

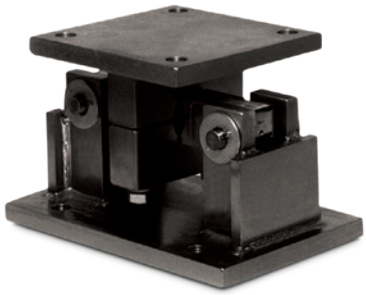
# RL1600 Series

Mild Steel Weigh Modules

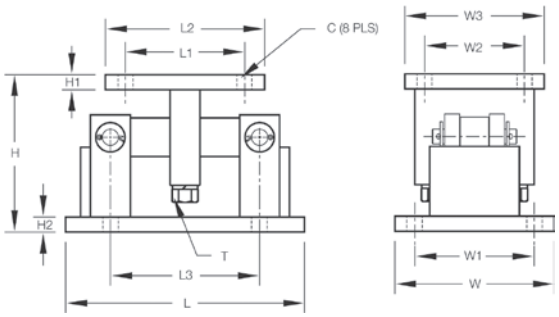


*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RL1600 Series mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium- to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.



*Mild steel module with RL75016 double-ended beam load cell.*




## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 mild steel compression mounts
- Three or four RL75016 double-ended shear beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 1000-75,000 lb (453.6-34,019.5 kg)
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended shear beam design, center loaded
- Painted mild steel construction

## Optional Features

- Kits available with VPG® Sensortronics 65016 load cells, capacities (per module): 1,000 lb-75,000 lb (453.6 kg-34,019.5 kg)

## Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management

## Load Cell Certifications

FM APPROVED

## Dimensions

| Rated Capacity | C | H | H1 | H2 | L | L1 | L2 | L3 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | |
| 1,000-5,000 | 0.56 | 5.00 | 0.50 | 0.50 | 9.25 | 2.75 | 4.00 | 6.25 | 1/2-13 UNC | 5.00 | 3.75 | 2.75 | 4.00 |
| 10,000-25,000 | 0.78 | 7.87 | 0.75 | 0.75 | 12.00 | 6.00 | 8.00 | 7.50 | 3/4-10 UNC | 8.00 | 6.00 | 6.00 | 8.00 |
| 50,000-75,000 | 0.78 | 9.25 | 1.00 | 1.00 | 16.25 | 6.50 | 9.00 | 11.50 | 1 1/4-7 UNC | 12.00 | 9.50 | 6.50 | 9.00 |
| **kg/mm** | | | | | | | | | | | | | |
| 453.6-2,268.0 | 14.2 | 127.0 | 12.7 | 12.7 | 235.0 | 69.9 | 101.6 | 158.8 | 1/2-13 UNC | 127.0 | 95.3 | 69.9 | 101.6 |
| 4,535.9-11,339.8 | 19.8 | 199.9 | 19.1 | 19.1 | 304.8 | 152.4 | 203.2 | 190.5 | 3/4-10 UNC | 203.2 | 152.4 | 152.4 | 203.2 |
| 22,679.7-34,019.5 | 19.8 | 234.9 | 25.4 | 25.4 | 412.8 | 165.1 | 228.6 | 292.1 | 1 1/4-7 UNC | 304.8 | 241.3 | 165.1 | 228.6 |



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## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **17812** | $157.00 |
| 10,000 -25,000 lb | 4,535.9 kg-11,339.8 kg | **17814** | $305.00 |
| 50,000 lb | 22,679.6 kg | **17816** | $1,025.00 |
| 75,000 lb | 34,019.5 kg | **25346** | $1,025.00 |
| **3-Module Kit** | | | |
| 1000 lb | 453.6 kg | **18117** | $2,030.00 |
| 1500 lb | 680.4 kg | **18118** | $2,030.00 |
| 2000 lb | 907.2 kg | **18119** | $2,030.00 |
| 2500 lb | 1,134.0 kg | **18120** | $2,030.00 |
| 3000 lb | 1,360.8 kg | **18121** | $2,030.00 |
| 5000 lb | 2,268.0 kg | **18122** | $2,030.00 |
| 10,000 lb | 4,535.9 kg | **18123** | $2,655.00 |
| 15,000 lb | 6,803.9 kg | **18124** | $2,655.00 |
| 20,000 lb | 9,071.9 kg | **18125** | $2,655.00 |
| 25,000 lb | 11,339.8 kg | **18126** | $2,655.00 |
| 50,000 lb | 22,679.6 kg | **18127** | $5,515.00 |
| 75,000 lb | 34,019.5 kg | **25348** | $5,515.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18129** | $2,595.00 |
| 1,500 lb | 680.4 kg | **18130** | $2,595.00 |
| 2,000 lb | 907.2 kg | **18131** | $2,595.00 |
| 2,500 lb | 1,134.0 kg | **18132** | $2,595.00 |
| 3,000 lb | 1,360.8 kg | **18133** | $2,595.00 |
| 5,000 lb | 2,268.0 kg | **18134** | $2,595.00 |
| 10,000 lb | 4,535.9 kg | **18135** | $3,425.00 |
| 15,000 lb | 6,803.9 kg | **18136** | $3,425.00 |
| 20,000 lb | 9,071.9 kg | **18137** | $3,425.00 |
| 25,000 lb | 11,339.8 kg | **18138** | $3,425.00 |
| 50,000 lb | 22,679.6 kg | **18139** | $7,365.00 |
| 75,000 lb | 34,019.5 kg | **25349** | $7,365.00 |

## VPG Sensortronics 65016 Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18189** | $2,385.00 |
| 1,500 lb | 680.4 kg | **18190** | $2,385.00 |
| 2,500 lb | 1,134.0 kg | **18192** | $2,385.00 |
| 5,000 lb | 2,268.0 kg | **18194** | $2,385.00 |
| 10,000 lb | 4,535.9 kg | **18195** | $3,010.00 |
| 15,000 lb | 6,803.9 kg | **18196** | $3,010.00 |
| 20,000 lb | 9,071.9 kg | **18197** | $3,010.00 |
| 25,000 lb | 11,339.8 kg | **18198** | $3,010.00 |
| 50,000 lb | 22,679.6 kg | **18199** | $5,960.00 |
| 75,000 lb | 34,019.5 kg | **25350** | $5,960.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18201** | $3,095.00 |
| 1,500 lb | 680.4 kg | **18202** | $3,095.00 |
| 2,500 lb | 1,134.0 kg | **18204** | $3,095.00 |
| 5,000 lb | 2,268.0 kg | **18206** | $3,095.00 |
| 10,000 lb | 4,535.9 kg | **18207** | $3,950.00 |
| 15,000 lb | 6,803.9 kg | **18208** | $3,950.00 |
| 20,000 lb | 9,071.9 kg | **18209** | $3,950.00 |
| 25,000 lb | 11,339.8 kg | **18210** | $3,950.00 |
| 50,000 lb | 22,679.6 kg | **18211** | $7,810.00 |
| 75,000 lb | 34,019.5 kg | **25351** | $7,810.00 |
| **Dummy Load Cells** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **18236** | $21.00 |
| 10,000 lb-25,000 lb | 4,535.9 kg-11,339.8 kg | **18237** | $37.00 |
| 50,000 lb | 22,679.6 kg | **18238** | $53.00 |

## Shims, Mild Steel

| | Part # | Price |
|---|---|---|
| **1,000 lb–5,000 lb** | | |
| 0.0625 | **150844** | $1.00 |
| 0.125 | **150845** | $1.50 |
| 0.250 | **150846** | $1.75 |
| **10,000 lb–25,000 lb** | | |
| 0.0625 | **150847** | $3.50 |
| 0.125 | **150848** | $6.00 |
| 0.250 | **150849** | $6.50 |
| **50,000 lb–75,000 lb** | | |
| 0.0625 | **150850** | $4.50 |
| 0.125 | **150851** | $7.50 |
| 0.250 | **150866** | $6.00 |

## Load Cell Upgrade

| |
|---|
| **RL75016SS Stainless Steel Load Cells** |
| Three mount kits, 1,000 lb to 25,000 lb $75.00 added to list price |
| Four mount kits, 1,000 lb to 25,000 lb $100.00 added to list price |
| **RL75016WHE Stainless Steel Hermetic Load Cells** |
| Three mount kits 1,000 lb-5,000 lb $390.00, 10,000 lb-25,000 lb $435.00 added to list price |
| Four mount kits 1,000 lb-5,000 lb $520.00, 10,000 lb-25,000 lb $580.00 added to list price |

*Contact factory for a 50,000 lb to 75,000 lb adder for stainless only*



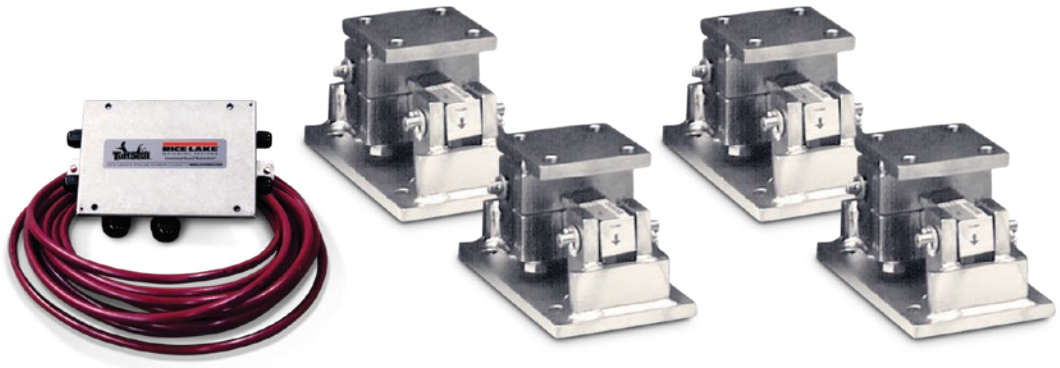
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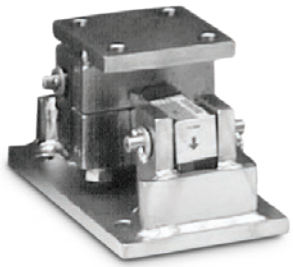
# RL1600 Series SS

Stainless Steel Weigh Modules

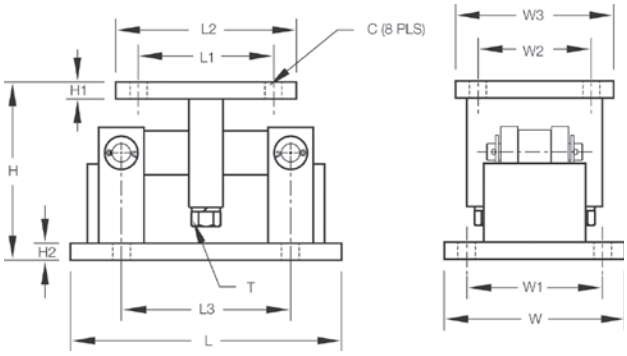


*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RL1600 Series mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium-to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.



*Fabricated stainless steel module with RL75016 SS double-ended beam load cell.*




## Complete Kit Includes:

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 stainless steel compression mounts
- Three or four RL75016 SS stainless steel double-ended shear beam load cells
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacities (per module): 1000-75,000 lb (453.6-34,019.5 kg)
- 304 stainless steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended shear beam design, center loaded

## Optional Features

- Kits available with VPG Sensortronics 65016W SS load cells

## Applications

- Medium-to heavy-capacity tanks, bins, and hoppers
- Bulk material management

## Load Cell Certifications

FM APPROVED

## Dimensions

| Rated Capacity | C | H | H1 | H2 | L | L1 | L2 | L3 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | |
| 1,000-5,000 | 0.56 | 5.00 | 0.50 | 0.50 | 9.25 | 2.75 | 4.00 | 6.25 | 1/2-13 UNC | 5.00 | 3.75 | 2.75 | 4.00 |
| 10,000-25,000 | 0.78 | 7.87 | 0.75 | 0.75 | 12.00 | 6.00 | 8.00 | 7.50 | 3/4-10 UNC | 8.00 | 6.00 | 6.00 | 8.00 |
| 50,000-75,000 | 0.78 | 9.25 | 1.00 | 1.00 | 16.25 | 6.50 | 9.00 | 11.50 | 1 1/4-7 UNC | 12.00 | 9.50 | 6.50 | 9.00 |
| **kg/mm** | | | | | | | | | | | | | |
| 453.6-2,268.0 | 14.2 | 127.0 | 12.7 | 12.7 | 235.0 | 69.9 | 101.6 | 158.8 | 1/2-13 UNC | 127.0 | 95.3 | 69.9 | 101.6 |
| 4,535.9-11,339.8 | 19.8 | 199.9 | 19.1 | 19.1 | 304.8 | 152.4 | 203.2 | 190.5 | 3/4-10 UNC | 203.2 | 152.4 | 152.4 | 203.2 |
| 22,679.7-34,019.5 | 19.8 | 234.9 | 25.4 | 25.4 | 412.8 | 165.1 | 228.6 | 292.1 | 1 1/4-7 UNC | 304.8 | 241.3 | 165.1 | 228.6 |





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# RL1600 Series SS

Stainless Steel Weigh Modules

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **17813** | $590.00 |
| 10,000 lb-25,000 lb | 4,535.9 kg-11,339.8 kg | **17815** | $1,150.00 |
| 50,000 lb | 22,679.6 kg | **17842** | $2,725.00 |
| 75,000 lb | 34,019.5 kg | **25347** | $2,725.00 |
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18141** | $3,355.00 |
| 1,500 lb | 680.4 kg | **18142** | $3,355.00 |
| 2,000 lb | 907.2 kg | **18143** | $3,355.00 |
| 2,500 lb | 1,134.0 kg | **18144** | $3,355.00 |
| 5,000 lb | 2,268.0 kg | **18145** | $3,355.00 |
| 10,000 lb | 4,535.9 kg | **18146** | $5,075.00 |
| 15,000 lb | 6,803.9 kg | **18147** | $5,075.00 |
| 20,000 lb | 9,071.9 kg | **18148** | $5,075.00 |
| 25,000 lb | 11,339.8 kg | **18149** | $5,075.00 |
| 50,000 lb | 22,679.6 kg | **18150** | $11,500.00 |
| 75,000 lb | 34,019.5 kg | **25352** | $11,500.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18152** | $4,380.00 |
| 1,500 lb | 680.4 kg | **18153** | $4,380.00 |
| 2,000 lb | 907.2 kg | **18154** | $4,380.00 |
| 2,500 lb | 1,134.0 kg | **18155** | $4,380.00 |
| 5,000 lb | 2,268.0 kg | **18156** | $4,380.00 |
| 10,000 lb | 4,535.9 kg | **18157** | $6,930.00 |
| 15,000 lb | 6,803.9 kg | **18158** | $6,930.00 |
| 20,000 lb | 9,071.9 kg | **18159** | $6,930.00 |
| 25,000 lb | 11,339.8 kg | **18160** | $6,930.00 |
| 50,000 lb | 22,679.6 kg | **18161** | $15,530.00 |
| 75,000 lb | 34,019.5 kg | **25353** | $15,530.00 |

## VPG Sensortronics 65016W Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18213** | $3,600.00 |
| 1,500 lb | 680.4 kg | **18214** | $3,600.00 |
| 2,500 lb | 1,134.0 kg | **18216** | $3,600.00 |
| 5,000 lb | 2,268.0 kg | **18217** | $3,600.00 |
| 10,000 lb | 4,535.9 kg | **18218** | $5,475.00 |
| 15,000 lb | 6,803.9 kg | **18219** | $5,475.00 |
| 20,000 lb | 9,071.9 kg | **18220** | $5,475.00 |
| 25,000 lb | 11,339.8 kg | **18221** | $5,475.00 |
| 50,000 lb | 22,679.6 kg | **18222** | $12,000.00 |
| 75,000 lb | 34,019.5 kg | **25354** | $12,000.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **18224** | $4,730.00 |
| 1,500 lb | 680.4 kg | **18225** | $4,730.00 |
| 2,500 lb | 1,134.0 kg | **18227** | $4,730.00 |
| 5,000 lb | 2,268.0 kg | **18228** | $4,730.00 |
| 10,000 lb | 4,535.9 kg | **18229** | $7,230.00 |
| 15,000 lb | 6,803.9 kg | **18230** | $7,230.00 |
| 20,000 lb | 9,071.9 kg | **18231** | $7,230.00 |
| 25,000 lb | 11,339.8 kg | **18232** | $7,230.00 |
| 50,000 lb | 22,679.6 kg | **18233** | $15,830.00 |
| 75,000 lb | 34,019.5 kg | **25355** | $15,295.00 |
| **Dummy Load Cells (Mild Steel)** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **18236** | $21.00 |
| 10,000 lb-25,000 lb | 4,535.9 kg-11,339.8 kg | **18237** | $37.00 |
| 50,000 lb | 22,679.6 kg | **18238** | $53.00 |

## Shims, Stainless

| | Part # | Price |
|---|---|---|
| **1,000 lb–5,000 lb** | | |
| 0.0625 | **150852** | $3.25 |
| 0.125 | **150853** | $8.50 |
| 0.250 | **150854** | $14.25 |
| **10,000 lb–25,000 lb** | | |
| 0.0625 | **150855** | $12.75 |
| 0.125 | **150856** | $20.50 |
| 0.250 | **150857** | $57.00 |
| **50,000 lb–75,000 lb** | | |
| 0.0625 | **150858** | $16.25 |
| 0.125 | **150859** | $26.25 |
| 0.250 | **150861** | $72.25 |



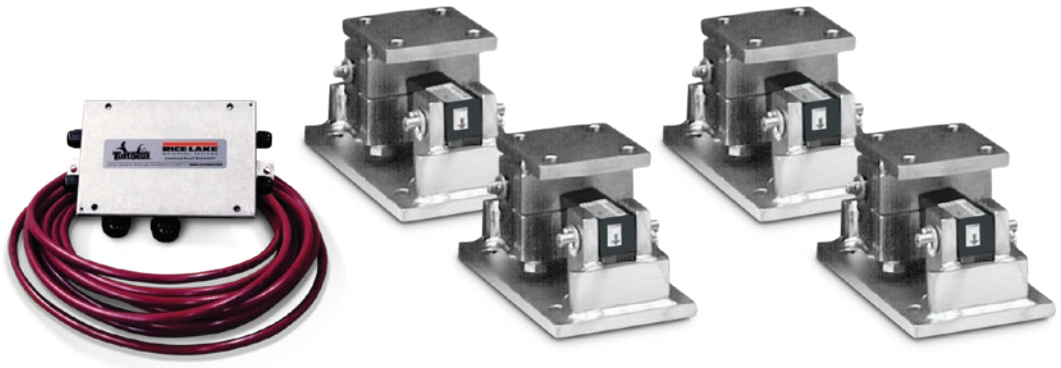
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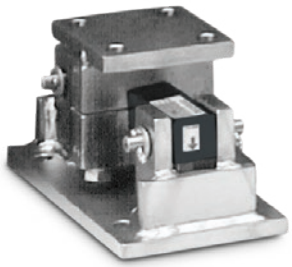
# RL1600 Series Painted Load Cell Version

Stainless Steel Weigh Modules

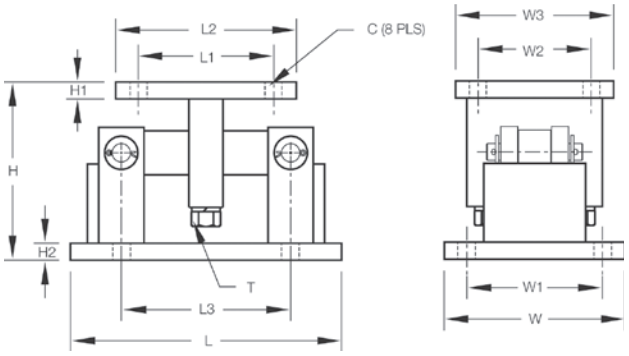


*Available in configurations with three or four mounting assemblies.*
*Picture is a representation of actual product.*

The RL1600 Series mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series is ideally suited for applications where corrosive materials are weighed such as fertilizer. Each module incorporates self-checking capabilities for thermal expansion and contraction.



*Module with RL75016 painted double-ended beam cell*




## Complete Kit Includes

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 stainless steel compression mounts
- Three or four RL75016 alloy steel double-ended shear beam load cells, painted
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features

- Capacities (per module): 1000-75,000 lb (453.6-34,019.5 kg)
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended shear beam design, center loaded

## Applications

- Medium-to heavy-capacity tanks, bins, and hoppers
- Bulk material management

## Load Cell Certifications

FM APPROVED

## Dimensions

| Rated Capacity | C | H | H1 | H2 | L | L1 | L2 | L3 | T | W | W1 | W2 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | |
| 1,000-5,000 | 0.56 | 5.00 | 0.50 | 0.50 | 9.25 | 2.75 | 4.00 | 6.25 | 1/2-13 UNC | 5.00 | 3.75 | 2.75 | 4.00 |
| 10,000-25,000 | 0.78 | 7.87 | 0.75 | 0.75 | 12.00 | 6.00 | 8.00 | 7.50 | 3/4-10 UNC | 8.00 | 6.00 | 6.00 | 8.00 |
| 50,000-75,000 | 0.78 | 9.25 | 1.00 | 1.00 | 16.25 | 6.50 | 9.00 | 11.50 | 1 1/4-7 UNC | 12.00 | 9.50 | 6.50 | 9.00 |
| **kg/mm** | | | | | | | | | | | | | |
| 453.6-2,268.0 | 14.2 | 127.0 | 12.7 | 12.7 | 235.0 | 69.9 | 101.6 | 158.8 | 1/2-13 UNC | 127.0 | 95.3 | 69.9 | 101.6 |
| 4,535.9-11,339.8 | 19.8 | 199.9 | 19.1 | 19.1 | 304.8 | 152.4 | 203.2 | 190.5 | 3/4-10 UNC | 203.2 | 152.4 | 152.4 | 203.2 |
| 22,679.7-34,019.5 | 19.8 | 234.9 | 25.4 | 25.4 | 412.8 | 165.1 | 228.6 | 292.1 | 1 1/4-7 UNC | 304.8 | 241.3 | 165.1 | 228.6 |





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# RL1600 Series Painted Load Cell Version

Stainless Steel Weigh Modules

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **Single Module (Does NOT Include Load Cell)** | | | |
| 1,000 lb-5,000 lb | 453.6 kg-2,268.0 kg | **17813** | $590.00 |
| 10,000 lb-25,000 lb | 4,535.9 kg-11,339.8 kg | **17815** | $1,150.00 |
| 50,000 lb | 22,679.6 kg | **17842** | $2,725.00 |
| 75,000 lb | 34,019.5 kg | **25347** | $2,725.00 |
| **3-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **199023** | $3,355.00 |
| 1,500 lb | 680.4 kg | **199025** | $3,355.00 |
| 2,000 lb | 907.2 kg | **199027** | $3,355.00 |
| 2,500 lb | 1,134.0 kg | **199029** | $3,355.00 |
| 3,000 lb | 1,360.8 kg | **199031** | $3,355.00 |
| 5,000 lb | 2,268.0 kg | **199033** | $3,355.00 |
| 10,000 lb | 4,535.9 kg | **199035** | $5,075.00 |
| 15,000 lb | 6,803.9 kg | **199037** | $5,075.00 |
| 20,000 lb | 9,071.9 kg | **199038** | $5,075.00 |
| 25,000 lb | 11,339.8 kg | **199040** | $5,075.00 |
| 50,000 lb | 22,679.6 kg | **199042** | $11,075.00 |
| 75,000 lb | 34,019.5 kg | **199044** | $11,075.00 |
| **4-Module Kit** | | | |
| 1,000 lb | 453.6 kg | **199024** | $4,380.00 |
| 1,500 lb | 680.4 kg | **199026** | $4,380.00 |
| 2,000 lb | 907.2 kg | **199028** | $4,380.00 |
| 2,500 lb | 1,134.0 kg | **199030** | $4,380.00 |
| 3,000 lb | 1,360.8 kg | **199032** | $3,355.00 |
| 5,000 lb | 2,268.0 kg | **199034** | $4,380.00 |
| 10,000 lb | 4,535.9 kg | **199036** | $6,930.00 |
| 15,000 lb | 6,803.9 kg | **199056** | $6,930.00 |
| 20,000 lb | 9,071.9 kg | **199039** | $6,930.00 |
| 25,000 lb | 11,339.8 kg | **199041** | $6,930.00 |
| 50,000 lb | 22,679.6 kg | **199043** | $14,750.00 |
| 75,000 lb | 34,019.5 kg | **199045** | $14,750.00 |

## Shims, Stainless

| | Part # | Price |
|---|---|---|
| **1,000 lb–5,000 lb** | | |
| 0.0625 | **150852** | $3.25 |
| 0.125 | **150853** | $8.50 |
| 0.250 | **150854** | $14.25 |
| **10,000 lb–25,000 lb** | | |
| 0.0625 | **150855** | $12.75 |
| 0.125 | **150856** | $20.50 |
| 0.250 | **150857** | $57.00 |
| **50,000 lb–75,000 lb** | | |
| 0.0625 | **150858** | $16.25 |
| 0.125 | **150859** | $26.25 |
| 0.250 | **150861** | $72.25 |



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# MVS Mount/MVS

Conversion Kit



*Picture is a representation of actual product.*

The MVS utilizes the center-loaded double-ended shear beam load cell design. The mount is self-centering, which eliminates the need of costly check rods. This results in a pendulum suspension effect that eliminates binding, protects the load cells from damaging side load common on truck scales and automatically returns the mount to dead center. The mount is easy to install and promises high performance and long life.

## Complete Kit Includes:

- Four to 10 RL75058-75,000 lb load cells with 35 ft or 60 ft cables
- Four to 10 MVS mounts
- JB 8SPT junction box (JB1010 on 10 module kit)
- 100 ft of our hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Capacity design: 10,000-125,000 lb (4536.0-34,019.4 kg)
- Mild steel construction
- Specially hardened center link
- Self-checking design
- Self-centering design
- Accommodates thermal expansion and contraction

## Optional Features

- VPG® Sensortronics 65058 or VPG Celtron CLB

## Applications

- Truck scale conversion
- Heavy-capacity horizontal tanks

## Load Cell Certifications

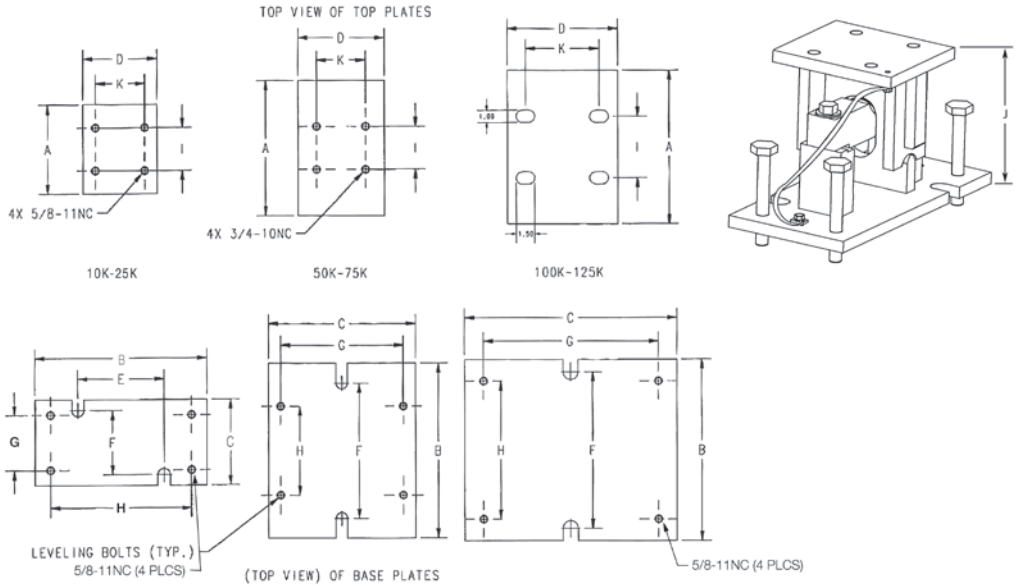




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# MVS Mount/MVS

Conversion Kit




## Dimensions

| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 10,000-25,000 | 7.25 | 14.00 | 7.00 | 6.00 | 7.00 | 5.25 | 4.50 | 11.50 | 3.50 | 8.50 | 4.00 |
| 50,000-75,000 | 11.00 | 14.25 | 12.00 | 7.00 | — | 11.00 | 10.00 | 7.25 | 3.50 | 11.53 | 4.00 |
| 100,000-125,000 | 12.50 | 14.75 | 17.25 | 9.00 | — | 12.75 | 14.25 | 11.25 | 5.00 | 14.21 | 6.00 |
| **kg/mm** | | | | | | | | | | | |
| 4,536.0-11,340.0 | 184.2 | 355.6 | 177.8 | 152.4 | 177.8 | 133.5 | 114.3 | 292.1 | 88.9 | 215.9 | 101.6 |
| 22,679.6-34,019.4 | 279.4 | 362.0 | 304.8 | 177.8 | — | 279.4 | 254 | 184.15 | 88.9 | 292.9 | 101.6 |
| 45,360-56,700.0 | 317.50 | 374.7 | 438.2 | 228.6 | — | 323.9 | 362.0 | 285.8 | 127.0 | 360.9 | 152.4 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| **MVS Mount (Does NOT Include Load Cell)** | | | |
| 10,000 lb-25,000 lb | 4,536 kg-11,340 kg | **71200** | $625.00 |
| 50,000 lb-75,000 lb | 22,679.6 kg-34,019.4 kg | **46441** | $730.00 |
| 100,000 lb-125,000 lb | 45,360 kg-56,700.0 kg | **68520** | $1,260.00 |
| **MVS Conversion Kits (Includes 75,000 lb* Load Cells, Mounts and Junction Box)** | | | |
| 4-module kit | | **68495** | $6,735.00 |
| 6-module kit | | **68496** | $9,905.00 |
| 8-module kit | | **68497** | $13,475.00 |
| 10-module kit | | **68498** | $16,995.00 |
| **Dummy Load Cell** | | | |
| 50 lb-75,000 lb | | **169388** | $157.00 |
| 100,000 lb-125,000 lb | | **159696** | $185.00 |

*Custom heights available; Consult*

** Consult for other capacity requirements*



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# Translink™ Parallel Link Truck Scale Assembly

Rice Lake Weighing Systems



*Mount only; does not include load cell.*
*Picture is a representation of actual product.*

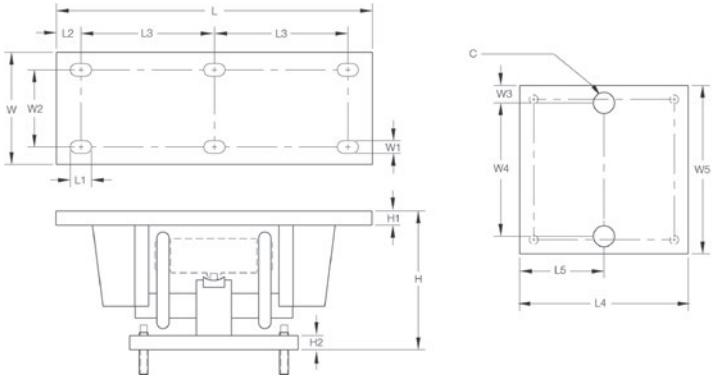
The Translink parallel link truck scale assembly is designed for use with Rice Lake Weighing Systems' RL75223 and RL75040A, VPG Revere's 5223 or VPG Sensortronics®' 65040A load cells. This design allows the scale platform to move freely in all directions on a horizontal plane while causing the platform to self-center because of the pendulous action of the links. The unique parallel link design eliminates the need for costly and troublesome checkrods. Simply install platform bumpers and forget about over-travel. This mount is ideal for heavy-capacity weigh bridges.

## Standard Features

- Capacities: 25,000-100,000 lb (11,339.8-45,359.4 kg)
- Center-supported, end-loaded double-ended shear beam design
- Free movement in all directions in the horizontal plane with virtually no friction
- Links provide optimal loading conditions for the cell
- Completely self-centering
- Requires no check rods
- Utilizes cells with 3 mV/V output
- Models available are RL75223 and RL75040, RTI 5223 and Vishay Sensortronics 65040A load cells

## Applications

- Truck scale mount
- Heavy-capacity horizontal tanks




## Dimensions

| Rated Capacity | C | H | H1 | H2 | L | L1 | L2 | L3 | L4 | L5 | W | W1 | W2 | W3 | W4 | W5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | | |
| 50,000-100,000 (RL75223, 5223) | 1.50 | 12.93 | 1.00 | 1.00 | 22.50 | 1.50 | 1.75 | 9.50 | 11.75 | 5.88 | 7.75 | 0.91 | 5.25 | 1.25 | 9.25 | 11.75 |
| 25,000-40,000 (RL75040A, 65040A) | 1.50 | 9.88 | 1.00 | 1.00 | 18.50 | 1.50 | 1.75 | 7.50 | 11.75 | 5.88 | 7.75 | 0.91 | 5.25 | 1.25 | 9.25 | 11.75 |
| 50,000-75,000 (RL75040A, 65040A) | 1.50 | 12.82 | 1.00 | 1.00 | 22.50 | 1.50 | 1.75 | 9.50 | 11.75 | 5.88 | 7.75 | 0.91 | 5.25 | 1.25 | 9.25 | 11.75 |
| **kg/mm** | | | | | | | | | | | | | | | | |
| 22,679.6-45,359.4 | 38.1 | 328.4 | 25.4 | 25.4 | 571.5 | 37.5 | 44.5 | 241.3 | 298.5 | 149.4 | 196.9 | 23.1 | 133.4 | 31.8 | 235.0 | 298.4 |
| 11,339.8-18,143.7 | 38.1 | 251.0 | 25.4 | 25.4 | 469.9 | 37.5 | 44.5 | 190.5 | 298.5 | 149.4 | 196.9 | 23.1 | 133.4 | 31.8 | 235.0 | 298.4 |
| 22,679.6-34,019.4 | 38.1 | 325.6 | 25.4 | 25.4 | 571.5 | 37.5 | 44.5 | 241.3 | 298.5 | 149.4 | 196.9 | 23.1 | 133.4 | 31.8 | 235.0 | 298.4 |

## Order Information

| Load Rating (Per Module) | | Part# | Price |
|---|---|---|---|
| **For Use With RL75223, 5223 Load Cells** | | | |
| 50,000 lb-100,000 lb | 22,679.6 kg-45,359.4 kg | **17970** | $760.00 |
| **For Use With RL75040A, 65040A Load Cells** | | | |
| 25,000 lb-40,000 lb | 11,339.8 kg-18,143.7 kg | **17971** | $760.00 |
| 50,000 lb-75,000 lb | 22,679.6 kg-34,019.4 kg | **17972** | $760.00 |

*Mount only; does not include load cell*
*See load cell model RL75223 (RLWS), load cell model RL75040 (RLWS) and model 65040A (VPG Sensortronics) specifications*



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# Motor Truck Scale Electronic Conversion Kit

Rice Lake Weighing Systems



*Picture is a representation of actual product.*

## Complete Kit Includes:

- One JB8SP NEMA Type 4X signal-trim junction box with individual and section trimming capability (six- and eight-mount kits) or one JB4SP NEMA Type 4X signal-trim junction box (four-mount kits)
- One UJB3T6 DC transient protector
- Four, six or eight Translink mounting assemblies with RL75040 or RL75223 load cells
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable

## Standard Features:

- Cost and time efficient installation; no need to remove weighbridge
- Converts existing scale capacities of 40,000-300,000lb (18,143.7-90,718.7kg)
- Four, six or eight-mount kits for two, three or four-section conversions
- Translink™ heavy-capacity mounting assemblies
- Free movement in all directions in the horizontal plane with virtually no friction
- Completely self-centering
- Requires no check rods
- Capacity per mount: 25,000-100,000lb (11,339.8-45,359.4 kg)
- Utilizes cells with 3 mV/V output

## Optional Features

- Custom heights available; consult
- RLWS RL75223 welded-seal, VPG® Sensortronics 65040A or RTI 5223 load cells

## Applications

- Updating existing mechanical motor truck scales
- Replacing unsatisfactory electronic motor truck scales
- Conversion of heavy-capacity scales into fully electronic vehicle scales where the existing scale cannot be removed

Full electronic performance can be achieved at a fraction of the cost of a new scale and pit. The Motor Truck Scale (MTS) Electronic conversion kit is designed to transform an existing scale pit and weighbridge into a fully electronic vehicle scale. Designed for quick installation without removing the platform or reconfiguring the pit, the conversion kit can often be installed in a matter of days, minimizing downtime. This ease of installation is important when considering installations where it is not feasible to completely remove the existing scale.



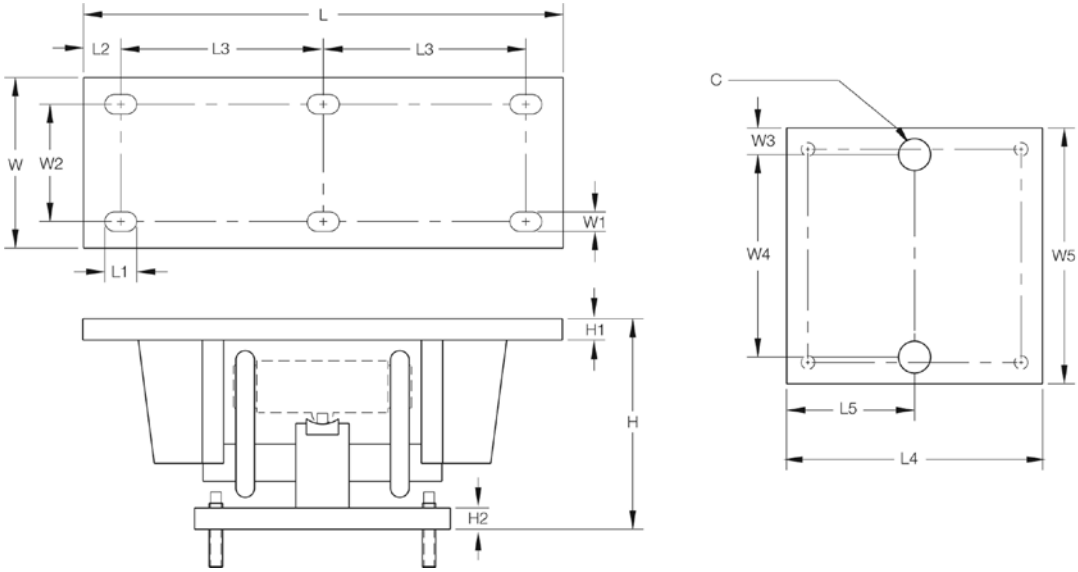
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# Motor Truck Scale Electronic Conversion Kit

Rice Lake Weighing Systems




## Dimensions

| Rated Capacity | C | H* | H1 | H2 | L | L1 | L2 | L3 | L4 | L5 | W | W1 | W2 | W3 | W4** | W5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | | |
| 50,000-100,000 (RL75223) | 1.50 | 12.93 | 1.00 | 1.00 | 22.50 | 1.50 | 1.75 | 9.50 | 11.75 | 5.88 | 7.75 | 0.91 | 5.25 | 1.25 | 9.25 | 11.75 |
| 25,000-40,000 (RL75040A) | 1.50 | 9.88 | 1.00 | 1.00 | 18.50 | 1.50 | 1.75 | 7.50 | 11.75 | 5.88 | 7.75 | 0.91 | 5.25 | 1.25 | 9.25 | 11.75 |
| 50,000-75,000 (RL75040A) | 1.50 | 12.82 | 1.00 | 1.00 | 22.50 | 1.50 | 1.75 | 9.50 | 11.75 | 5.88 | 7.75 | 0.91 | 5.25 | 1.25 | 9.25 | 11.75 |
| **kg/mm** | | | | | | | | | | | | | | | | |
| 22,679.6-45,400.00 (RL75223) | 38.1 | 328.4 | 25.4 | 25.4 | 571.5 | 37.5 | 44.5 | 241.3 | 298.5 | 149.4 | 196.9 | 23.1 | 133.4 | 31.8 | 235.0 | 298.45 |
| 11,339.8-18,143.7 (RL75040A) | 38.1 | 251.0 | 25.4 | 25.4 | 469.9 | 37.5 | 44.5 | 190.5 | 298.5 | 149.4 | 196.9 | 23.1 | 133.4 | 31.8 | 235.0 | 298.45 |
| 22,679.6-34,019.4 (RL75040A) | 38.1 | 325.6 | 25.4 | 25.4 | 571.5 | 37.5 | 44.5 | 241.3 | 298.5 | 149.4 | 196.9 | 23.1 | 133.4 | 31.8 | 235.0 | 298.45 |

**Custom heights available; consult* ***Custom hole spacing for existing bolt patterns is available; consult*

## Order Information

| Scale Suggested Capacity | | Load Cell Capacity (Per Module) | | Part# | Price | Load Cell Used In Kit |
|---|---|---|---|---|---|---|
| **4-Module Kit (Includes Weigh Modules Load Cells, Junction Box, and Transient Protection)** | | | | | | |
| 40,000 lb | 18,143.7 kg | 25,000 lb | 11,339.8 kg | **30513** | $5,665.00 | RL75040A |
| 60,000 lb | 27,215.6 kg | 40,000 lb | 18,143.7 kg | **30514** | $6,165.00 | RL75040A |
| **6-Module Kit (Includes Weigh Modules Load Cells, Junction Box and Transient Protection)** | | | | | | |
| 100,000 lb | 45,359.4 kg | 50,000 lb | 22,679.6 kg | **30515** | $9,705.00 | RL75040A |
| 120,000 lb | 54,431.2 kg | 60,000 lb | 27,215.6 kg | **30516** | $9,705.00 | RL75040A |
| **8-Module Kit (Includes Weigh Modules Load Cells, Junction Box and Transient Protection)** | | | | | | |
| 120,000 lb | 54,431.2 kg | 60,000 lb | 27,215.6 kg | **30517** | $12,505.00 | RL75040A |
| 200,000 lb | 90,718.7 kg | 75,000 lb | 34,019.4 kg | **30518** | $12,505.00 | RL75040A |
| 300,000 lb | SD 136,078.1 kg | 100,000 lb | 45,359.4 kg | **30512** | $15,230.00 | RL75223 |

*SD refers to super duty, 100,000 lb (45,359.4 kg) capacity welded-seal load cells*





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# MagnaMount®

Tank, Truck and Railroad Track Assembly

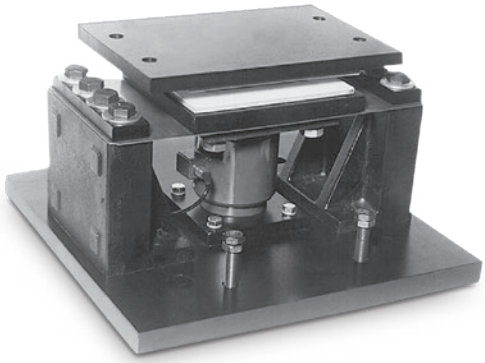
## Standard Features

- Capacities: 50,000, 100,000 and 200,000 lb (22,679.6, 45,359.4 and 90,718.7 kg)
- Protects load cell from shock and side loads
- Low-profile design
- High-strength load bearing plate made of high-grade carbon steel hardened to Rockwell C 48-54
- PTFE-coated shock absorbing pads
- Compatible with VPG® Revere CP and CSP and Rice Lake Weighing Systems' RLCSP1 NTEP Certified load cells

## Applications

- Truck scale mount*
- Heavy-capacity horizontal tanks*
- Railroad track mount*

**Check rods required*



*Mount only; does not include load cell.*
*Picture is a representation of actual product.*

The Magna Mount tank, truck and railroad scale assembly is designed for use with Rice Lake Weighing Systems' RLCSP1 or VPG Revere CP or CSP load cells. The shielded-cell load cell mounting assembly is a highly reliable design that shields the load cell from shock and side load effects, assuring accurate weighing even under adverse loading conditions.

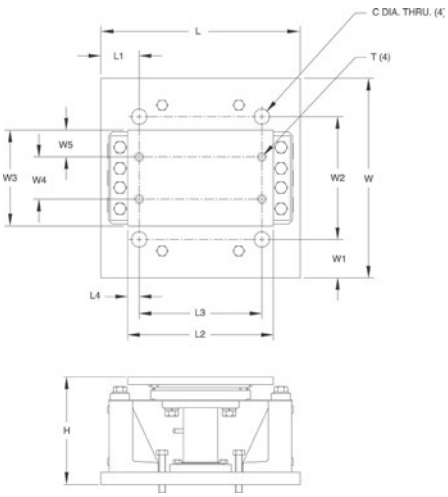
## Dimensions

| Rated Capacity | C | H | L | L1 | L2 | L3 | L4 | T | W | W1 | W2 | W3 | W4 | W5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | | | | | | | |
| 50,000 | 1.25 | 7.39 | 13.00 | 1.75 | 11.25 | 8.50 | 1.37 | 3/4-10 UNC | 12.00 | 1.75 | 8.50 | 8.00 | 4.50 | 1.75 |
| 100,000 | 1.50 | 11.29 | 20.00 | 2.25 | 18.00 | 15.50 | 1.25 | 7/8-9 UNC | 17.00 | 2.50 | 12.00 | 9.00 | 5.50 | 1.75 |
| 200,000 | 2.00 | 14.10 | 26.00 | 5.00 | 19.00 | 16.00 | 1.50 | 1-8 UNC | 26.00 | 5.00 | 16.00 | 12.50 | 5.50 | 3.50 |
| kg/mm | | | | | | | | | | | | | | |
| 22,679.6 | 31.8 | 187.7 | 330.2 | 44.5 | 285.8 | 241.3 | 34.8 | 3/4-10 UNC | 304.8 | 44.5 | 215.9 | 203.2 | 114.3 | 44.5 |
| 45,359.4 | 38.1 | 286.8 | 508.0 | 57.15 | 457.2 | 393.7 | 31.8 | 7/8-9 UNC | 431.8 | 63.5 | 304.8 | 228.6 | 139.7 | 44.5 |
| 90,718.7 | 50.8 | 358.1 | 660.4 | 127.0 | 482.6 | 406.4 | 38.1 | 1-8 UNC | 660.4 | 127.0 | 406.4 | 317.5 | 139.7 | 88.9 |

## Order Information

| Load Rating (Per Module) | | Part # | Price |
|---|---|---|---|
| 50,000 lb | 22,679.6 kg | **21723** | $1,595.00 |
| 100,000 lb | 45,359.4 kg | **21724** | $1,895.00 |
| 200,000 lb | 90,718.7 kg | **17974** | $2,695.00 |

*Mount only; does not include load cell*
*See VPG Revere load cell model CP and NTEP Certified load cell model CSP for specifications*
*See Rice Lake Weighing Systems' NTEP Certified load cell model RLCSP1*






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# Mettler Toledo™ DigiTOL® Retrofit Kit

Stainless Steel, Rice Lake Weighing Systems/Flintec

## RC1 Load Cells

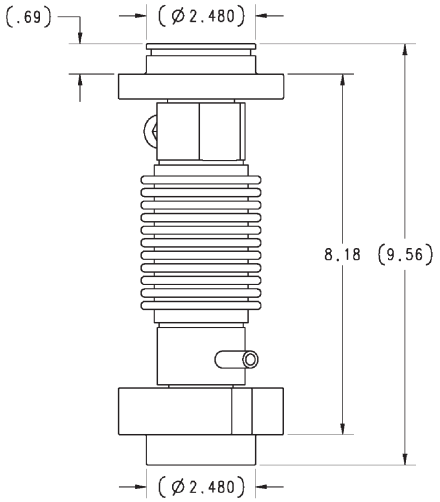


*Shown here with the JB8SP signal trim junction box.*
*Picture is a representation of actual product.*

These kits are designed to provide a cost effective solution for replacing Toledo™ DigiTOL® digital load cells with analog load cells. The Flintec RC1 and RC3 load cells are stainless steel and hermetically sealed to provide years of trouble-free service.

## DigiTOL Retrofit Order information

| Description | Part# | Price |
|---|---|---|
| 8 mount kit (RC1-56,000) 1 junction box | **78713** | $8,795.00 |
| 10 mount kit (RC1-56,000) 2 junction boxes | **78714** | $10,695.00 |
| 12 mount kit (RC1-56,000) 3 junction boxes | **152774** | $13,195.00 |




RC1-250KN

## Complete Kit Includes:

- One JB8SP or two JB8SP signal trim junction boxes (eight and 10 mount kit)
- Three EL304 signal trim boxes in 12 mount kits
- Eight, 10 or 12 Flintec RC1-250 KN load cells with upper and lower load cups
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable
- Cups included

## Standard Features:

- Stainless steel hermetically sealed load cells
- Converts existing Mettler Toledo DigiTOL scale to an analog based load cell weighing system
- Eight, 10 or 12 load cells, cups plus junction box and home run cable
- Load cells are NTEP Certified 1:10,000 divisions, Class IIIL*
- Rocker design load cells
- Load cups

**Consult your local Weights & Measures Authorities for local Legal for Trade requirements*

## Applications

- Toledo® DigiTOL® truck scale conversion

## Warranty

- One-year limited warranty

## Load Cell Certifications

FM APPROVED





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# Mettler Toledo™ DigiTOL® Retrofit Kit

Stainless Steel, Rice Lake Weighing Systems/Flintec

## RC3 Load Cells



*Shown here with the JB8SP signal trim junction box*
*Picture is a representation of actual product*

## Complete Kit Includes:

- 1 JB8SP or 2 JB8SP signal trim junction boxes (8 and 10 mount kit)
- 3 EL304 signal trim boxes in 12 mount kits
- 8, 10 or 12 Flintec RC3
- 100ft of hostile environment EL147HE SURVIVOR® load cell cable
- Cups included

## Standard Features

- Stainless steel hermetically sealed load cells
- Converts existing Mettler Toledo DigiTOL scale to an analog based load cell weighing system
- 8 or 10 load cells, cups plus junction box and home run cable
- Load cells are NTEP Certified 1:10,000 divisions, Class IIIL*
- Rocker design load cells
- Load cups

**Consult your local Weights & Measures Authorities for local Legal for Trade requirements*

## Applications

- Toledo® DigiTOL® truck scale conversion

## Warranty

- One-year limited warranty

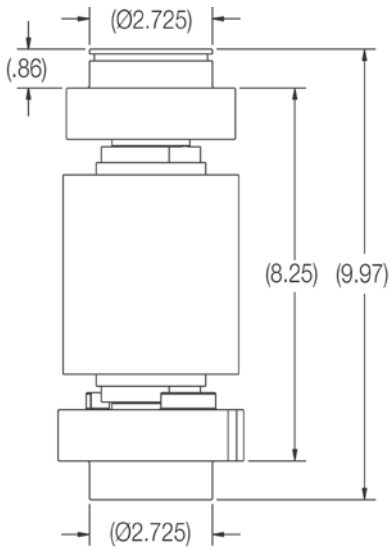
## Load Cell Certifications

FM APPROVED

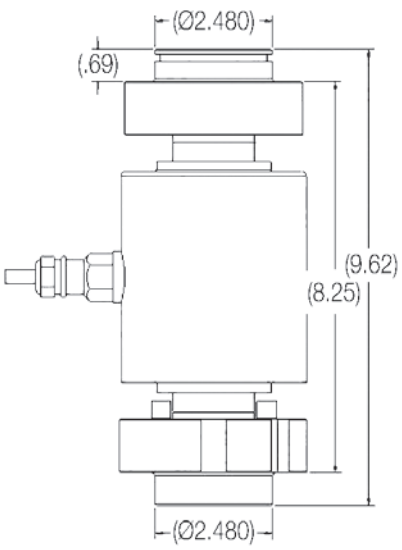
This kit is designed to provide a cost effective solution for replacing Mettler Toledo™ DigiTOL® digital load cells with analog load cells. The Flintec® RC3 load cell is stainless steel and hermetically sealed to provide years of trouble-free service.

## DigiTOL Retrofit Order information

| Description | Part # | Price |
|---|---|---|
| 8 mount kit (RC3-50T) RR/track 2 junction boxes | **129844** | $11,995.00 |
| 8 mount (RC3-50T) truck 2 junction boxes | **154347** | $11,995.00 |
| 10 mount kit (RC3-50T) RR/track 2 junction boxes | **111367** | $14,795.00 |
| 10 mount kit (RC3-50T) truck 3 junction boxes | **154348** | $14,795.00 |
| 12 mount kit (RC3-50T) truck 3 junction boxes | **154349** | $17,185.00 |




RC3-50t
RR TRACK




RC3-50t
TRUCK



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# Electronic Floor Scale Underdeck Kits

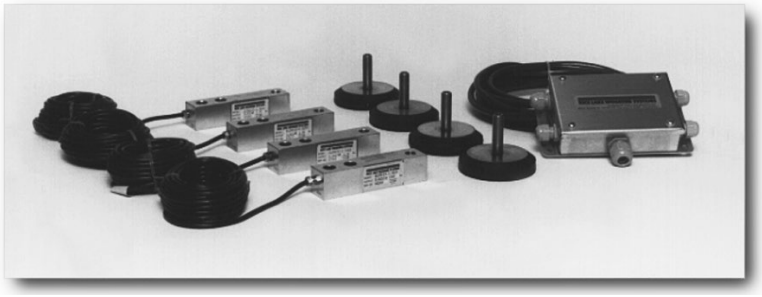


## Alloy Steel Load Cells

| Industrial Applications |
|---|
| **Kit Includes** |
| (4) VPG Celtron® SQB load cells |
| (1) JB4SS stainless steel NEMA Type 4X junction box |
| (4) Surefoot® high-accuracy stainless steel support feet |
| 20 ft (6.1 m) EL147HE load cell cable |
| (4) mounting plates and (8) load cell bolts |

## Order Information

| Load Cell/Base Capacity | | Part # | Price |
|---|---|---|---|
| **Kit Includes VPG Celtron SQB Load Cells** | | | |
| 1,000 lb for 2,000 lb base | 453.6 kg for 907.2 kg base | **26436** | $925.00 |
| 2,500 lb for 5,000 lb base | 1,134.0 kg for 2,268.0 kg base | **26437** | $925.00 |
| 4,000 lb for 10,000 lb base | 1,814.4 kg for 4,535.9 kg base | **26438** | $925.00 |



## Alloy Steel NTEP Certified Load Cells

| High-Precision Applications |
|---|
| **Kit Includes** |
| (4) RL32018 alloy steel NTEP Certified 5,000 d, Class III load cells |
| (1) JB4SS stainless steel NEMA Type 4X junction box |
| (4) Surefoot high-accuracy stainless steel support feet |
| 20 ft (6.1 m) EL147HE load cell cable |
| (4) mounting plates and (8) load cell bolts |

*NOTES: The use of NTEP Certified load cells in a scale base does not constitute approval of the completed base. Consult with local or state jurisdiction for compliance requirements.*

## Order Information

| Load Cell/Base Capacity (Per Module) | | Part # | Price |
|---|---|---|---|
| **Kit Includes RL35023 Alloy Steel NTEP Certified Load Cells** | | | |
| 1,000 lb for 2,000 lb base | 453.6 kg for 907.2 kg base | **19032** | $1,000.00 |
| 2,500 lb for 5,000 lb base | 1,134.0 kg for 2,268.0 kg base | **19033** | $1,000.00 |
| 4,000 lb for 10,000 lb base | 1,814.4 kg for 4,535.9 kg base | **19034** | $1,000.00 |





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# Electronic Floor Scale Underdeck Kits



*Scale Underdeck kits are provided to meet the application needs of the electronic floor scale producer and are an easy source for rebuilding existing floor scales. Underdeck kits are provided with mounting plates and load cell bolts for easy installation.*

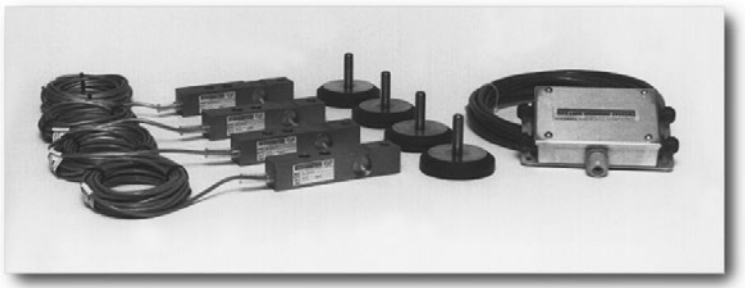
## Stainless Steel Load Cells

| Chemical, Dry Corrosive & Non-washdown Applications |
|---|
| **Kit Includes** |
| (4) VPG Celtron SQB-HSS stainless steel load cells |
| (1) JB4SS stainless steel NEMA Type 4X junction box |
| (4) Surefoot high-accuracy stainless steel support feet |
| 20 ft (6.1 m) EL147HE load cell cable |
| (4) mounting plates and (8) load cell bolts |

*NOTE: For complete load cell specifications, see SQB-HSS*

## Order Information

| Load Cell/Base Capacity | | Part # | Price |
|---|---|---|---|
| **Kit Includes VPG Celtron SQB-HSS Stainless Steel Load Cells** | | | |
| 1,000 lb for 2,000 lb base | 453.6 kg for 907.2 kg base | **19035** | $1,300.00 |
| 2,500 lb for 5,000 lb base | 1,134.0 kg for 2,268.0 kg base | **19036** | $1,300.00 |
| 4,000 lb for 10,000 lb base | 1,814.4 kg for 4,535.9 kg base | **19037** | $1,300.00 |



## Welded-Seal Stainless Steel Load Cells

| Wet Corrosive Applications |
|---|
| **Kit Includes** |
| (4) RL35083 welded-seal stainless steel load cells |
| (1) JB4SS stainless steel NEMA Type 4X junction box |
| (4) Surefoot high-accuracy stainless steel support feet |
| 20 ft (6.1 m) EL147HE load cell cable |
| (4) mounting plates and (8) load cell bolts |

## Order Information

| Load Cell/Base Capacity (Per Module) | | Part # | Price |
|---|---|---|---|
| **Kit Includes RL35083 Welded-Seal Load Cells** | | | |
| 1,000 lb for 2,000 lb base | 453.6 kg for 907.2 kg base | **19038** | $1,610.00 |
| 2,500 lb for 5,000 lb base | 1,134.0 kg for 2,268.0 kg base | **19039** | $1,610.00 |
| 4,000 lb for 10,000 lb base | 1,814.4 kg for 4,535.9 kg base | **19040** | $1,610.00 |



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S-BEAM

# RL20000I

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 III/1:10,000 IIIL, IP67




## APPROVALS

FM C US APPROVED

NTEP

## Interchangeable Products

ARTECH®

**20210 (1-14 UNF)** *(15,000 lb thread is 1-12 UNF for Rice Lake model)*

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

**ITCM**
**Isolated Tension Cell Mount** ..... —

## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E |
|---|---|---|---|---|---|
| **lb/in** | | | | | |
| 25-300 | 1/4-28 UNF | 0.75 | 0.50 | 2.00 | 2.50 |
| 500-1,500 | 1/2-20 UNF | 1.00 | 0.75 | 2.00 | 2.50 |
| 2,000-2,500 | 1/2-20 UNF | 1.25 | 1.00 | 2.00 | 2.50 |
| 3,000 | 1/2-20 UNF | 1.25 | 1.00 | 3.00 | 4.00 |
| 5,000-10,000 | 3/4-16 UNF | 1.25 | 1.00 | 3.00 | 4.00 |
| 15,000 | 1-12 UNF | 1.50 | 1.25 | 4.00 | 5.50 |
| 20,000 | 1 1/4-12 UNF | 2.25 | 2.00 | 5.00 | 7.00 |
| **kg/mm** | | | | | |
| 11.3-136.1 | 1/4-28 UNF | 19.1 | 12.7 | 50.8 | 63.5 |
| 226.8-680.4 | 1/2-20 UNF | 25.4 | 19.1 | 50.8 | 63.5 |
| 907.2-1,134.0 | 1/2-20 UNF | 31.8 | 25.4 | 50.8 | 63.5 |
| 1,360.8 | 1/2-20 UNF | 31.8 | 25.4 | 76.2 | 101.6 |
| 2,268.0-4,535.9 | 3/4-16 UNF | 31.8 | 25.4 | 76.2 | 101.6 |
| 6,803.9 | 1-12 UNF | 38.1 | 31.8 | 101.6 | 139.7 |
| 9,071.9 | 1 1/4-12 UNF | 57.2 | 50.8 | 127.0 | 177.8 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 25 lb | 11.3 kg | **21428** | 2 lb | $275.00 |
| 50 lb | 22.7 kg | **21429** | 2 lb | $275.00 |
| 75 lb | 34.0 kg | **21430** | 2lb | $275.00 |
| 100 lb | 45.4 kg | **21431** | 2 lb | $275.00 |
| 150 lb | 68.0 kg | **21432** | 2 lb | $275.00 |
| 200 lb | 90.7 kg | **21433** | 2 lb | $275.00 |
| 250 lb | 113.4 kg | **21434** | 2 lb | $275.00 |
| 300 lb | 136.1 kg | **21435** | 2 lb | $275.00 |
| 500 lb | 226.8 kg | **21436** | 2 lb | $275.00 |
| 750 lb | 340.2 kg | **21437** | 2 lb | $275.00 |
| 1,000 lb | 453.6 kg | **21438** | 2 lb | $275.00 |
| 1,500 lb | 680.4 kg | **21439** | 2 lb | $275.00 |
| 2,000 lb*** | 35 ft cable | **21356** | 2 lb | $338.00 |
| 2,000 lb | 907.2 kg | **21440** | 2 lb | $275.00 |
| 2,500 lb | 1,134.0 kg | **21441** | 2 lb | $275.00 |
| 3,000 lb | 1,360.8 kg | **21442** | 4 lb | $315.00 |
| 5,000 lb*** | 30 ft cable | **17044** | 4 lb | $476.00 |
| 5,000 lb | 2,268.0 kg | **21443** | 4 lb | $440.00 |
| 10,000 lb | 4,535.9 kg | **21444** | 4 lb | $440.00 |
| 15,000 lb | 6,803.9 kg | **21445** | 7 lb | $555.00 |
| 20,000 lb*** | 30 ft cable | **17045** | 17 lb | $937.00 |
| 20,000 lb | 9,071.9 kg | **21446** | 17 lb | $875.00 |
| **Conduit Adapter Kit* (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533*** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534*** | 1 lb | $33.00 |
| **Replacement Agriculture Scale Load Cell - 40 ft Cable** | | | | |
| 10,000 lb | 4,535.9 kg | **151746** | 5 lb | $465.00 |

**PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*

****These load cells have 30 ft or 35 ft of cable and trimmed outputs and are used in many batch plants*

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
385 (± 5) ohm

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range:
14°F to 104°F/-10°C to 40°C
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

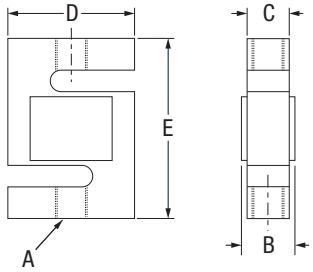
**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black -Excitation
Green +Signal
White -Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP






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# RL20000SS

Stainless Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Single Cell, IP67

## Interchangeable Products

VPG REVERE®
**9363** —

ARTECH®
**SS2010** —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**ITCM Isolated Tension Cell Mount** —

## Specifications

**Full Scale Output:**
3.0(± 0.008) mV/V

**Output Resistance:**
350 (± 3.5) ohm

**Input Resistance:**
390 (± 15) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

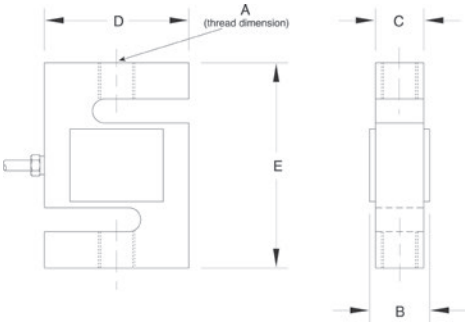
**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20ft (6.1m)

**Cable Color Code:**
Red +Excitation
Black -Excitation
Green +Signal
White -Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP




## APPROVALS

FM APPROVED

NTEP




## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E |
|---|---|---|---|---|---|
| **lb/in** | | | | | |
| 50-300 | 1/4-28 UNF | 0.65 | 0.46 | 2.00 | 2.40 |
| 500-1,000 | 1/2-20 UNF | 0.90 | 0.71 | 2.00 | 2.40 |
| 2,500 | 1/2-20 UNF | 1.15 | 0.96 | 2.00 | 2.40 |
| 3,000 | 1/2-20 UNF | 1.15 | 0.96 | 3.00 | 3.90 |
| 5,000 | 3/4-16 UNF | 1.15 | 0.96 | 3.00 | 3.90 |
| 10,000 | 3/4-16 UNF | 1.40 | 1.21 | 3.00 | 3.90 |
| 15,000 | 1-14 UNS | 1.63 | 1.46 | 3.44 | 5.50 |
| 20,000 | 1 1/4-12 UNF | 1.88 | 1.68 | 4.44 | 7.00 |
| **kg/mm** | | | | | |
| 22.7-136.0 | 1/4-28 UNF | 16.5 | 11.7 | 50.8 | 61.0 |
| 226.8-453.6 | 1/2-20 UNF | 22.9 | 18.0 | 50.8 | 61.0 |
| 1134.0 | 1/2-20 UNF | 29.2 | 24.4 | 50.8 | 61.0 |
| 1360.8 | 1/2-20 UNF | 29.2 | 24.4 | 76.2 | 99.1 |
| 2268.0 | 3/4-16 UNF | 29.2 | 24.4 | 76.2 | 99.1 |
| 4535.9 | 3/4-16 UNF | 35.7 | 30.7 | 76.2 | 99.1 |
| 6803.9 | 1-14 UNS | 41.4 | 37.1 | 87.4 | 139.7 |
| 9071.9 | 1 1/4-12 UNF | 47.8 | 42.8 | 112.8 | 177.8 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 100 lb | 45.4 kg | **46511** | 2 lb | $295.00 |
| 250 lb | 113.4 kg | **46503** | 2 lb | $295.00 |
| 300 lb | 136.0 kg | **181826** | 2 lb | $295.00 |
| 500 lb | 226.8 kg | **46504** | 2 lb | $295.00 |
| 750 lb | 340.2 kg | **46505** | 2 lb | $295.00 |
| 1,000 lb | 453.6 kg) | **46506** | 2 lb | $295.00 |
| 2,500 lb | 1,134.0 kg | **46507** | 2 lb | $295.00 |
| 3,000 lb | 1,360.8 kg | **46508** | 4 lb | $325.00 |
| 5,000 lb | 2,268.0 kg | **46509** | 4 lb | $475.00 |
| 10,000 lb | 4,535.9 kg | **46510** | 4 lb | $495.00 |
| **Non-NTEP Certified** | | | | |
| 50 lb | 22.7 kg | **17013** | 2 lb | $295.00 |
| 15,000 lb | 6,804.0 kg | **158375** | 7 lb | $675.00 |
| 20,000 lb | 9,072.0 kg | **158376** | 13 lb | $895.00 |
| **Conduit Adapter Kit* (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533*** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534*** | 1 lb | $33.00 |

** PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*



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S-BEAM

# RL20000ST

Stainless Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Single Cell, IP67




## APPROVALS

FM APPROVED

NTEP

## Dimensions

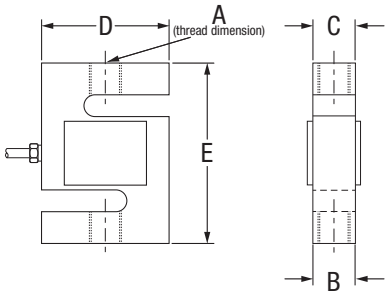
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E |
|---|---|---|---|---|---|
| **lb/in** | | | | | |
| 50-300 | 1/4-28 UNF | 0.65 | 0.46 | 2.00 | 2.40 |
| 500-1,000 | 1/2-20 UNF | 0.90 | 0.71 | 2.00 | 2.40 |
| 1,500-2,500 | 1/2-20 UNF | 1.15 | 0.96 | 2.00 | 2.40 |
| 3,000 | 1/2-20 UNF | 1.15 | 0.96 | 3.00 | 3.90 |
| 5,000 | 3/4-16 UNF | 1.15 | 0.96 | 3.00 | 3.90 |
| **kg/mm** | | | | | |
| 22.7-136.0 | 1/4-28 UNF | 16.5 | 11.7 | 50.8 | 60.9 |
| 226.8-453.6 | 1/2-20 UNF | 22.9 | 18.0 | 50.8 | 60.9 |
| 680.4-1,134 | 1/2-20 UNF | 29.2 | 24.4 | 50.8 | 60.9 |
| 1,360.8 | 1/2-20 UNF | 29.2 | 24.4 | 76.2 | 99.1 |
| 2,268.0 | 3/4-16 UNF | 29.2 | 24.4 | 76.2 | 99.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50 lb | 22.7 kg | **72741** | 2 lb | $315.00 |
| 100 lb | 45.4 kg | **72742** | 2 lb | $315.00 |
| 200 lb | 90.72 kg | **72743** | 2 lb | $315.00 |
| 250 lb | 113.4 kg | **72744** | 2 lb | $315.00 |
| 300 lb | 136.0 kg | **72745** | 2 lb | $315.00 |
| 500 lb | 226.8 kg | **72746** | 2 lb | $315.00 |
| 750 lb | 340.2 kg | **72747** | 2 lb | $315.00 |
| 1,000 lb | 453.6 kg | **72748** | 2 lb | $315.00 |
| 1,500 lb | 680.4 kg | **72749** | 2 lb | $315.00 |
| 2,000 lb | 907.2 kg | **72750** | 2 lb | $315.00 |
| 2,500 lb | 1,134.0 kg | **72751** | 2 lb | $315.00 |
| 3,000 lb | 1,360.8 kg | **72752** | 4 lb | $415.00 |
| 5,000 lb | 2,268.0 kg | **72753** | 4 lb | $515.00 |
| **Conduit Adapter Kit* (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533*** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534*** | 1 lb | $33.00 |

**PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit.*




## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (±3.5) ohm

**Input Resistance:**
430 (± 60) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.190 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black -Excitation
Green +Signal
White -Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL20001I

Alloy Steel, Environmentally Sealed, NTEP Certified Single Cell 1:5,000 III/1:10,000 IIIL, IP67

## Interchangeable Products

VPG CELTRON®
**STC** ..... —

VPG SENSORTRONICS®
**60001** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**ITCM**
**Isolated Tension Cell Mount** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
385 (± 5) ohm

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VAC/DC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS

FM APPROVED

NTEP




## Dimensions

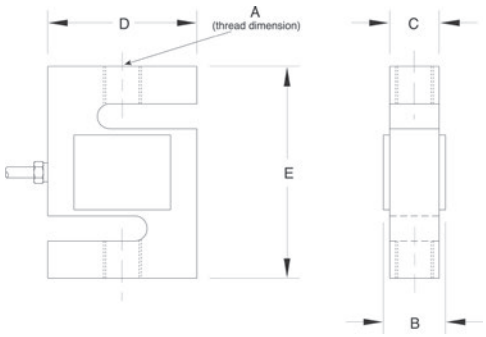
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E |
|---|---|---|---|---|---|
| **lb/in** | | | | | |
| 250 | 3/8-24 UNF | 0.75 | 0.50 | 2.00 | 3.00 |
| 500-2,000 | 1/2-20 UNF | 1.00 | 0.75 | 2.00 | 3.00 |
| 2,500-3,000 | 1/2-20 UNF | 1.25 | 1.00 | 2.00 | 3.00 |
| 5,000 | 3/4-16 UNF | 1.25 | 1.00 | 3.00 | 4.25 |
| 10,000 | 3/4-16 UNF | 1.25 | 1.00 | 3.50 | 4.75 |
| 15,000 | 1-14 UNS | 1.50 | 1.25 | 4.00 | 5.50 |
| 20,000 | 1 1/4-12 UNF | 2.25 | 2.00 | 5.00 | 7.00 |
| **kg/mm** | | | | | |
| 113.4 | 3/8-24 UNF | 19.1 | 12.7 | 50.8 | 76.2 |
| 226.8-907.2 | 1/2-20 UNF | 25.4 | 19.1 | 50.8 | 76.2 |
| 1,134.0-1,360.8 | 1/2-20 UNF | 31.8 | 25.4 | 50.8 | 76.2 |
| 2,268.0 | 3/4-16 UNF | 31.8 | 25.4 | 76.2 | 108.8 |
| 4,535.9 | 3/4-16 UNF | 31.8 | 25.4 | 88.9 | 120.7 |
| 6,803.9 | 1-14 UNS | 38.1 | 31.8 | 101.6 | 139.7 |
| 9,071.9 | 1 1/4-12 UNF | 57.2 | 50.8 | 127.0 | 177.8 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 250 lb | 113.4 kg | **21402** | 2 lb | $275.00 |
| 500 lb | 226.8 kg | **21403** | 2 lb | $275.00 |
| 750 lb | 340.2 kg | **21404** | 2 lb | $275.00 |
| 1,000 lb | 453.6 kg | **21405** | 2 lb | $275.00 |
| 1,500 lb | 680.4 kg | **21406** | 2 lb | $275.00 |
| 2,000 lb | 907.2 kg | **21407** | 3 lb | $275.00 |
| 2,500 lb | 1,134.0 kg | **21408** | 4 lb | $275.00 |
| 3,000 lb | 1,360.8 kg | **21409** | 3 lb | $315.00 |
| 5,000 lb | 2,268.0 kg | **21410** | 4 lb | $440.00 |
| 10,000 lb | 4,535.9 kg | **21411** | 5 lb | $440.00 |
| 15,000 lb | 6,803.9 kg | **21412** | 7 lb | $555.00 |
| 20,000 lb | 9,071.9 kg | **21413** | 16 lb | $875.00 |
| **Conduit Adapter Kit* (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533*** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534*** | 1 lb | $33.00 |

**PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*








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S-BEAM

# RL20001HE

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III/1:10,000 Class IIIL Single Cell, IP68



## APPROVALS

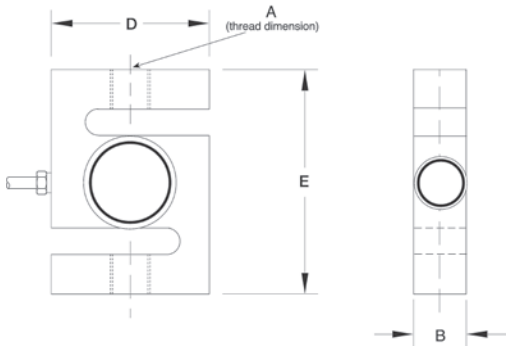
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | D | E |
|---|---|---|---|---|
| **lb/in** | | | | |
| 500-3,000 | 1/2-20 UNF | 1.00 | 2.00 | 3.00 |
| 5,000-10,000 | 3/4-16 UNF | 1.00 | 3.50 | 4.75 |
| **kg/mm** | | | | |
| 226.8-1,360.8 | 1/2-20 UNF | 25.4 | 50.8 | 76.2 |
| 2,268.0-4,535.9 | 3/4-16 UNF | 25.4 | 88.9 | 120.7 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 500 lb | 226.8 kg | **46469** | 2 lb | $850.00 |
| 750 lb | 340.2 kg | **46470** | 2 lb | $850.00 |
| 1,000 lb | 453.6 kg | **46471** | 2 lb | $850.00 |
| 1,500 lb | 680.4 kg | **46472** | 2 lb | $850.00 |
| 2,000 lb | 907.2 kg | **46473** | 2 lb | $850.00 |
| 2,500 lb | 1,134.0 kg | **46474** | 2 lb | $850.00 |
| 3,000 lb | 1,360.8 kg | **46475** | 2 lb | $850.00 |
| 5,000 lb | 2,268.0 kg | **46476** | 5 lb | $1,135.00 |
| **Non-NTEP Certified** | | | | |
| 10,000 lb | 4,535.9 kg | **36292** | 5 lb | $1,135.00 |




## Interchangeable Products

VPG SENSORTRONICS®

**60063** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

**ITCM HE Isolated Tension Cell Mount** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP68

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20 ft (6.1m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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## Specifications

**Full Scale Output:**
3.0 mV/V ±0.25%

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
Alloy steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VAC/DC (15V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
6m (19.7ft)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
OIML

## APPROVALS









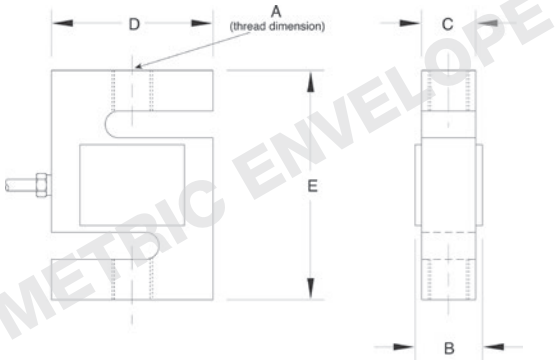
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E |
|---|---|---|---|---|---|
| **kg/mm** | | | | | |
| 250-1,000 | M12 x 1.75-6H | 25.4 | 19.1 | 50.8 | 76.0 |
| 2,500 | M20 x 1.5-6H | 31.8 | 25.4 | 76.2 | 108.0 |
| **lb/in** | | | | | |
| 551.2-2,205.0 | M12 x 1.75-6H | 1.00 | 0.75 | 2.00 | 3.00 |
| 5,512.5 | M20 x 1.5-6H | 1.25 | 1.00 | 3.00 | 4.25 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 250 kg | 551.2 lb | **31254** | 2 lb | $295.00 |
| 500 kg | 1,102.3 lb | **31255** | 2 lb | $295.00 |
| 1,000 kg | 2,205.0 lb | **31256** | 2 lb | $295.00 |
| 2,500 kg | 5,512.5 lb | **31257** | 3 lb | $460.00 |




METRIC ENVELOPE





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SINGLE-ENDED BEAM

# RL32018

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP66




## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

VPG SENSORTRONICS®
**65023A** ..... —

VPG CELTRON®
**SQB** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210TA** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** ..... —

## Dimensions

*Picture is a representation of actual product*

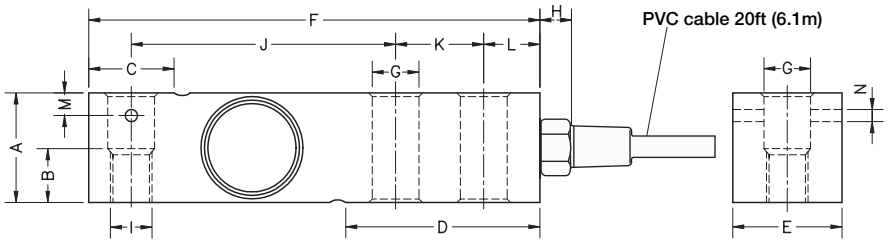
| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 500 | 1.00 | 0.59 | 0.96 | 2.20 | 1.24 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 1,000-5,000 SE | 1.24 | 0.59 | 0.96 | 2.20 | 1.24 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 5,000 LE-10,000 | 1.50 | - | 1.45 | 2.99 | 1.50 | 6.75 | 0.80 | 0.70 | 3/4-16 UNF | 3.75 | 1.50 | 0.75 | - | - |
| 15,000-20,000 | 2.00 | - | - | 4.00 | 2.00 | 8.75 | 1.06 | - | 1-14 UNS | 4.90 | 2.00 | 1.00 | - | - |
| **kg/mm** | | | | | | | | | | | | | | |
| 226.8 | 25.4 | 15.0 | 24.4 | 55.9 | 25.4 | 130.0 | 13.5 | 17.8 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.4 | 3.3 |
| 453.6-2,268 | 31.5 | 15.0 | 24.4 | 55.9 | 31.5 | 130 | 13.5 | 17.8 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.4 | 3.3 |
| 2,268-4,535.9 | 38.1 | - | 36.8 | 75.9 | 38.1 | 171.5 | 20.3 | 17.8 | 3/4-16 UNF | 95.3 | 38.1 | 19.1 | - | - |
| 6,803.9-9,071.8 | 50.8 | - | - | 101.6 | 50.8 | 222.25 | 26.9 | - | 1-14 UNS | 123.95 | 50.8 | 25.4 | - | - |

*Call Rice Lake for additional information*

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 1,000 lb | 453.6 kg | **189152** | 2 lb | $295.00 |
| 1,500 lb | 680.4 kg | **191732** | 2 lb | $295.00 |
| 2,000 lb | 907.2 kg | **189153** | 2 lb | $295.00 |
| 2,500 lb | 1,134 kg | **189154** | 2 lb | $295.00 |
| 3,000 lb | 1,360.8 kg | **189155** | 5 lb | $295.00 |
| 4,000 lb | 1,814.4 kg | **189156** | 5 lb | $295.00 |
| 5,000 lb SE | 2,268 kg | **189157** | 5 lb | $295.00 |
| 5,000 lb LE | 2,268 kg | **189158** | 5 lb | $375.00 |
| 10,000 lb | 4,535.9 kg | **189159** | 5 lb | $375.00 |
| **Non-NTEP Certified** | | | | |
| 500 lb | 226.8 kg | **189151** | 2 lb | $295.00 |
| 15,000 lb* | 6,803.9 kg | **189160** | 10 lb | $645.00 |
| 20,000 lb* | 9,071.8 kg | **189161** | 10 lb | $645.00 |
| **With Over Braid Cable** | | | | |
| 20,000 lb* | 9,071.8 kg | **197558** | 10 lb | $725.00 |

*SE=small envelope; LE=large envelope*
** Pending NTEP*




## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Alloy steel, nickel plated

**Temperature:**
Compensated range:
-14° F to 104° F/-10° C to 40° C
Operating range:
0° F to 150° F/-18° C to 65° C

**Seal Type:**
Environmentally sealed, IP66

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
10 VDC (15 V maximum)

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
>5,000 megohms

**Deflection:**
0.2 mm - 0.4 mm

**Cable Length:**
20 ft (6.1 m)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL32018S

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP66

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL35023S** —

VPG SENSORTRONICS®
**65023S** —

VPG SENSORTRONICS®
**65023SS** —

VPG CELTRON®
**SQB-HSS** —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210TA** —

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14° F to 104° F/-10° C to 40° C
Operating range:
0° F to 150° F/-18° C to 65° C

**Seal Type:**
Environmentally sealed, IP66

**Safe Overload:**
150% full scale

**Rated Excitation:**
10 VDC (15 V maximum)

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
>5,000 megohms

**Deflection:**
0.2 mm - 0.4 mm

**Cable Length:**
20 ft (6.1 m)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS




## Dimensions

*Picture is a representation of actual product*

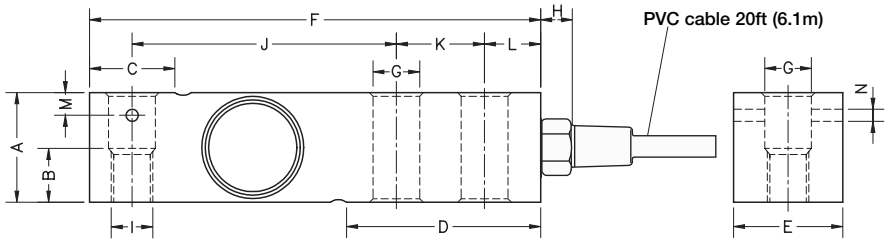
| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 500 | 1.00 | 0.59 | 0.96 | 2.20 | 1.24 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 1,000-5,000 SE | 1.24 | 0.59 | 0.96 | 2.20 | 1.24 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 5,000 LE-10,000 | 1.50 | - | 1.45 | 2.99 | 1.50 | 6.75 | 0.80 | 0.70 | 3/4-16 UNF | 3.75 | 1.50 | 0.75 | - | - |
| 15,000-20,000 | 2.00 | - | - | 4.00 | 2.00 | 8.75 | 1.06 | - | 1-14 UNS | 4.90 | 2.00 | 1.00 | - | - |
| **kg/mm** | | | | | | | | | | | | | | |
| 226.8 | 25.4 | 15.0 | 24.4 | 55.9 | 25.4 | 130.0 | 13.5 | 17.8 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.4 | 3.3 |
| 453.6-2,268 | 31.5 | 15.0 | 24.4 | 55.9 | 31.5 | 130 | 13.5 | 17.8 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.4 | 3.3 |
| 2,268-4,535.9 | 38.1 | - | 36.8 | 75.9 | 38.1 | 171.5 | 20.3 | 17.8 | 3/4-16 UNF | 95.3 | 38.1 | 19.1 | - | - |
| 6,803.9-9,071.8 | 50.8 | - | - | 101.6 | 50.8 | 222.25 | 26.9 | - | 1-14 UNS | 123.95 | 50.8 | 25.4 | - | - |

*Call Rice Lake for additional information*

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 1,000 lb | 453.6 kg | **189164** | 3 lb | $325.00 |
| 2,000 lb | 907.2 kg | **189165** | 3 lb | $325.00 |
| 2,500 lb | 1,134 kg | **189166** | 3 lb | $325.00 |
| 4,000 lb | 1,814.4 kg | **189167** | 3 lb | $325.00 |
| 5,000 lb SE | 2,268 kg | **189168** | 3 lb | $325.00 |
| 5,000 lb LE | 2,268 kg | **189169** | 5 lb | $415.00 |
| 10,000 lb | 4,535.9 kg | **189170** | 5 lb | $415.00 |
| **Non-NTEP Certified** | | | | |
| 500 lb | 226.8 kg | **189163** | 3 lb | $325.00 |
| 15,000 lb* | 6,803.9 kg | **189171** | 10 lb | $695.00 |
| 20,000 lb* | 9,071.8 kg | **189172** | 10 lb | $695.00 |

*SE=small envelope; LE=large envelope*
**Pending NTEP*








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SINGLE-ENDED BEAM

# RL32018S-P

Stainless Steel, Hermetically Sealed, IP69K




## APPROVALS

FM C US APPROVED

## Dimensions

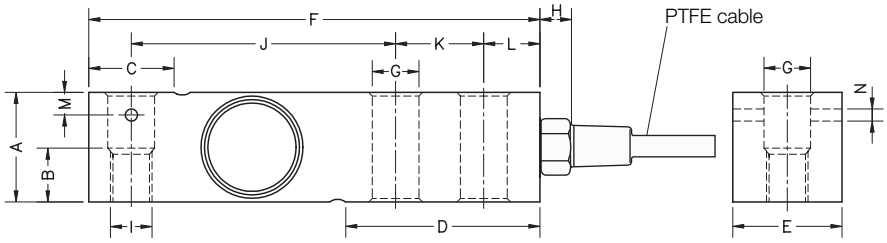
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-5,000 SE | 1.24 | 0.59 | 0.96 | 2.20 | 1.25 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 5,000 LE-10,000 | 1.50 | - | 1.45 | 2.99 | 1.50 | 6.75 | 0.80 | 0.70 | 3/4-16 UNF | 3.75 | 1.50 | 0.75 | - | - |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-2,268 | 31.8 | 14.9 | 24.4 | 55.8 | 31.8 | 130.0 | 13.5 | 17.78 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.4 | 3.3 |
| 2,268-4,535.9 | 38.1 | - | 36.8 | 75.9 | 38.1 | 171.5 | 20.3 | 17.78 | 3/4-16 UNF | 95.3 | 38.1 | 19.0 | - | - |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **190654** | 3 lb | $350.00 |
| 2,000 lb | 907.2 kg | **190655** | 3 lb | $350.00 |
| 2,500 lb | 1,134 kg | **190656** | 3 lb | $350.00 |
| 4,000 lb | 1,814.4 kg | **190657** | 3 lb | $350.00 |
| 5,000 lb SE | 2,268 kg | **190658** | 3 lb | $350.00 |
| 5,000 lb LE | 2,268 kg | **190659** | 5 lb | $395.00 |
| 10,000 lb | 4,535.9 kg | **190660** | 5 lb | $395.00 |

*SE=small envelope; LE=large envelope*




## Interchangeable Products

VPG SENSORTRONICS®
**65083** — 

VPG CELTRON®
**SQB-HSS** — 

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** — 

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless Steel

**Temperature:**
Compensated range:
-14° F to 104° F/-10° C to 40° C
Operating range:
0° F to 150° F/-18° C to 65° C

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
10 VDC (15 V maximum)

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
>5,000 megohms

**Deflection:**
0.2 mm - 0.4 mm

**Cable Length:**
20 ft (6.1 m)

**Cable Color Code:**
Red + Excitation
Black – Excitation
Green + Signal
White – Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus



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# RL32018S-HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP69K

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL32018S-P (non-NTEP)** ..... —

VPG SENSORTRONICS®
**65083** ..... —

VPG CELTRON®
**SQB-HSS** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** ..... —

## APPROVALS

FM C US APPROVED

NTEP




## Specifications

**Full Scale Output:**
3.0 mV/V ±0.05% current matched

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14° F to 104° F/-10° C to 40° C
Operating range:
0° F to 200° F/-18° C to 93° C

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
>5,000 megohms

**Cable Length:**
20 ft (6.1 m) PTFE

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

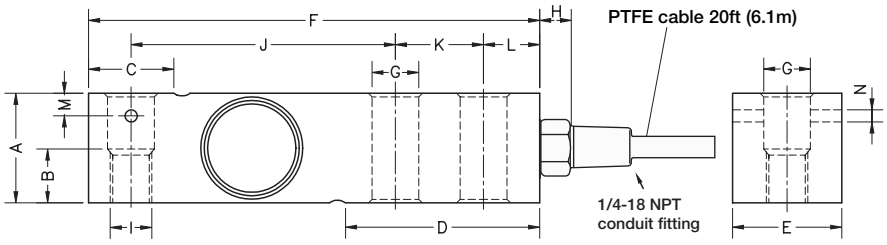
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-4,000 | 1.24 | 0.59 | 0.96 | 2.20 | 1.24 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 5,000-10,000 | 1.50 | 0.75 | 1.45 | 2.99 | 1.50 | 6.75 | 0.80 | 0.70 | 3/4-16 UNF | 3.75 | 1.50 | 0.75 | - | - |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-1,814.4 | 31.5 | 15.0 | 24.4 | 55.9 | 31.5 | 130.0 | 13.5 | 17.8 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.5 | 3.5 |
| 2,268-4,535.9 | 38.1 | 19.1 | 36.8 | 76.0 | 38.5 | 171.5 | 20.3 | 17.8 | 3/4-16 UNF | 95.2 | 38.1 | 19.1 | - | - |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **189176** | 3 lb | $405.00 |
| 2,000 lb | 907.2 kg | **189178** | 3 lb | $405.00 |
| 2,500 lb | 1,134 kg | **189179** | 3 lb | $405.00 |
| 4,000 lb | 1,814.4 kg | **189181** | 3 lb | $405.00 |
| 5,000 lb | 2,268 kg | **189182** | 5 lb | $450.00 |
| 10,000 lb | 4,535.9 kg | **189183** | 5 lb | $450.00 |






www.ricelake.com | Phone: 800-472-6703



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SINGLE-ENDED BEAM

# RL32019S-HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP69K



## APPROVALS

FM C US APPROVED

NTEP

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS

**RL35082HE** (30 ft cable) — —

VPG SENSORTRONICS®

**65083S** (20 ft cable) — —

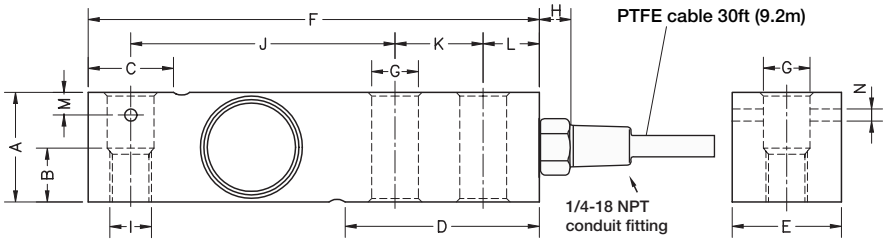
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-4,000 | 1.24 | 0.59 | 0.96 | 2.20 | 1.24 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 5,000-10,000 | 1.50 | 0.75 | 1.45 | 2.99 | 1.50 | 6.75 | 0.80 | 0.70 | 3/4-16 UNF | 3.75 | 1.50 | 0.75 | - | - |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-1,814.4 | 31.5 | 15.0 | 24.4 | 55.9 | 31.5 | 130.0 | 13.5 | 17.8 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.5 | 3.5 |
| 2,268-4,535.9 | 38.1 | 19.1 | 36.8 | 76.0 | 38.5 | 171.5 | 20.3 | 17.8 | 3/4-16 UNF | 95.2 | 38.1 | 19.1 | - | - |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **191629** | 4 lb | $455.00 |
| 2,500 lb | 1,134 kg | **191630** | 4 lb | $455.00 |
| 4,000 lb | 1,814.4 kg | **191631** | 4 lb | $455.00 |
| 5,000 lb | 2,268 kg | **191632** | 6 lb | $505.00 |
| 10,000 lb | 4,535.9 kg | **191633** | 6 lb | $505.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V ±0.05% current matched

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14° F to 104° F/-10° C to 40° C
Operating range:
0° F to 200° F/-18° C to 93° C

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
>5,000 megohms

**Deflection:**
0.2 mm - 0.4 mm

**Cable Length:**
30 ft (9.2 m) PTFE

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL32218S-HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP69K

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL35082HE** ..... —

VPG SENSORTRONICS®
**65083S** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210TA** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** ..... —

## APPROVALS

FM C US APPROVED

NTEP




## Specifications

**Full Scale Output:**
2.0 mV/V ±0.05% current matched

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14° F to 104° F/-10° C to 40° C
Operating range:
0° F to 200° F/-18° C to 93° C

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
>5,000 megohms

**Cable Length:**
20 ft (6.1 m) PTFE

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

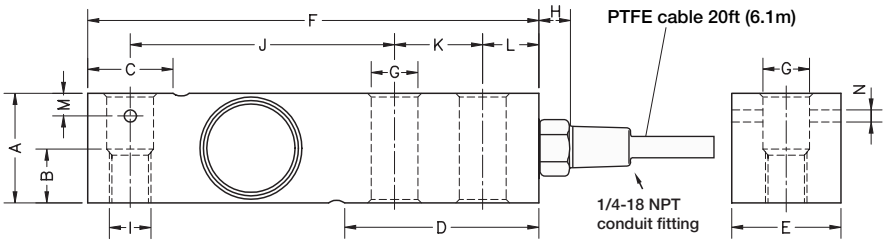
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | |
| 1,000-4,000 | 1.24 | 0.59 | 0.96 | 2.20 | 1.24 | 5.12 | 0.53 | 0.70 | 1/2-20 UNF | 3.00 | 1.00 | 0.62 | 0.25 | 0.13 |
| 5,000-10,000 | 1.50 | 0.75 | 1.45 | 2.99 | 1.50 | 6.75 | 0.80 | 0.70 | 3/4-16 UNF | 3.75 | 1.50 | 0.75 | - | - |
| **kg/mm** | | | | | | | | | | | | | | |
| 453.6-1,814.4 | 31.5 | 15.0 | 24.4 | 55.9 | 31.5 | 130.0 | 13.5 | 17.8 | 1/2-20 UNF | 76.2 | 25.4 | 15.7 | 6.5 | 3.5 |
| 2,268-4,535.9 | 38.1 | 19.1 | 36.8 | 76.0 | 38.5 | 171.5 | 20.3 | 17.8 | 3/4-16 UNF | 95.2 | 38.1 | 19.1 | - | - |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **191634** | 3 lb | $405.00 |
| 2,500 lb | 1,134 kg | **191635** | 3 lb | $405.00 |
| 4,000 lb | 1,814.4 kg | **191636** | 3 lb | $405.00 |
| 5,000 lb | 2,268 kg | **191637** | 5 lb | $450.00 |
| 10,000 lb | 4,535.9 kg | **191638** | 5 lb | $450.00 |








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SINGLE-ENDED BEAM

# RL9018SS

Stainless Steel, Hermetically Sealed, NTEP Certified1:4,000S/1:5,000M, OIML C3, IP68



## APPROVALS

FM APPROVED

NTEP

OIML

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RLHBB** ..... —

VPG TEDEA®
**355** ..... —

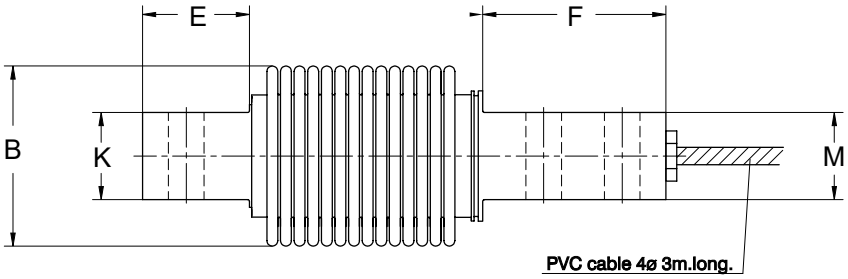
## Dimensions

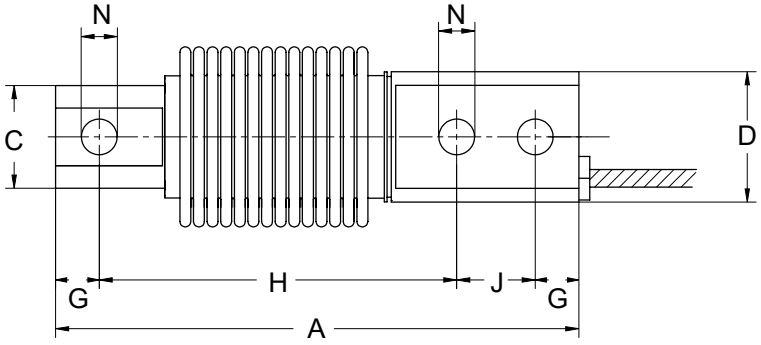
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | J | K | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | |
| 5-500 | 120.0 | 41.5 | 23.5 | 30.0 | 24.5 | 42.0 | 10.0 | 82.0 | 18.0 | 20.0 | 20.0 | 8.2 |
| **lb/in** | | | | | | | | | | | | |
| 11-1,102.3 | 4.72 | 1.63 | 0.93 | 1.18 | 0.96 | 1.65 | 0.39 | 3.23 | 0.71 | 0.79 | 0.79 | 0.32 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 5 kg | 11 lb | **188691** | 2 lb | $495.00 |
| 10 kg | 22 lb | **188692** | 2 lb | $495.00 |
| 20 kg | 44.1 lb | **188693** | 2 lb | $495.00 |
| 30 kg | 66.1 lb | **188694** | 2 lb | $495.00 |
| 50 kg | 110.2 lb | **188702** | 2 lb | $495.00 |
| 75 kg | 165.3 lb | **188695** | 2 lb | $495.00 |
| 100 kg | 220.5 lb | **188696** | 2 lb | $495.00 |
| 200 kg | 440.9 lb | **188697** | 2 lb | $495.00 |
| 250 kg | 551.2 lb | **188698** | 2 lb | $495.00 |
| 300 kg | 661.4 lb | **188699** | 2 lb | $495.00 |
| 500 kg | 1,102.3 lb | **188700** | 2 lb | $495.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V ±10% current matched

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14° F to 104° F/-10° C to 40° C
Operating range:
0° F to 150° F/-18° C to 65° C

**Seal Type:**
Hermetically sealed, IP68

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
>5,000 megohms

**Deflection:**
0.2 mm - 0.4 mm

**Cable Length:**
3 m (9.8 ft)

**Cable Material:**
PVC

**Cable Color Code:**
Blue +Excitation
Black –Excitation
White +Signal
Red –Signal
Green +Sense
Yellow -Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP
OIML



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# RL30000I

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 IIIL Class III Multiple Cell, IP67

## Interchangeable Products

VPG REVERE®
**5123** ..... —

VPG TEDEA-HUNTLEIGH®
**3411** ..... —

ARTECH®
**30310** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210 TA** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VAC/DC (15V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
250 lb to 1,000 lb=0.013 in (0.33 mm)
2,000 lb to 3,000 lb=0.015 in (0.38 mm)
4,000 lb to 5,000 lb=0.025 in (0.64 mm)
10,000 lb=0.032 in (0.81 mm)
15,000 lb to 20,000 lb=0.038 in (0.97 mm)

**Cable Length:**
20 ft (6.1m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS

FM APPROVED




## Dimensions

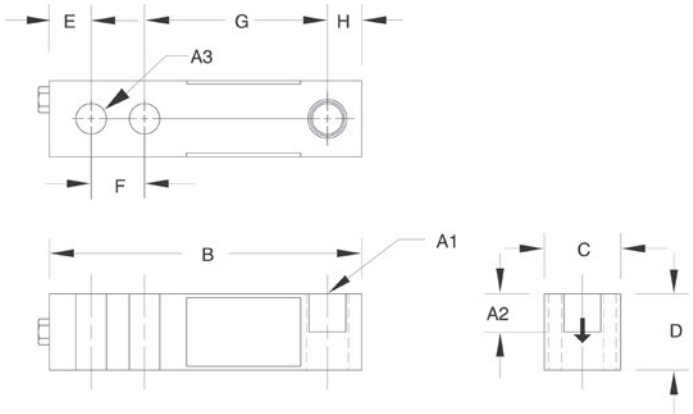
*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | A3 | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 250-5,000 SE | 1/2-20 UNF | 0.60 | 0.53 | 5.12 | 1.25 | 1.25 | 0.62 | 1.00 | 3.00 | 0.50 |
| 5,000 LE-10,000 | 3/4-16 UNF | 0.75 | 0.78 | 6.75 | 1.50 | 1.50 | 0.75 | 1.50 | 3.75 | 0.75 |
| 20,000 | 1-12 UNF | 1.00 | 1.03 | 8.75 | 2.00 | 2.00 | 1.00 | 2.00 | 4.75 | 1.00 |
| **kg/mm** | | | | | | | | | | |
| 113.4-2,268 SE | 1/2-20 UNF | 15.2 | 13.5 | 130.1 | 31.8 | 31.8 | 15.8 | 25.4 | 76.2 | 12.7 |
| 2,268.0 LE-4,535.9 | 3/4-16 UNF | 19.1 | 19.8 | 171.5 | 38.1 | 38.1 | 19.1 | 38.1 | 95.3 | 19.1 |
| 9,071.9 | 1-12 UNF | 25.4 | 26.2 | 222.3 | 50.8 | 50.8 | 25.4 | 50.8 | 120.7 | 25.4 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 1,000 lb | 453.6 kg | **21491** | 3 lb | $295.00 |
| 2,000 lb | 907.2 kg | **21493** | 3 lb | $295.00 |
| 2,500 lb | 1134.0 kg | **21495** | 3 lb | $295.00 |
| 3,000 lb | 1360.8 kg | **21497** | 3 lb | $295.00 |
| 4,000 lb | 1814.4 kg | **21498** | 3 lb | $295.00 |
| 5,000 lb SE | 2268.0 kg | **21500** | 3 lb | $295.00 |
| 5,000 lb LE | 2268.0 kg | **21501** | 5 lb | $375.00 |
| 10,000 lb | 4535.9 kg | **21503** | 5 lb | $375.00 |
| **Non-NTEP Certified** | | | | |
| 250 lb | 113.4 kg | **17341** | 3 lb | $295.00 |
| 500 lb | 226.8 kg | **17342** | 3 lb | $295.00 |
| 20,000 lb | 9071.9 kg | **17109** | 10 lb | $645.00 |
| **Conduit Adapter Kit (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534** | 1 lb | $33.00 |

*SE=small envelope; LE=large envelope*
*Dimension A1 is identical to A3 on the RL30002 thru-hole model*








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SINGLE-ENDED BEAM

# RL30002 Thru Hole

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 IIIL Class III Multiple Cell, IP67




## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

VPG TEDEA-HUNTLEIGH®
**3410** ..... —

ARTECH®
**30210** ..... —

## Dimensions

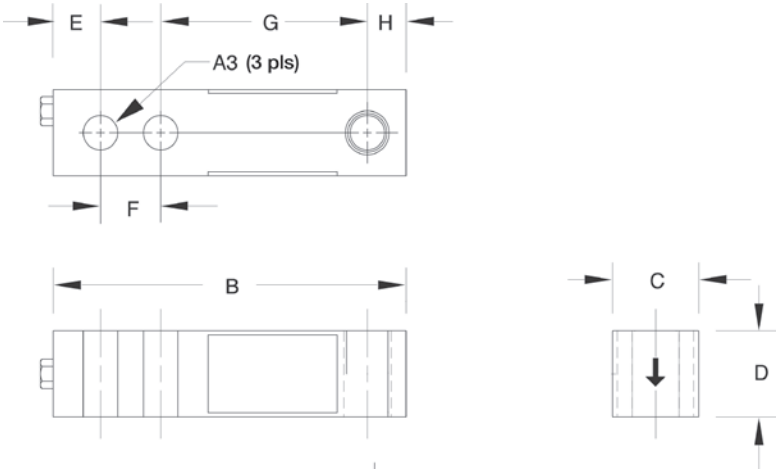
*Picture is a representation of actual product*

| Rated Capacity | A3* | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | |
| 1,000-5,000 SE | 0.53 | 5.12 | 1.25 | 1.25 | 0.62 | 1.00 | 3.00 | 0.50 |
| **kg/mm** | | | | | | | | |
| 453.6-2,268.0 SE | 13.5 | 130.1 | 31.8 | 31.8 | 15.8 | 25.4 | 76.2 | 12.7 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 1,000 lb | 453.6 kg | **21521** | 3 lb | $295.00 |
| 2,000 lb | 907.2 kg | **21522** | 3 lb | $295.00 |
| 2,500 lb | 1,134.0 kg | **21523** | 3 lb | $295.00 |
| 4,000 lb | 1,814.4 kg | **21524** | 3 lb | $295.00 |
| 5,000 lb SE | 2,268.0 kg | **21525** | 3 lb | $295.00 |
| **Conduit Adapter Kit (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534** | 1 lb | $33.00 |

*SE=small envelope*
** Dimension A1 is identical to A3 on the RL30002 thru-hole model*




## Specifications

**Full Scale Output:**
3.0 mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
1,000 lb=0.013 in (0.33 mm)
2,000 lb to 3,000 lb=0.015 in (0.38 mm)
4,000 lb to 5,000 lb=0.025 in (0.64 mm)

**Cable Length:**
20ft (6.1m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RLH35

Stainless Steel, NTEP Certified 1:5,000 Class IIIL Multiple Cell, Welded Seal, IP67

## Interchangeable Products

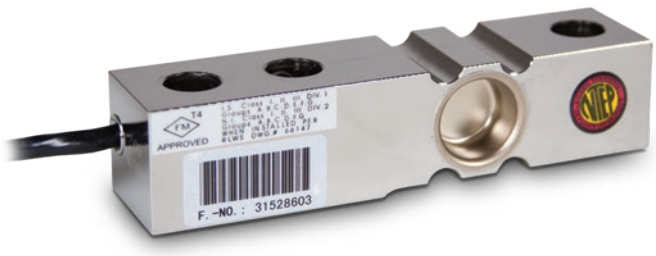
HBM
**H35** —

METTLER TOLEDO®
**500 lb-8 ft cable** —
TB601019-008
**1,000 lb-20 ft cable** —
TB601016-020
**2,500 lb-8 ft cable** —
TB601016-008

## APPROVALS

FM APPROVED

NTEP




## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 ohm, nominal

**Input Resistance:**
385 ohm, nominal

**Material/Finish:**
Stainless Steel

**Temperature:**
Compensated range:
14°F to 104°F/-10°C to 40°C
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20 ft (6.1m)

**Cable Diameter:**
0.190 polyurethane jacket

**Deflection at Capacity:**
500 lb to 5,000 lb=0.02 in (0.508 mm)

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP

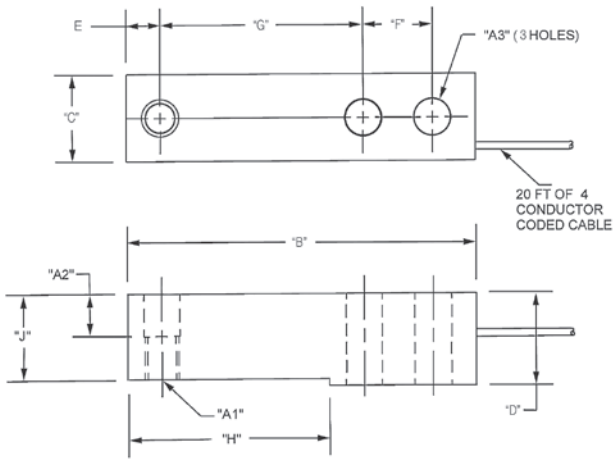
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | A3 | C | D | B | E | F | G | H | J |
|---|---|---|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | | | | |
| 500-5,000 | 1/2-20 UNF | 0.62 | 0.53 | 1.21 | 1.19 | 5.12 | 0.50 | 1.00 | 3.00 | 2. 85 | 1.120 |
| kg/mm | | | | | | | | | | | |
| 226.8-2,268.0 | 1/2-20 UNF | 15.8 | 13.5 | 30.7 | 30.2 | 130.05 | 12.7 | 25.4 | 76.2 | 72.4 | 28.4 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 500 lb | 226.8 kg | **106038** | 4 lb | $325.00 |
| 1,000 lb | 453.6 kg | **106039** | 4 lb | $325.00 |
| 2,500 lb | 1,134.0 kg | **106040** | 4 lb | $325.00 |
| 4,000 lb | 1,814.4 kg | **106041** | 4 lb | $325.00 |
| 5,000 lb | 2,268.0 kg | **106042** | 4 lb | $325.00 |






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SINGLE-ENDED BEAM

# RL39123

Stainless Steel, Environmentally Sealed, IP67




## Interchangeable Products

VPG REVERE®
**9123** ..... —

ARTECH®
**SS30310** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210 TA** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** ..... —

## APPROVALS

FM C US APPROVED

## Dimensions

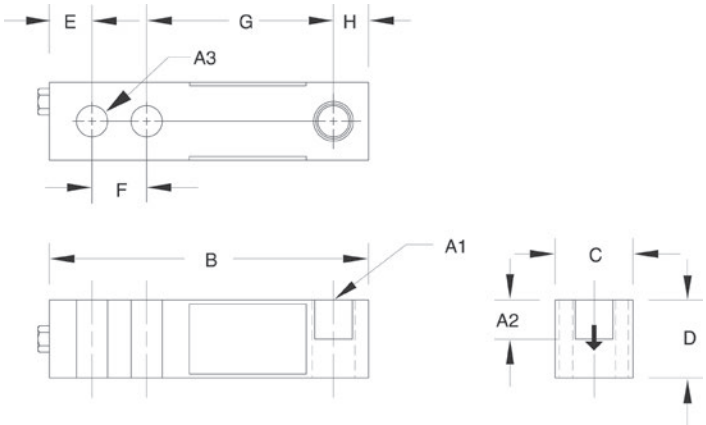
*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | A3 | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 250-4,000 | 1/2-20 UNF | 0.60 | 0.53 | 5.12 | 1.25 | 1.25 | 0.62 | 1.00 | 3.00 | 0.50 |
| 5,000-10,000 | 3/4-16 UNF | 0.75 | 0.78 | 6.75 | 1.50 | 1.50 | 0.75 | 1.50 | 3.75 | 0.75 |
| **kg/mm** | | | | | | | | | | |
| 113.4-1,814.4 | 1/2-20 UNF | 15.2 | 13.5 | 130.1 | 31.8 | 31.8 | 15.8 | 25.4 | 76.2 | 12.7 |
| 2,268.0-4,535.9 | 3/4-16 UNF | 19.1 | 19.8 | 171.5 | 38.1 | 38.1 | 19.1 | 38.1 | 95.3 | 19.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **20 ft cables** | | | | |
| 250 lb | 113.4 kg | **17386** | 3 lb | $325.00 |
| 500 lb | 226.8 kg | **17387** | 3 lb | $325.00 |
| 1,000 lb | 453.6 kg | **17189** | 3 lb | $325.00 |
| 2,500 lb | 1,134.0 kg | **17191** | 3 lb | $325.00 |
| 4,000 lb | 1,814.4 kg | **17193** | 3 lb | $325.00 |
| 5,000 lb | 2,268.0 kg | **17194** | 5 lb | $415.00 |
| 10,000 lb | 4,535.9 kg | **17195** | 5 lb | $415.00 |
| **30 ft cables** | | | | |
| 4,000 lb | 1,814.4 kg | **95562** | 3 lb | $345.00 |
| **Conduit Adapter Kit (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533*** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534*** | 1 lb | $33.00 |

** PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*




## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
349-355 ohm

**Input Resistance:**
343-357 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Nonlinearity:**
0.03% full scale

**Hysteresis:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
250 lb-1,000 lb=0.013 in (0.33 mm)
2,000 lb-3,000 lb=0.015 in (0.38 mm)
4,000 lb-5,000 lb=0.025 in (0.64 mm)
10,000 lb=0.32 in (0.81 mm)

**Cable Length:**
20 ft (6.1m)
30 ft (9.1m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus



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# RL32018S-T

Stainless Steel, Hermetically Sealed, NTEP Certified, 1:5,000 Class III Multiple Cell, IP69K

## Interchangeable Products

METTLER-TOLEDO®
**TB600529-500 lb** ..... —
METTLER-TOLEDO
**TB600363-1,250 lb** ..... —
METTLER-TOLEDO
**TB600342-2,500 lb** ..... —
METTLER-TOLEDO
**TB600343-5,000 lb** ..... —
METTLER-TOLEDO
**TB600364-10,000 lb** ..... —
HBM®
**THC** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RLTM** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14°F to 104°F/-10°C to 40°C
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
15 ft (4.6 m)
30 ft (9.1 m)

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS

FM APPROVED



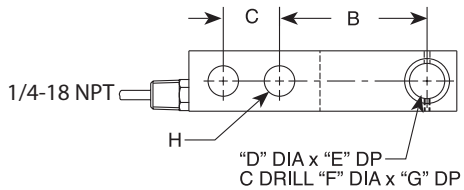

## Dimensions

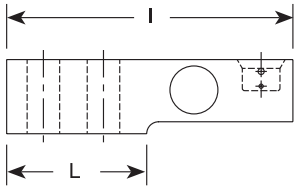
*Picture is a representation of actual product*

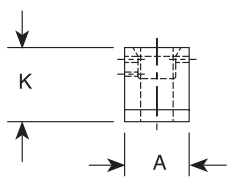
| Rated Capacity | A | B | C | D | E | F | G | H | I | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 500-2,500 | 1.20 | 3.00 | 1.00 | 0.63 | 0.68 | 0.507 | 0.189 | 0.500 | 5.25 | 1.22 | 2.27 |
| 5,000 | 1.46 | 3.00 | 1.00 | 0.63 | 0.92 | 0.539 | 0.38 | 0.500 | 5.38 | 1.40 | 2.28 |
| 10,000 | 1.68 | 3.75 | 1.50 | 0.88 | 1.06 | 0.533 | 0.44 | 0.750 | 6.87 | 1.68 | 3.03 |
| **kg/mm** | | | | | | | | | | | |
| 226.8-1,133.9 | 30.5 | 76.2 | 25.4 | 16.0 | 17.5 | 22.4 | 4.8 | 12.7 | 133.3 | 30.9 | 57.6 |
| 2,268.0 | 37.1 | 76.2 | 25.4 | 16.0 | 23.4 | 22.4 | 9.7 | 12.7 | 136.7 | 35.5 | 57.9 |
| 4,535.9 | 42.7 | 95.3 | 38.1 | 22.4 | 26.9 | 35.1 | 11.8 | 19.1 | 174.5 | 42.6 | 76.9 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **15 ft Cable** | | | | |
| 500 lb | 226.8 kg | **189189** | 3 lb | $450.00 |
| 1,250 lb | 907.2 kg | **189190** | 3 lb | $450.00 |
| 2,500 lb | 1,133.9 kg | **189191** | 3 lb | $450.00 |
| 5,000 lb | 2,268 kg | **189192** | 5 lb | $595.00 |
| 10,000 lb | 4,535.9 kg | **189193** | 5 lb | $715.00 |
| **30 ft Cable** | | | | |
| 500 lb | 226.8 kg | **191974** | 3 lb | $475.00 |
| 1,250 lb | 907.2 kg | **191975** | 3 lb | $475.00 |
| 2,500 lb | 1,133.9 kg | **191976** | 3 lb | $475.00 |
| 5,000 lb | 2,268 kg | **191977** | 5 lb | $625.00 |
| 10,000 lb | 4,535.9 kg | **191978** | 5 lb | $745.00 |
| **Replacement load pins** | | | | |
| Rocker pin | 500-4,000 lb | **108612** | 1 lb | $75.00 |
| Rocker pin | 5,000 lb | **130408** | 1 lb | $78.00 |
| Rocker pin | 10,000 lb | **131376** | 1 lb | $112.00 |
| O-ring (Two per pin) | — | **108202** | 1 lb | $1.00 |








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SINGLE-ENDED BEAM

# RL30745

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III Multiple, IP67

**DISCONTINUED**
**LIMITED STOCK AVAILABLE**




APPROVALS

FM APPROVED

NTEP

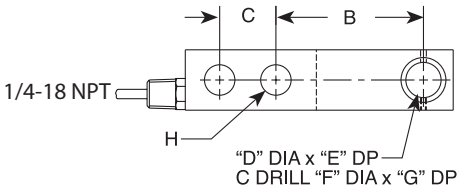
## Dimensions

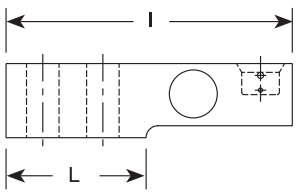
*Picture is a representation of actual product*

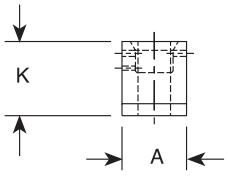
| Rated Capacity | A | B | C | D | E | F | G | H | I | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 500-2,500 | 1.20 | 3.00 | 1.00 | 0.63 | 0.68 | 0.88 | 0.189 | 0.500 | 5.25 | 1.22 | 2.27 |
| 5,000 | 1.46 | 3.00 | 1.00 | 0.63 | 0.92 | 0.88 | 0.38 | 0.500 | 5.38 | 1.40 | 2.28 |
| 10,000 | 1.68 | 3.75 | 1.50 | 0.88 | 1.06 | 1.38 | 0.44 | 0.750 | 6.87 | 1.68 | 3.03 |
| **kg/mm** | | | | | | | | | | | |
| 226.8-1,133.9 | 30.5 | 76.2 | 25.4 | 16.0 | 17.5 | 22.4 | 4.8 | 12.7 | 133.3 | 30.9 | 57.6 |
| 2,268.0 | 37.1 | 76.2 | 25.4 | 16.0 | 23.4 | 22.4 | 9.7 | 12.7 | 136.7 | 35.5 | 57.9 |
| 4,536.0 | 42.7 | 95.3 | 38.1 | 22.4 | 26.9 | 35.1 | 11.8 | 19.1 | 174.5 | 42.6 | 76.9 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **15 ft cables** | | | | |
| 1,250 lb | 567.0 kg | **101092** | 3 lb | $465.00 |
| **30 ft cables** | | | | |
| 500 lb | 226.8 kg | **76213** | 3 lb | $495.00 |
| 2,500 lb | 1,133.9 kg | **45463** | 3 lb | $495.00 |
| 5,000 lb | 2,268 kg | **45465** | 4 b | $625.00 |
| 10,000 lb | 4,536 kg | **45466** | 6 lb | $745.00 |
| **Replacement load pins** | | | | |
| Rocker pin | 500-4,000 lb | **108612** | 1 lb | $75.00 |
| Rocker pin | 5,000 lb | **130408** | 1 lb | $78.00 |
| Rocker pin | 10,000 lb | **131376** | 1 lb | $112.00 |
| O-ring (Two per pin) | — | **108202** | 1 lb | $1.00 |




## Interchangeable Products

METTLER-TOLEDO®
**TB600529-500 lb** ..... —

METTLER-TOLEDO
**TB600363-1,250 lb** ..... —

METTLER-TOLEDO
**TB600342-2,500 lb** ..... —

METTLER-TOLEDO
**TB600343-5,000 lb** ..... —

METTLER-TOLEDO
**TB600364-10,000 lb** ..... —

HBM®
**THC** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RLTM** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V, ±0.002 mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03%

**Non-repeatability:**
0.01% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
30 ft (9.1 m) or
15 ft (4.6 m)

**Cable Diameter:**
0.190 polyurethane jacket

**Deflection at Capacity:**
500 lb-2,500 lb=0.010 in (0.254 mm)
5,000 lb-10,000 lb=0.012 in (0.3048 mm)

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP



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# RL35023S Painted

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP67

## Interchangeable Products

VPG SENSORTRONICS®
**65023S*** ..... —

VPG SENSORTRONICS
**65023SS*** ..... —

VPG CELTRON®
**SQB-HSS*** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210 TA** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** ..... —

**Cells are unpainted*

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
349-355 ohm

**Input Resistance:**
343-357 ohm

**Material/Finish:**
Stainless steel, painted

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Deflection at Capacity:**
500 lb-1,500 lb=0.013 in (0.33 mm)
1,000 lb-5,000 lb=0.017 in-0.025 in (0.4318 mm-0.635 mm)
5,000 lb-10,000 lb=0.025 in-0.035 in (0.635 mm-0.889 mm)
15,000 lb-20,000 lb=0.048 in-0.013 in (1.2912 mm-0.3302 mm)

**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Insulation Resistance:**
5,000 megohms

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS

FM C US APPROVED

NTEP




## Dimensions

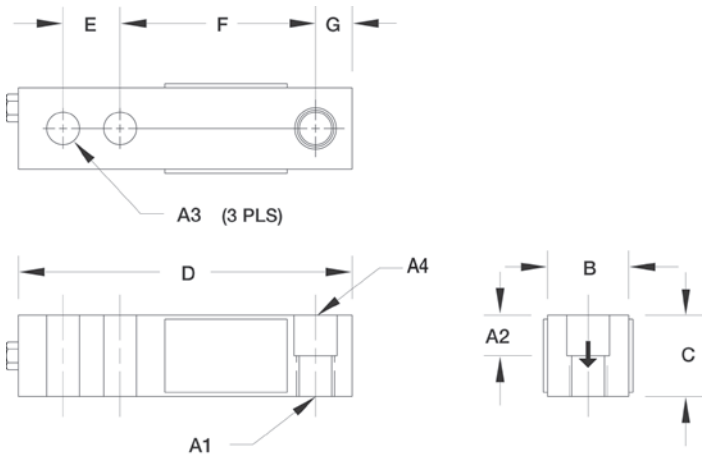
*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | A3 | A4 | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 1,000-4,000 | 1/2-20 UNF | 0.62 | 0.53 | 0.53 dia | 1.25 | 1.25 | 5.12 | 1.00 | 3.00 | 0.50 |
| 5,000-10,000 | 3/4-16 UNF | 0.75 | 0.78 | 0.78 dia | 1.50 | 1.50 | 6.75 | 1.50 | 3.75 | 0.75 |
| **kg/mm** | | | | | | | | | | |
| 453.6-1,814.4 | 1/2-20 UNF | 15.8 | 13.5 | 13.5 dia | 31.8 | 31.8 | 130.1 | 25.4 | 76.2 | 12.7 |
| 2,268.0-4,535.9 | 3/4-16 UNF | 19.1 | 19.8 | 19.8 dia | 38.1 | 38.1 | 171.5 | 38.1 | 95.3 | 19.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **182754** | 3 lb | $350.00 |
| 2,000 lb | 907.2 kg | **182755** | 3 lb | $350.00 |
| 2,500 lb | 1,134.0 kg | **182756** | 3 lb | $350.00 |
| 4,000 lb | 1,814.4 kg | **182757** | 3 lb | $350.00 |
| 5,000 lb | 2,268.0 kg | **182758** | 3 lb | $440.00 |
| 10,000 lb | 4,535.9 kg | **182759** | 3 lb | $440.00 |
| **Conduit Adapter Kit (must be factory installed to maintain warranty)** | | | | |
| 3/8-24 nipple | | **31533*** | 1 lb | $33.00 |
| 3/8-24 to 1/4-18 NPT | | **31534*** | 1 lb | $33.00 |

** PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*






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SINGLE-ENDED BEAM

# RL35082

Stainless Steel, Welded Seal IP67/Hermetic Seal IP69K, NTEP Certified 1:5,000 Class III Multiple Cell

**DISCONTINUED**
**LIMITED STOCK AVAILABLE**




*IP67 model*




*IP69K model*

## APPROVALS

FM C US APPROVED

NTEP

WATER PROOF

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL32019S-HE** (30 ft cable) ..... —

RICE LAKE WEIGHING SYSTEMS
**RL32218S-HE** (20 ft cable) ..... —

VPG SENSORTRONICS®
**65083S** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210 TA** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL1800 Series** ..... —

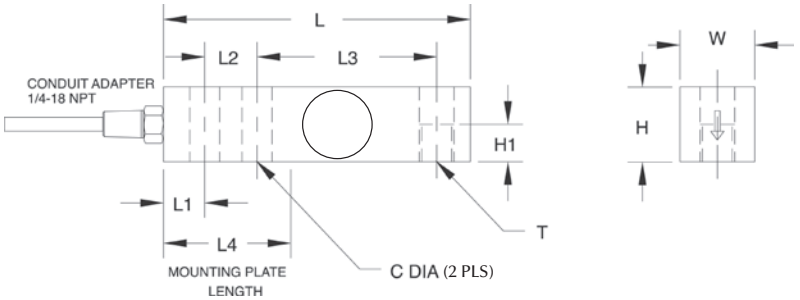
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | C | H | H1 | L | L1 | L2 | L3 | L4 | T | W |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 1,000-4,000 | 0.53 | 1.22 | 0.61 | 5.12 | 0.62 | 1.00 | 3.00 | 2.25 | 1/2-20 UNF | 1.22 |
| 5,000-10,000 | 0.78 | 1.50 | 0.75 | 6.75 | 0.75 | 1.50 | 3.75 | 3.00 | 3/4-16 UNF | 1.50 |
| **kg/mm** | | | | | | | | | | |
| 453.6-1,814.4 | 13.5 | 31.0 | 15.5 | 130.0 | 15.7 | 25.4 | 76.2 | 57.2 | 1/2-20 UNF | 31.0 |
| 2,268.0-4,535.9 | 19.8 | 38.1 | 19.1 | 171.5 | 19.1 | 38.1 | 95.3 | 76.2 | 3/4-16 UNF | 38.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **RL35082 N5/IP67 Model 20 ft** | | | | |
| 1,000 lb | 453.6 kg | **31283** | 3 lb | $425.00 |
| 2,500 lb | 1,134.0 kg | **31282** | 3 lb | $425.00 |
| 4,000 lb | 1,814.4 kg | **31281** | 3 lb | $425.00 |
| 5,000 lb | 2,268.0 kg | **31280** | 5 lb | $475.00 |
| 10,000 lb | 4,535.9 kg | **31279** | 5 lb | $475.00 |
| **RL35082HE N5/IP69K Model 20 ft** | | | | |
| 1,000 lb | 453.6 kg | **34702** | 3 lb | $505.00 |
| 2,500 lb | 1,134.0 kg | **34703** | 3 lb | $505.00 |
| 4,000 lb | 1,814.4 kg | **34704** | 3 lb | $505.00 |
| 5,000 lb | 2,268.0 kg | **34705** | 5 lb | $555.00 |
| 10,000 lb | 4,535.9 kg | **34706** | 5 lb | $555.00 |
| **RL35082HE N5/IP69K Model 30 ft** | | | | |
| 1,000 lb | 453.6 kg | **173854** | 3 lb | $555.00 |
| 2,500 lb | 1,134.0 kg | **173856** | 3 lb | $555.00 |
| 4,000 lb | 1,814.4 kg | **173857** | 3 lb | $555.00 |
| 5,000 lb | 2,268.0 kg | **173858** | 5 lb | $605.00 |
| 10,000 lb | 4,535.9 kg | **173859** | 5 lb | $605.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
349-355 ohm

**Input Resistance:**
343-357 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14°F to 104°F/-10°C to 40°C
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67
Hermetic-seal, IP69K
(Conduit is recommended for maximum protection against the ingress of water and moisture through the cable entry)

**Safe Overload:**
150% Full scale

**Safe Sideload:**
100% Full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% Full scale

**Non-Repeatability:**
0.01% Full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
1,000 lb-4,000 lb = 0.012 in (0.33 mm)
5,000 lb-10,000 lb = 0.030 in (0.81 mm)

**Cable Length:**
30 ft (9.1 m); 20 ft (6.1 m)

**Cable Diameter:**
0.220 PTFE coated cable

**Conduit Adapter Size:**
IP67 1/4-18 NPT
IP69K 1/2-14 NPT

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP
Waterproof Guaranteed IP69K



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# RLETB

Alloy Steel, Environmentally Sealed, OIML C3, IP67

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
349-355 ohm

**Input Resistance:**
343-357 ohm

**Material/Finish:**
Alloy steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
6 m (9.7 ft)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
OIML

## APPROVALS

FM APPROVED

OIML



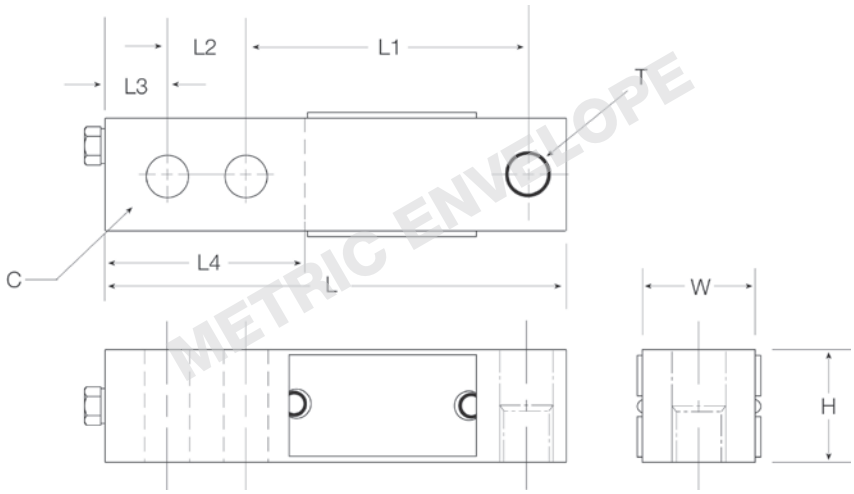

## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | C | H | L | L1 | L2 | L3 | L4 | W | T |
|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | |
| 1,000-2,000 | 57.00 | 32.00 | 130.00 | 76.00 | 25.00 | 16.00 | 13.00 | 32.00 | M12 x 1.75-6H |
| 5,000 | 76.00 | 38.00 | 171.00 | 95.00 | 38.00 | 19.0 | 20.7 | 38.00 | M20 x 1.5-6H |
| **lb/in** | | | | | | | | | |
| 2,204.6-4,410.0 | 2.25 | 1.25 | 5.12 | 3.00 | 0.98 | 0.63 | 0.51 | 1.25 | M12 x 1.75-6H |
| 11,025.0 | 3.00 | 1.50 | 6.73 | 3.74 | 1.50 | 0.75 | 0.81 | 3.75 | M20 x 1.5-6H |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 kg | 2,204.6 lb | **31248** | 3 lb | $325.00 |
| 2,000 kg | 4,410.0 lb | **31247** | 3 lb | $325.00 |
| 5,000 kg | 11,025.0 lb | **31246** | 5 lb | $405.00 |






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# RLHTO

Stainless Steel, Hermetically Sealed, IP66/68

## Interchangeable Products

VPG TEDEA-HUNTLEIGH®

**3510-OIML**.....—

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

**1700 HE**.....—

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
380 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Hermetically sealed, IP66/68

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% Applied Load

**Insulation Resistance:**
2,000 megohms

**Deflection at Capacity:**
500 kg-5,000 kg = 0.4 mm (0.015 in)

**Cable Length:**
5 m (16.4 ft)

**Cable Diameter:**
0.220 polyurethane jacket

**Cable Color Code:**
Blue +Excitation
Black –Excitation
White +Signal
Red – Signal
Green +Sense
Grey –Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
Waterproof Guaranteed

## APPROVALS

FM c US APPROVED

WATER PROOF



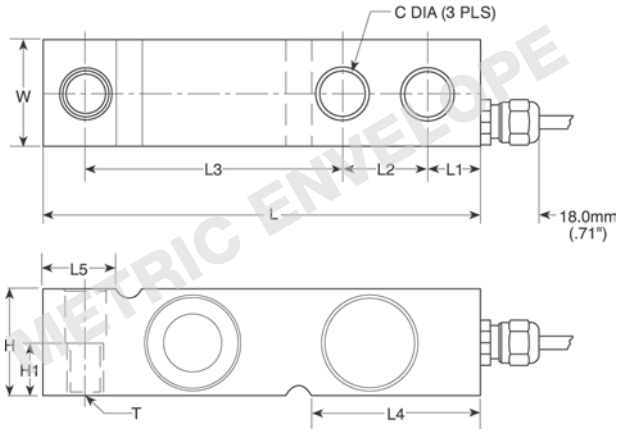

## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | C | H | H1 | L | L1 | L2 | L3 | L4 | L5 | T | W |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | |
| 500-2,000 | 13.5 | 32.0 | 16.0 | 130.0 | 15.8 | 25.4 | 76.2 | 50.5 | 23.5 | M12 x 1.75 | 32.0 |
| 5,000 | 20.5 | 48.0 | — | 171.5 | 19.0 | 38.1 | 95.3 | 70.0 | 37.0 | — | 36.5 |
| **lb/in** | | | | | | | | | | | |
| 1,102.3-4,409.2 | 0.53 | 1.26 | 0.63 | 5.12 | 0.62 | 1.00 | 3.00 | 1.99 | 0.93 | M12 X 1.75 | 1.26 |
| 11,023.1 | 0.80 | 1.89 | — | 6.75 | 0.75 | 1.50 | 3.75 | 2.76 | 1.46 | — | 1.44 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 500 kg | 1,102.3 lb | **31253** | 3 lb | $485.00 |
| 1,000 kg | 2,204.6 lb | **31250** | 3 lb | $485.00 |
| 2,000 kg | 4,409.2 lb | **31251** | 3 lb | $485.00 |
| 5,000 kg | 11,023.1 lb | **31252** | 5 lb | $555.00 |






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SINGLE-ENDED BEAM

# RLSSB

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III Multiple Cell, IP67



APPROVALS

FM C US APPROVED

NTEP

## Interchangeable Products

VPG REVERE®
**SSB** ..... —

HBM®
**SB3** ..... —

ARTECH®
**SS30610** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL1900 Series** ..... —

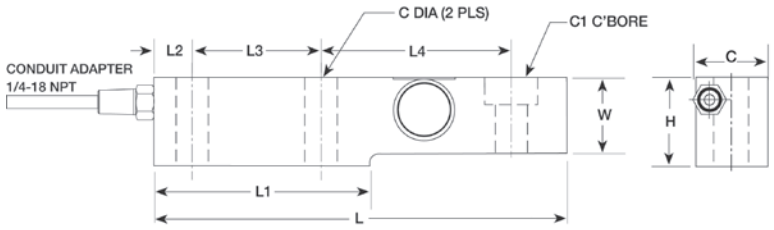
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | C | C1 | H | L | L1 | L2 | L3 | L4 | W |
|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | |
| 1,000-5,000 | 0.53 | 0.68 thru C'Bore 1.19 x 0.47 DP | 1.88 | 8.00 | 4.00 | 0.75 | 2.50 | 3.88 | 1.44 |
| 10,000 | 0.88 | 1.00 thru C'Bore 1.63 x 0.62 DP | 2.75 | 9.25 | 4.62 | 0.81 | 2.63 | 4.88 | 1.88 |
| **kg/mm** | | | | | | | | | |
| 453.6-2,268.0 | 13.5 | 0.68 thru C'Bore 1.19 x 0.47 DP | 47.8 | 203.2 | 101.6 | 19.1 | 63.5 | 98.6 | 36.6 |
| 4,535.9 | 22.4 | 1.00 thru C'Bore 1.63 x 0.62 DP | 69.9 | 235.0 | 117.3 | 20.6 | 66.8 | 124.0 | 47.8 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **34310** | 5 lb | $600.00 |
| 2,000 lb | 907.2 kg | **34311** | 5 lb | $600.00 |
| 5,000 lb | 2,268.0 kg | **34312** | 6 lb | $600.00 |
| 10,000 lb | 4,535.9 kg | **34313** | 10 lb | $715.00 |
| **Options** | | | | |
| Load cell button | — | **26112** | — | $32.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Non-repeatability:**
0.01% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
15 ft (4.5 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RLSB250/RLSB250T

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III Multiple Cell, IP67

## Interchangeable Products

CARDINAL®

**SB2500*** ..... —

**No threads in load hole*

## Specifications

**Full Scale Output:**
2.0 mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14°F to 104°F/-10°C to 40°C
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Non-repeatability:**
0.01% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20ft (6.1 m)
15 ft (4.5 m) - pn 34482

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP





*PN 116084*

## APPROVALS

FM C US APPROVED

Threaded Versions Now Available

## Dimensions

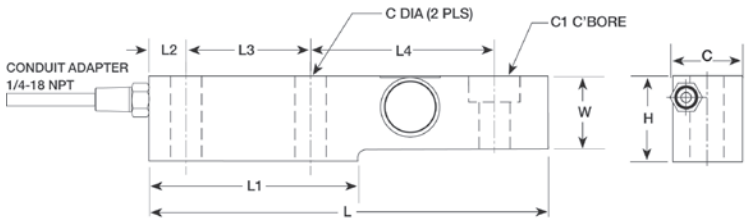
*Picture is a representation of actual product*

| Rated Capacity | C | C1 | H | L | L1 | L2 | L3 | L4 | T | W |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 2,500 | 0.53 | 1.20 x 0.75 DP | 1.93 | 8.00 | 4.00 | 0.75 | 2.50 | 3.88 | 3/4-16 UNF | 1.25 |
| 5,000 | 0.53 | 1.20 x 0.75 DP | 1.93 | 8.00 | 4.00 | 0.75 | 2.50 | 3.88 | 3/4-16 UNF | 1.45 |
| 10,000 | — | 1.20 x 0.75 DP | 2.46 | 9.00 | 4.00 | 0.75 | 2.00 | 5.25 | — | 1.62 |
| **kg/mm** | | | | | | | | | | |
| 1,134.0 | 13.5 | 1.20 x 0.75 DP | 47.8 | 203.2 | 101.6 | 19.1 | 63.5 | 98.6 | 3/4-16 UNF | 31.8 |
| 2,268.0 | 13.5 | 1.20 x 0.75 DP | 47.8 | 203.2 | 101.6 | 19.1 | 63.5 | 98.6 | 3/4-16 UNF | 36.8 |
| 4,535.9 | — | 1.20 x 0.75 DP | 62.5 | 228.6 | 101.6 | 19.1 | 50.8 | 133.4 | — | 41.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 2,500 lb* | 1,134.0 kg | **34482** | 6 lb | $600.00 |
| 2,500 lb | 1,134.0 kg | **116053** | 6 lb | $600.00 |
| 5,000 lb | 2,268.0 kg | **116054** | 6 lb | $700.00 |
| 10,000 lb* | 4,535.9 kg | **116055** | 10 lb | $700.00 |
| **Options** | | | | |
| Load cell button | — | **116084** | — | $9.00 |

**No threads in load hole*








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SINGLE-ENDED BEAM

# RL50219SS

Stainless Steel, Environmentally Sealed, IP65



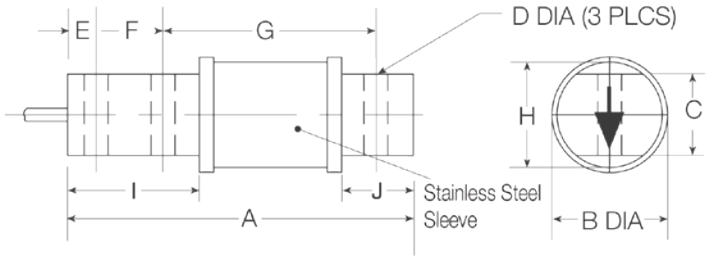
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 25-500 | 2.81 | 1.30 | 0.62 | 0.26 | 0.25 | 0.50 | 1.81 | 1.00 | 1.00 | 0.50 |
| **kg/mm** | | | | | | | | | | |
| 11.3-226.8 | 71.4 | 33.0 | 15.8 | 6.6 | 6.4 | 12.7 | 46.0 | 25.4 | 25.4 | 12.7 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 25 lb | 11.3 kg | **194014** | | $425.00 |
| 50 lb | 22.7 kg | **194015** | | $425.00 |
| 75 lb | 34.0 kg | **194016** | | $425.00 |
| 100 lb | 45.4 kg | **194017** | | $425.00 |
| 150 lb | 68.0 kg | **194018** | | $425.00 |
| 250 lb | 113.4 kg | **194019** | | $425.00 |
| 500 lb | 226.8 kg | **194020** | | $425.00 |




## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS

**RL50210** (alloy) ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

**RL50219SS-TA** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
380-450 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP65

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC

**Nonlinearity:**
0.03% full scale

**Hysteresis:**
0.02% full scale

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20 ft (6.1 m)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty



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# RL50210

Alloy Steel, Environmentally Sealed, IP65

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL50219SS** ..... —

VPG SENSORTRONICS®
**60040** ..... —

ARTECH®
**50210** ..... —

VPG REVERE®
**5503** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210 TA** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
349-355 ohm

**Input Resistance:**
360-450 ohm

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed with neoprene sleeve, IP65

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Nonlinearity:**
0.03% full scale

**Hysteresis:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
25 lb-50 lb=0.008 in (0.20 mm)
100 lb=0.010 in (0.25 mm)
150 lb=0.012 in (0.30 mm)
250 lb=0.016 in (0.41 mm)
500 lb=0.025 in (0.64 mm)

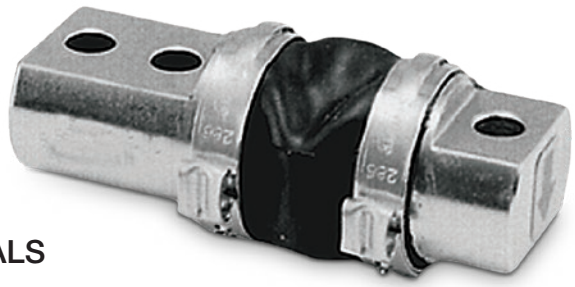
**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus



## APPROVALS

FM C US APPROVED

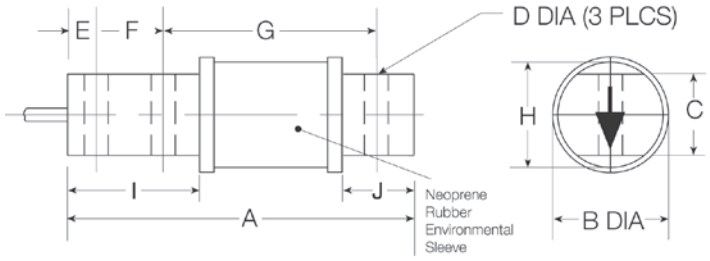
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 25-500 | 2.81 | 1.30 | 0.62 | 0.26 | 0.25 | 0.50 | 1.81 | 1.00 | 1.00 | 0.50 |
| **kg/mm** | | | | | | | | | | |
| 11.3-226.8 | 71.4 | 33.0 | 15.8 | 6.6 | 6.4 | 12.7 | 46.0 | 25.4 | 25.4 | 12.7 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 25 lb | 11.3 kg | **17385** | 2 lb | $245.00 |
| 50 lb | 22.7 kg | **17380** | 2 lb | $245.00 |
| 100 lb | 45.4 kg | **17381** | 2 lb | $245.00 |
| 150 lb | 68.0 kg | **17382** | 2 lb | $245.00 |
| 250 lb | 113.4 kg | **17383** | 2 lb | $245.00 |
| 500 lb | 226.8 kg | **17384** | 2 lb | $245.00 |






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SINGLE-ENDED BEAM

# RL60040SST

Stainless Steel, Environmentally Sealed, IP65



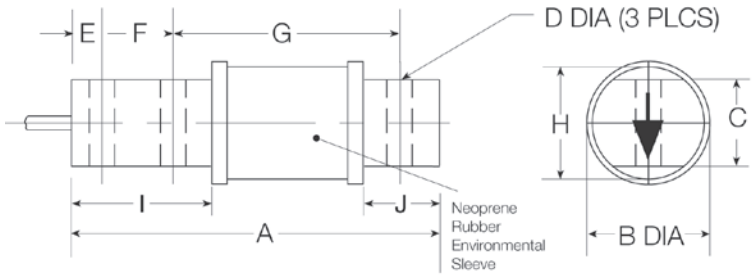
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 25-500 | 2.81 | 1.30 | 0.62 | 0.26 | 0.25 | 0.50 | 1.81 | 1.00 | 1.00 | 0.50 |
| **kg/mm** | | | | | | | | | | |
| 11.3-226.8 | 71.4 | 33.0 | 15.8 | 6.6 | 6.4 | 12.7 | 46.0 | 25.4 | 25.4 | 12.7 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 25 lb | 11.3 kg | **101972** | 3 lb | $425.00 |
| 50 lb | 22.7 kg | **101973** | 3 lb | $425.00 |
| 100 lb | 45.4 kg | **101975** | 3 lb | $425.00 |
| 150 lb | 68.0 kg | **101976** | 3 lb | $425.00 |
| 250 lb | 113.4 kg | **101977** | 3 lb | $425.00 |
| 500 lb | 226.8 kg | **101978** | 3 lb | $425.00 |




## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL50219SS** ..... —

VPG SENSORTRONICS®*
**60040** ..... —

ARTECH®*
**50210** ..... —

VPG REVERE®*
**5503** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL50210 TA** ..... —

**Alloy steel*

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
349-355 ohm

**Input Resistance:**
380-450 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed with neoprene sleeve, IP65

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Nonlinearity:**
0.03% full scale

**Hysteresis:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
25 lb-50 lb=0.008 in (0.20 mm)
100 lb=0.010 in (0.25 mm)
150 lb=0.012 in (0.3 mm)
250 lb=0.016 in (0.41 mm)
500 lb=0.025 in (0.64 mm)

**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty



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# RL40BBS

Alloy Steel, Environmentally Sealed, IP65

## Interchangeable Products

HBM®
**BBS** ..... —

VPG SENSORTRONICS®
**65087** ..... —

FAIRBANKS®
**3-481XX-1** ..... —

FAIRBANKS
**3-48660-1** ..... —

ARTECH®
**40310** ..... —




## Specifications

**Full Scale Output:**
2.0 mV/V

**Bridge Resistance:**
50lb-1,000lb/750 ohm, nominal
2,500 lb/347 ohm, nominal

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed with neoprene sleeve, IP65

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Deflection at Capacity:**
50 lb=0.015 in
100 lb=0.005 in
200 lb-250 lb=0.030 in
500 lb=0.025 in
1,000 lb=0.040 in
2,500 lb=0.120 in

**Nonlinearity:**
0.03% Full scale

**Hysteresis:**
0.02% Full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

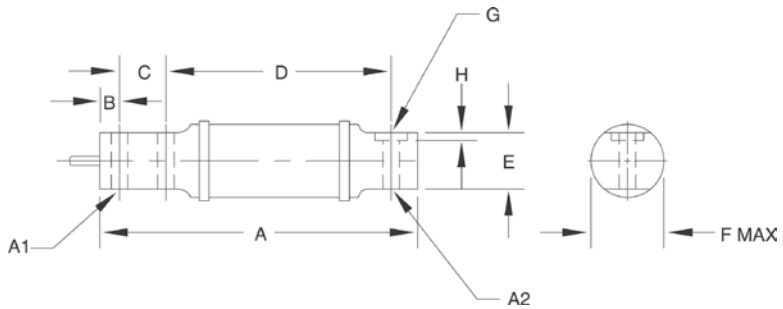
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | A1 | A2 | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 50-100 | 6.00 | 0.31 | 0.31 | 0.38 | 0.88 | 4.25 | 1.06 | 1.41 | — | — |
| 200-1,000 | 6.62 | 0.52 | 0.52 | 0.50 | 1.12 | 4.25 | 1.06 | 1.41 | — | — |
| 2,500 | 11.38 | 0.53 | 0.62 | 0.50 | 1.75 | 8.25 | 1.25 | 2.19 | 1.19 | 0.12 |
| **kg/mm** | | | | | | | | | | |
| 22.7-45.4 | 52.4 | 7.9 | 7.9 | 9.7 | 22.4 | 108.0 | 26.9 | 35.8 | — | — |
| 90.7-453.6 | 168.2 | 13.2 | 13.2 | 12.7 | 28.5 | 108.0 | 26.9 | 35.8 | — | — |
| 1,134.0 | 289.1 | 13.5 | 15.8 | 12.7 | 44.5 | 209.6 | 31.8 | 55.6 | 30.3 | 3.00 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 50 lb | 22.7 kg | **17395** | 3 lb | $395.00 |
| 100 lb | 45.4 kg | **17343** | 3 lb | $395.00 |
| 200 lb | 90.7 kg | **17396** | 3 lb | $395.00 |
| 250 lb | 113.4 kg | **17397** | 3 lb | $395.00 |
| 500 lb | 226.8 kg | **17398** | 3 lb | $395.00 |
| 1,000 lb | 453.6 kg | **17344** | 3 lb | $395.00 |
| 2,500 lb | 1,134.0 kg | **17345** | 9 lb | $625.00 |






www.ricelake.com | Phone: 800-472-6703



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SINGLE-ENDED BEAM

# RLHBB

Stainless Steel, Hermetically Sealed, NTEP Certified 1:4,000 Class III Single Cell 1:5,000 Class III Multiple Cell, OIML C3, IP68

**DISCONTINUED**
**LIMITED STOCK AVAILABLE**



## APPROVALS

FM APPROVED

NTEP

OIML

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL9018SS** ..... —

HBM®
**Z6 (non-NTEP)** ..... —

VPG REVERE®
**SHB** ..... —

VPG TEDEA-HUNTLEIGH®
**355** ..... —

CARDINAL®
**CB6**** ..... —

METTLER-TOLEDO®
**MTB Model 777** ..... —

*** Not interchangeable with 500 kg*

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL1700HE Series** ..... —

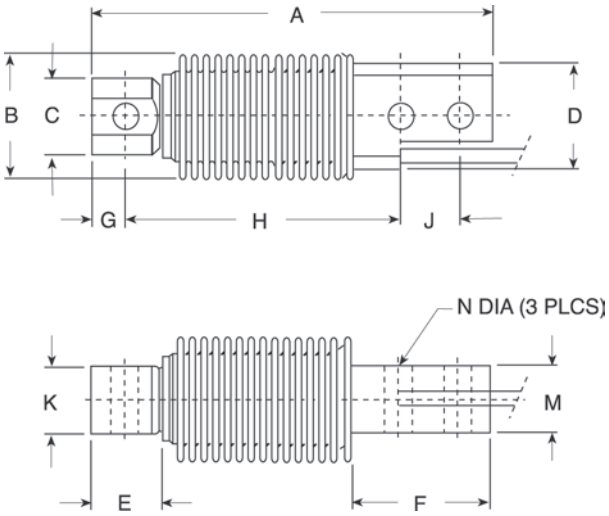
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | J | K | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | |
| 5-500 | 120.0 | 40.0 | 23.0 | 32.0 | 20.5 | 45.5 | 10.0 | 82.0 | 18.0 | 20.0 | 20.0 | 8.20 |
| **lb/in** | | | | | | | | | | | | |
| 11.0-1,102.3 | 4.72 | 1.61 | 0.91 | 1.26 | 0.81 | 1.79 | 0.39 | 3.23 | 0.71 | 0.79 | 0.79 | 0.32 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 250 kg | 551.2 lb | **41119** | 2 lb | $525.00 |
| **OIML** | | | | |
| 5 kg | 11.0 lb | **32678** | 2 lb | $525.00 |
| 50 kg | 110.2 lb | **31260** | 2 lb | $525.00 |
| 200 kg | 441.0 lb | **31262** | 2 lb | $525.00 |
| 250 kg | 551.2 lb | **31263** | 2 lb | $525.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
355 (± 5) ohm

**Input Resistance:**
380 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14°F to 104°F/-10°C to 40°C
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Hermetically sealed, IP68

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
2,000 megohms

**Deflection at Capacity:**
5 kg-500 kg=0.4 mm (0.015 in)

**Cable Length:**
3 m (9.8 ft)

**Cable Diameter:**
0.220 polyurethane jacket

**Cable Color Code:**
Blue +Excitation
Black –Excitation
White +Signal
Red –Signal
Green +Sense
Grey –Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP
OIML



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# RL32011WB-L

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, Potted, IP67

## Interchangeable Products

AVERY WEIGH TRONIX®

**Weigh Bar** ..... —

## Specifications

**Full Scale Output:**
2.0 ± 0.1%) mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
385 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC

**Combined Error:**
0.02% full scale

**Non-Repeatability:**
± 0.01% full scale

**Insulation Resistance:**
5,000 megaohms

**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.190 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP



## APPROVALS

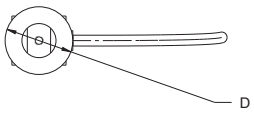
## Dimensions

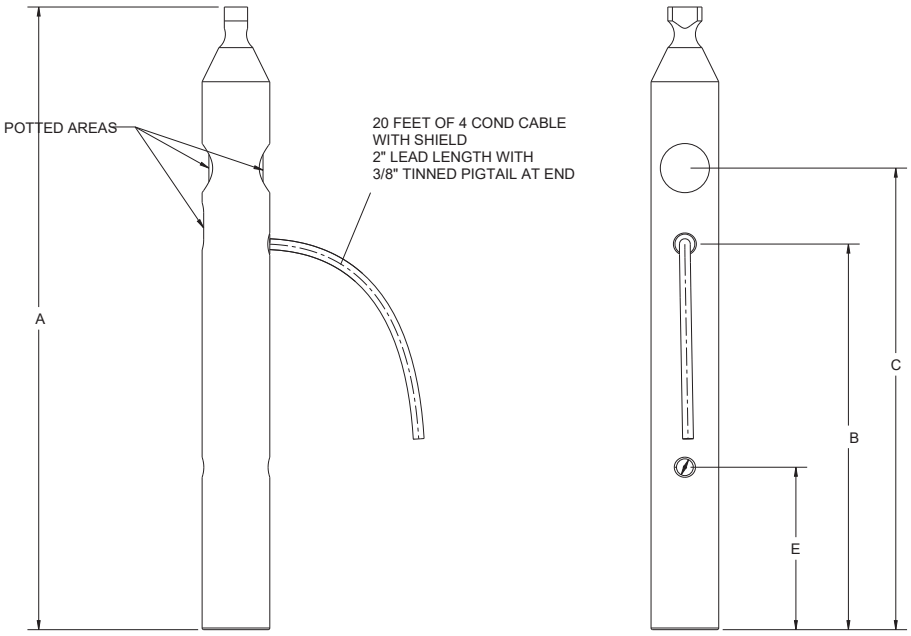
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E |
|---|---|---|---|---|---|
| **lb/in** | | | | | |
| 1,250 | 11.50 | 7.12 | 8.52 | 1.25 | 3.0 |
| 2,500 | 11.50 | 8.5 | 8.4 | 1.62 | 3.0 |
| 5,000 | 10.9 | 5.5 | 7.4 | 2.0 | 3.0 |
| 10,000 | 12.6 | 5.9 | 8.0 | 2.5 | 3.0 |
| **kg/mm** | | | | | |
| 566.99 | 292.1 | 180.9 | 216.5 | 31.8 | 76.2 |
| 1,134.0 | 292.1 | 215.3 | 212.9 | 41.1 | 76.2 |
| 2,268.0 | 276.9 | 138.8 | 187.5 | 50.8 | 76.2 |
| 4,535.9 | 320.5 | 149.6 | 203.2 | 63.5 | 76.2 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,250 lb | 566.99 kg | **119788** | 5 lb | $695.00 |
| 2,500 lb | 1,134.0 kg | **119789** | 7 lb | $695.00 |
| 5,000 lb | 2,268.0 kg | **119790** | 9 lb | $795.00 |
| 10,000 lb | 4,535.9 kg | **119791** | 17 lb | $895.00 |








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SINGLE-ENDED BEAM

# RL32011WB-T

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, Potted, IP67



APPROVALS

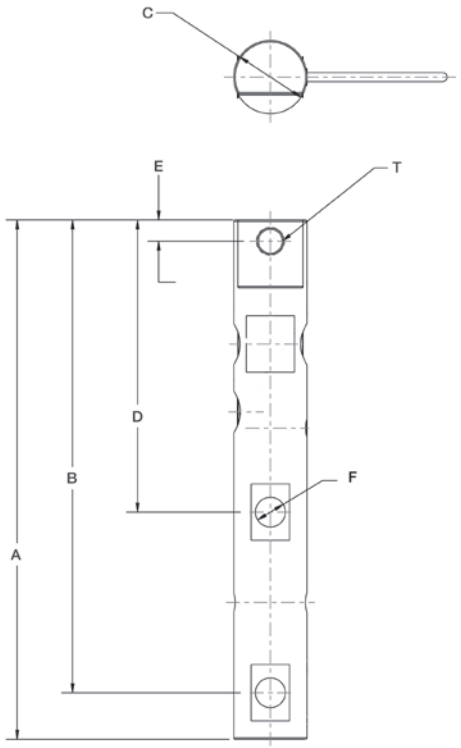
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | T |
|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | |
| 1,250 | 11.50 | 10.47 | 1.25 | 6.47 | 0.47 | 0.53 | 1/2-13 UNC |
| 2,500 | 11.50 | 10.47 | 1.62 | 6.47 | 0.47 | 0.66 | 5/8-11 UNC |
| **kg/mm** | | | | | | | |
| 566.99 | 292.1 | 265.9 | 31.75 | 164.3 | 24.6 | 13.46 | — |
| 1,134.0 | 292.1 | 265.9 | 41.14 | 164.3 | 24.6 | 16.76 | — |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 1,250 lb | 566.99 kg | **119796** | 3 lb | $495.00 |
| 2,500 lb | 1,134.0 kg | **119797** | 3 lb | $495.00 |




## Interchangeable Products

AVERY WEIGH TRONIX®

**Weigh Bar** ..... —

## Specifications

**Full Scale Output:**
2.0 (± 0.1%) mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
385 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC

**Combined Error:**
0.02% full scale

**Non-Repeatability:**
± 0.01% full scale

**Insulation Resistance:**
5,000 megaohms

**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.190 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP



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# RL70000

Alloy Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67

## Interchangeable Products

VPG REVERE®*
**5103*** ..... —

VPG CELTRON®
**CSB** ..... —

ARTECH®
**70210** ..... —

METTLER-TOLEDO®
**SLD 430** ..... —

**Conduit adapter optional*

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**EZ Mount 1** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohm

**Input Resistance:**
700 (± 10) ohm - 5k, 10k, 200k, 250k
770 (± 10) ohm - 20k - 150k

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range
14° F to 104° F/-10° C to 40° C
Operating range
0° F to 150° F/-18° C to 65° C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
5,000 lb=0.02 in (0.5 mm)
10,000 lb=0.025 in (0.6 mm)
20,000 lb=0.042 in (1.1 mm)
30,000-50,000 lb=0.02 in (0.5 mm)
60,000 lb=0.025 in (0.6 mm)
100,000 lb=0.02 in (0.5 mm)

**Cable Length:**
30 ft (9.1 m)

**Cable Diameter:**
polyurethane jacket
5,000 lb-20,000 lb=0.200
30,000 lb-250,000 lb=0.305

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

APPROVALS

FM C US APPROVED



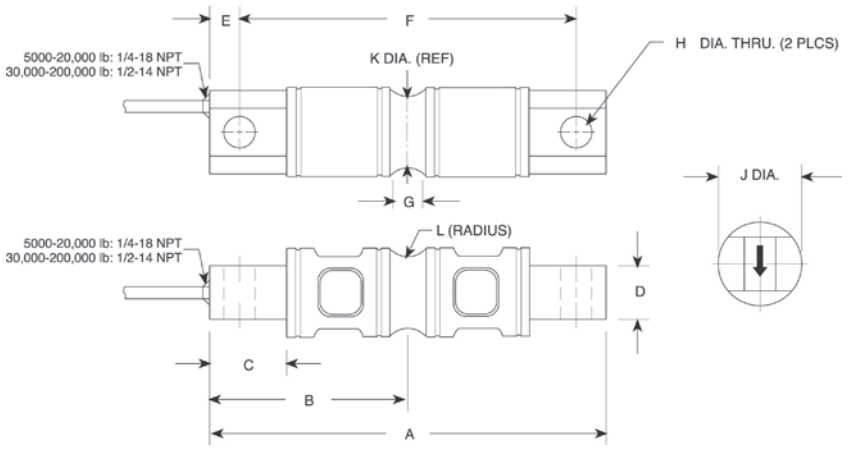
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 5,000-10,000 | 8.12 | 4.06 | 1.44 | 1.12 | 0.62 | 6.88 | 0.62 | 0.66 | 1.70 | 1.48 | 0.50 |
| 20,000 | 8.12 | 4.06 | 1.44 | 1.12 | 0.62 | 6.88 | 0.84 | 0.66 | 1.95 | 1.48 | 0.50 |
| 30,000-60,000 | 10.25 | 5.12 | 1.88 | 2.37 | 0.88 | 8.50 | 1.00 | 1.06 | 3.20 | 2.73 | 1.00 |
| 100,000 | 11.25 | 5.62 | 1.88 | 2.50 | 0.88 | 9.50 | 1.00 | 1.06 | 3.50 | 3.24 | 1.50 |
| 150,000 | 11.25 | 5.62 | 1.88 | 2.80 | 0.88 | 9.50 | 1.25 | 1.06 | 3.90 | 3.64 | 1.50 |
| 200,000-250,000 | 16.10 | 8.05 | 3.05 | 4.60 | 1.55 | 13.00 | 1.30 | 1.56 | 5.38 | 5.17 | 2.00 |
| **kg/mm** | | | | | | | | | | | |
| 2,268.0-4,535.9 | 206.3 | 103.1 | 36.6 | 28.5 | 15.8 | 174.8 | 15.8 | 16.8 | 55.9 | 37.6 | 12.7 |
| 9,071.9 | 206.3 | 103.1 | 36.6 | 28.5 | 21.3 | 174.8 | 21.3 | 16.8 | 52.8 | 37.6 | 12.7 |
| 13,607.8-27,215.6 | 260.4 | 130.1 | 47.8 | 60.2 | 22.4 | 215.9 | 25.4 | 26.9 | 81.3 | 69.3 | 25.4 |
| 45,359.4 | 285.8 | 142.8 | 47.8 | 63.5 | 22.4 | 241.3 | 25.4 | 26.9 | 88.9 | 82.3 | 25.4 |
| 68,038.8 | 285.8 | 142.8 | 47.8 | 71.1 | 22.4 | 241.3 | 31.8 | 26.9 | 99.1 | 92.5 | 38.1 |
| 90,718.5-113,398 | 409.0 | 204.5 | 77.5 | 116.8 | 39.4 | 330.2 | 33.0 | 39.6 | 136.7 | 131.3 | 50.8 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 5,000 lb | 2,268.0 kg | **36263** | 5 lb | $655.00 |
| 10,000 lb | 4,535.9 kg | **36264** | 6 lb | $655.00 |
| 20,000 lb | 9,071.9 kg | **36265** | 7 lb | $655.00 |
| 30,000 lb | 13,607.8 kg | **36266** | 18 lb | $755.00 |
| 40,000 lb | 18,143.7 kg | **36267** | 18 lb | $755.00 |
| 50,000 lb | 22,679.6 kg | **36268** | 18 lb | $755.00 |
| 60,000 lb | 27,215.5 kg | **36269** | 18 lb | $755.00 |
| 100,000 lb | 45,359.2 kg | **36270** | 28 lb | $1,475.00 |
| 150,000 lb | 68,038.8 kg | **36976** | 34 lb | $1,475.00 |
| 200,000 lb | 90,718.5 kg | **36977** | 90 lb | $2,775.00 |
| **Non-NTEP Certified** | | | | |
| 250,000 lb | 113,398.0 kg | **36978** | 93 lb | $2,775.00 |




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DOUBLE-ENDED BEAM

# RL70000SS

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III/1:10,000 IIIL Multiple Cell, IP67



## APPROVALS

FM C US APPROVED

NTEP

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL72019SS** ..... —

VPG REVERE®
**9103** ..... —

METTLER TOLEDO®
**SLD-530** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**EZ Mount 1** ..... —

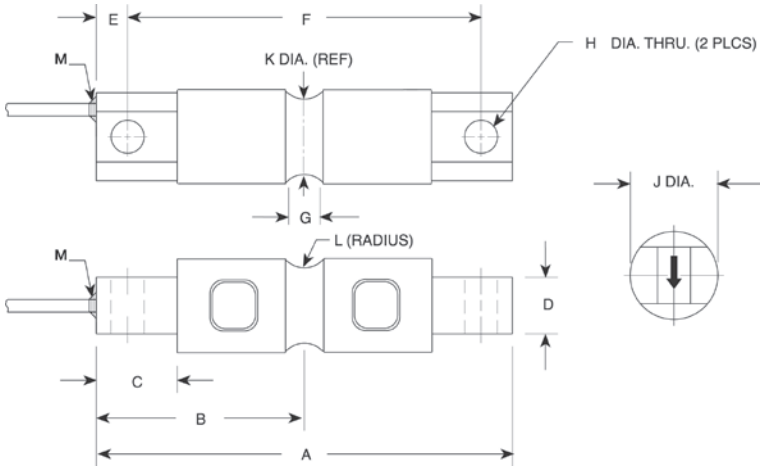
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | |
| 5,000-10,000 | 8.12 | 4.06 | 1.44 | 1.12 | 0.62 | 6.88 | 0.62 | 0.66 | 1.70 | 1.48 | 0.50 | 1/4-18 NPT |
| 20,000 | 8.12 | 4.06 | 1.44 | 1.12 | 0.62 | 6.88 | 0.84 | 0.66 | 1.95 | 1.48 | 0.50 | 1/4-18 NPT |
| 30,000-60,000 | 10.25 | 5.12 | 1.88 | 2.37 | 0.88 | 8.50 | 1.00 | 1.06 | 3.20 | 2.73 | 1.00 | 1/2-14 NPT |
| 100,000 | 11.25 | 5.62 | 1.88 | 2.50 | 0.88 | 9.50 | 1.00 | 1.06 | 3.50 | 3.24 | 1.50 | 1/2-14 NPT |
| 150,000 | 11.25 | 5.62 | 1.88 | 2.80 | 0.88 | 9.50 | 1.25 | 1.06 | 3.90 | 3.64 | 1.50 | 1/2-14 NPT |
| **kg/mm** | | | | | | | | | | | | |
| 2,268.0-4,535.9 | 206.3 | 103.1 | 36.6 | 28.5 | 15.8 | 174.8 | 15.8 | 16.8 | 43.2 | 37.6 | 12.7 | 1/4-18 NPT |
| 9,071.9 | 206.3 | 103.1 | 36.6 | 28.5 | 15.8 | 174.8 | 21.3 | 16.8 | 49.5 | 37.6 | 12.7 | 1/4-18 NPT |
| 13,607.8-27,215.6 | 260.4 | 130.1 | 47.8 | 60.2 | 22.4 | 215.9 | 25.4 | 26.9 | 81.3 | 69.3 | 25.4 | 1/2-14 NPT |
| 45,359.4 | 285.8 | 142.8 | 47.8 | 63.5 | 22.4 | 241.3 | 25.4 | 26.9 | 88.9 | 82.3 | 38.1 | 1/2-14 NPT |
| 68,038.9 | 285.8 | 142.8 | 47.8 | 71.1 | 22.4 | 241.3 | 31.8 | 26.9 | 99.1 | 92.5 | 38.1 | 1/2-14 NPT |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 10,000 lb | 4,535.9 kg | **30432** | 5 lb | $775.00 |
| 20,000 lb | 9,071.9 kg | **30433** | 6 lb | $775.00 |
| 30,000 lb | 13,607.8 kg | **30434** | 22 lb | $850.00 |
| 40,000 lb | 18,143.7 kg | **30435** | 22 lb | $850.00 |
| 50,000 lb | 22,679.6 kg | **30436** | 22 lb | $950.00 |
| 60,000 lb | 27,215.5 kg | **30437** | 22 lb | $950.00 |
| 100,000 lb | 45,359.2 kg | **30444** | 30 lb | $1,850.00 |
| **Non-NTEP Certified** | | | | |
| 5,000 lb | 2,268.0 kg | **30431** | 5 lb | $725.00 |
| 150,000 lb | 68,038.9 kg | **30445** | 30 lb | $1,850.00 |




## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 7 ) ohm

**Input Resistance:**
700 (± 7) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
0°F to 150°F/-18°C to 65°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 V AC/DC (15 V max)

**Non-repeatability:**
0.02% full scale

**Combined Error:**
0.3% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
5,000 lb=0.02 in (0.5 mm)
10,000 lb=0.025 in (.6 mm)
20,000 lb=0.042 in (1.1 mm)
30,000 lb-50,000 lb=0.02 in (0.5 mm)
60,000 lb=0.025 in (0.6 mm)
100,000-150,000 lb=0.02 in (0.5 mm)

**Cable Length:**
30 ft (9.1 m)

**Cable Diameter:**
0.295 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP *Except 5,000 lb and 150,000 lb*



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# RL72019SS

Stainless Steel, Environmentally Sealed, IP68

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL70000SS** — —

VPG REVERE®
**9103** — —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**EZ Mount 1 SS** — —



## APPROVALS

FM C US APPROVED

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohm

**Input Resistance:**
780 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP68

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC

**Nonlinearity:**
0.03% full scale

**Hysteresis:**
0.5% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
25 ft (7.6 m)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus

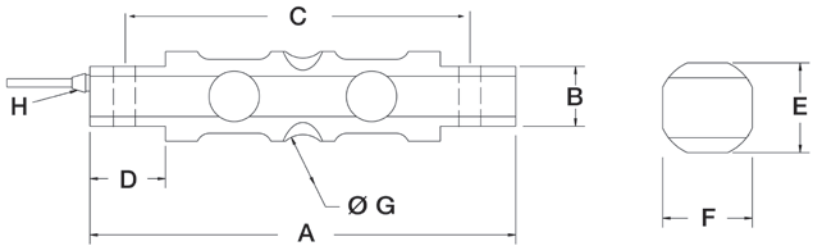
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | ØG | H |
|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | |
| 5,000-20,000 | 8.12 | 1.14 | 6.88 | 1.44 | 1.71 | 1.71 | 1.00 | 1/4-18 NPT |
| 30,000-60,000 | 10.25 | 2.38 | 8.50 | 1.88 | 3.03 | 3.03 | 2.00 | 1/2-14 NPT |
| **kg/mm** | | | | | | | | |
| 2,268.0-9,071.9 | 206.2 | 28.9 | 174.7 | 36.5 | 43.43 | 43.43 | 25.4 | 1/4-18 NPT |
| 13,607.8-27,215.5 | 260.3 | 60.4 | 215.9 | 47.7 | 76.96 | 76.96 | 50.8 | 1/2-14 NPT |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 5,000 lb | 2,268.0 kg | **194021** | 5 lb | $1,095.00 |
| 10,000 lb | 4,535.9 kg | **194022** | 5 lb | $1,095.00 |
| 20,000 lb | 9,071.9 kg | **194023** | 5 lb | $1,095.00 |
| 30,000 lb | 13,607.8 kg | **194024** | 20 lb | $1,495.00 |
| 40,000 lb | 18,143.7 kg | **194025** | 20 lb | $1,495.00 |
| 50,000 lb | 22,679.6 kg | **194026** | 20 lb | $1,495.00 |
| 60,000 lb | 27,215.5 kg | **194027** | 20 lb | $1,495.00 |






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DOUBLE-ENDED BEAM

# RL72010MH

Stainless Steel, Hermetically Sealed, IP68

**DISCONTINUED**
**LIMITED STOCK AVAILABLE**




APPROVALS

FM APPROVED

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL72019SS** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL70000SS** ..... —

VPG REVERE®
**9103** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**EZ Mount 1** ..... —

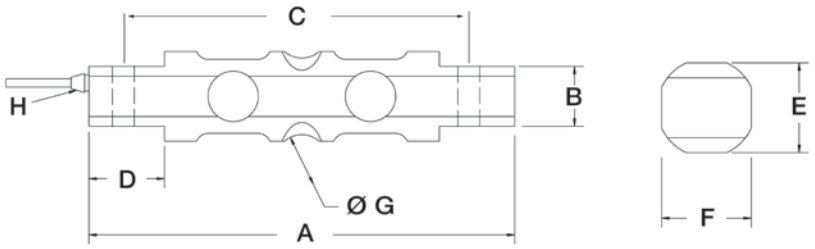
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | ØG | H |
|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | |
| 5,000-20,000 | 8.12 | 1.14 | 6.88 | 1.44 | 1.71 | 1.71 | 1.00 | 1/4-18 NPT |
| 30,000-60,000 | 10.25 | 2.38 | 8.50 | 1.88 | 3.03 | 3.03 | 2.00 | 1/2-14 NPT |
| **kg/mm** | | | | | | | | |
| 2,268.0-9,071.9 | 206.2 | 28.9 | 174.7 | 36.5 | 43.43 | 43.43 | 25.4 | 1/4-18 NPT |
| 13,607.8-27,215.5 | 260.3 | 60.4 | 215.9 | 47.7 | 76.96 | 76.96 | 50.8 | 1/2-14 NPT |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 5,000 lb | 2,268.0 kg | **118462** | 5 lb | $1,195.00 |
| 20,000 lb | 9,071.9 kg | **118464** | 5 lb | $1,195.00 |
| 60,000 lb | 27,215.5 kg | **118468** | 20 lb | $1,595.00 |




## Specifications

**Full Scale Output:**
3.0 mV/V, nominal

**Output Resistance:**
700 ±5 ohm

**Input Resistance:**
780 ±10 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Hermetically sealed, IP68

**Safe Overload:**
150% full scale

**Sideload:**
100% full scale

**Non Linearity:**
0.03% full scale

**Hysteresis:**
0.05% full scale

**Rated Excitation:**
5-15 VDC

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
25 ft (7.6 m)

**Cable Diameter:**
0.190 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal
Orange Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
FM



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# RL75016

Alloy Steel, Environmentally Sealed, IP67

## Interchangeable Products

VPG CELTRON®
**DSR** —

VPG SENSORTRONICS®
**65016** —

VPG REVERE®
**5203** —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL1600 Series** —




## APPROVALS

FM C US APPROVED

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohm

**Input Resistance:**
770 (± 10) ohm

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Nonlinearity:**
0.03% full scale

**Hysteresis:**
0.02% full scale

**Deflection at Capacity:**
1,000 lb-3,000 lb=0.01 in (0.3 mm)
5,000 lb=0.015 in (0.4 mm)
10,000-20,000 lb=0.022 in (0.6 mm)
25,000 lb=0.036 in (0.9 mm)
50,000 lb=0.052 in (1.3 mm)
75,000 lb=0.07 in (1.8 mm

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
25 ft (7.6 m)

**Cable Diameter:**
1,000 lb-25,000 lb=0.200 polyurethane jacket
50,000 lb-75,000 lb=0.305 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus

## Dimensions

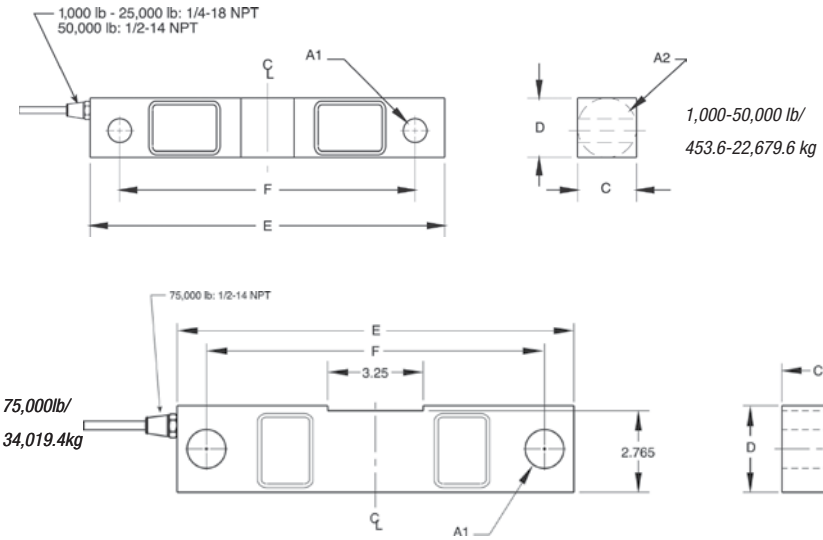
*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | C | D | E | F |
|---|---|---|---|---|---|---|
| **lb/in** | | | | | | |
| 1,000-5,000 | 0.50 | 1.25 | 1.25 | 1.25 | 7.50 | 6.25 |
| 10,000-25,000 | 0.81 | 1.99 | 1.44 | 1.94 | 8.75 | 7.50 |
| 50,000 | 1.31 | 3.00 | 2.44 | 2.94 | 13.50 | 11.50 |
| 75,000 | 1.31 | — | 2.44 | 2.94 | 13.50 | 11.50 |
| **kg/mm** | | | | | | |
| 453.6-2,268.0 | 12.7 | 31.8 | 31.8 | 31.8 | 190.5 | 158.8 |
| 4,535.9-11,339.8 | 20.6 | 50.8 | 36.6 | 49.3 | 222.3 | 190.5 |
| 22,679.6 | 33.3 | 76.2 | 62.0 | 74.7 | 342.9 | 292.1 |
| 34,019.4 | 33.3 | — | 62.0 | 74.7 | 342.9 | 292.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **17300** | 4 lb | $525.00 |
| 1,500 lb | 680.4 kg | **17302** | 4 lb | $525.00 |
| 2,000 lb | 907.2 kg | **17304** | 4 lb | $525.00 |
| 2,500 lb | 1,134.0 kg | **17306** | 4 lb | $525.00 |
| 3,000 lb | 1,360.8 kg | **17308** | 4 lb | $525.00 |
| 5,000 lb | 2,268.0 kg | **17309** | 4 lb | $525.00 |
| 10,000 lb | 4,535.9 kg | **17311** | 7 lb | $600.00 |
| 15,000 lb | 6,803.9 kg | **17313** | 7 lb | $600.00 |
| 20,000 lb | 9,071.9 kg | **17315** | 7 lb | $600.00 |
| 25,000 lb | 11,339.8 kg | **17317** | 7 lb | $600.00 |
| 50,000 lb | 22,679.6 kg | **17319** | 25 lb | $925.00 |
| 75,000 lb* | 34,019.4 kg | **25357** | 25 lb | $925.00 |

**75,000 lb capacity has a square center*






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DOUBLE-ENDED BEAM

# RL75016 Painted

Alloy Steel, Environmentally Sealed, IP67




## APPROVALS

FM APPROVED

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL75016*** **(Alloy)** ..... —

VPG CELTRON®
**DSR*** **(Alloy)** ..... —

VPG SENSORTRONICS®
**65016*** **(Alloy)** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL1600 Series** ..... —

**Cells are unpainted*

## Dimensions

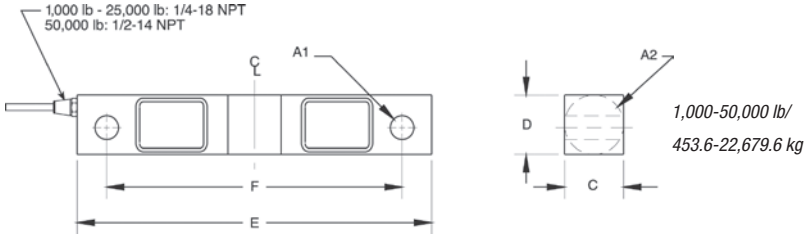
*Picture is a representation of actual product*

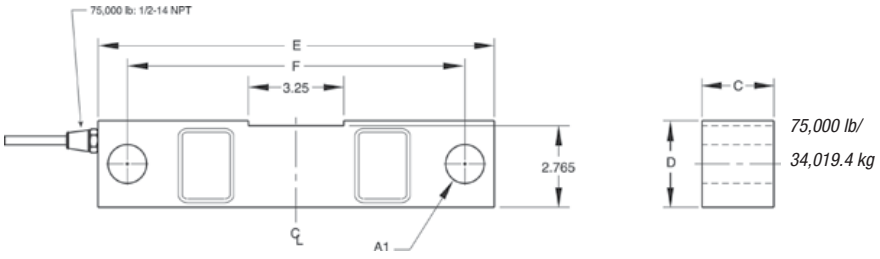
| Rated Capacity | A1 | A2 | C | D | E | F |
|---|---|---|---|---|---|---|
| **lb/in** | | | | | | |
| 1,000-5,000 | 0.50 | 1.25 | 1.25 | 1.25 | 7.50 | 6.25 |
| 10,000-25,000 | 0.81 | 1.99 | 1.44 | 1.94 | 8.75 | 7.50 |
| 50,000 | 1.31 | 3.00 | 2.44 | 2.94 | 13.50 | 11.50 |
| 75,000 | 1.31 | — | 2.44 | 2.94 | 13.50 | 11.50 |
| **kg/mm** | | | | | | |
| 453.6-2,268.0 | 12.7 | 31.8 | 31.8 | 31.8 | 190.5 | 158.8 |
| 4,535.9-11,339.8 | 20.6 | 50.8 | 36.6 | 49.3 | 222.3 | 190.5 |
| 22,679.6 | 33.3 | 76.2 | 62.0 | 74.7 | 342.9 | 292.1 |
| 34,019.4 | 33.3 | — | 62.0 | 74.7 | 342.9 | 292.1 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **187058** | 4 lb | $550.00 |
| 1,500 lb | 680.4 kg | **187059** | 4 lb | $550.00 |
| 2,000 lb | 907.2 kg | **187060** | 4 lb | $550.00 |
| 2,500 lb | 1,134.0 kg | **187061** | 4 lb | $550.00 |
| 3,000 lb | 1,360.8 kg | **187062** | 4 lb | $550.00 |
| 5,000 lb | 2,268.0 kg | **187063** | 4 lb | $550.00 |
| 10,000 lb | 4,535.9 kg | **187064** | 7 lb | $625.00 |
| 15,000 lb | 6,803.9 kg | **187065** | 7 lb | $625.00 |
| 20,000 lb | 9,071.9 kg | **187066** | 7 lb | $625.00 |
| 25,000 lb | 11,339.8 kg | **187067** | 7 lb | $625.00 |
| 50,000 lb | 22,679.6 kg | **187068** | 25 lb | $950.00 |
| 75,000 lb* | 34,019.4 kg | **187069** | 25 lb | $950.00 |

**75,000 lb capacity has a square center*




## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohm

**Input Resistance:**
770 (± 10) ohm

**Material/Finish:**
High-alloy steel, nickel plated, painted

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Nonlinearity:**
0.03% full scale

**Hysteresis:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
25 ft (7.6 m)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus



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# RL75016SS

Stainless Steel, Environmentally Sealed, IP67

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL75016WHE*** ..... —

VPG SENSORTRONICS®
**65016W** ..... —

VPG SENSORTRONICS
**65016WH*** ..... —

VPG REVERE®
**9203** ..... —
**Hermetically sealed*

## Weigh Module Available

SURVIVOR®
**RL1600 HE Series** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohm

**Input Resistance:**
770 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Nonlinearity:**
0.07% full scale

**Hysteresis:**
0.02% full scale

**Cable Diameter:**
1,000 lb-25,000 lb=0.200 polyurethane jacket
50,000 lb-75,000 lb=0.305 polyurethane jacket

**Deflection at Capacity:**
1,000 lb-3,000 lb=0.01 in (0.3 mm)
5,000 lb=0.015 in (0.4 mm)
10,000 lb-20,000 lb=0.022 in (0.6 mm)
25,000 lb=0.036 in (0.9 mm)
50,000 lb=0.052 in (1.3 mm)
75,000 lb=0.07 in (1.8 mm)

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
25 ft (7.6 m)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus



## APPROVALS

FM C US APPROVED

## Dimensions

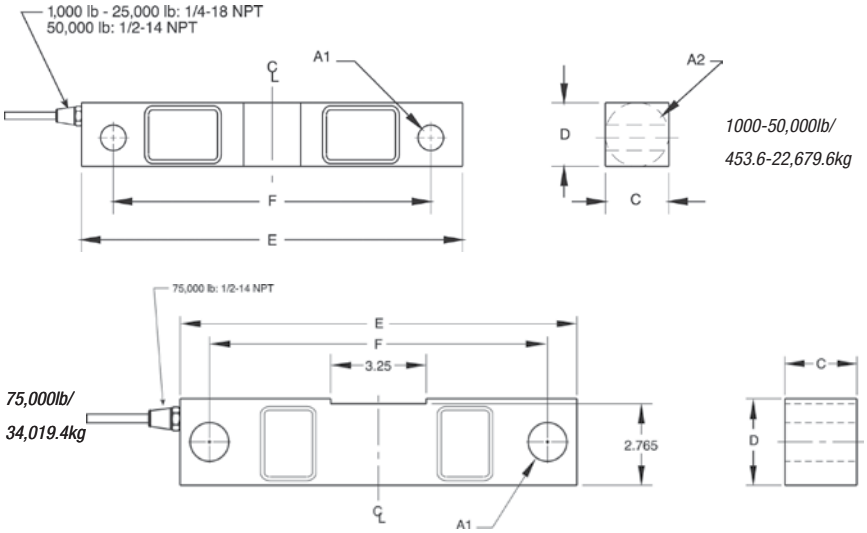
*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | C | D | E | F |
|---|---|---|---|---|---|---|
| **lb/in** | | | | | | |
| 1,000-5,000 | 0.50 | 1.25 | 1.25 | 1.25 | 7.50 | 6.25 |
| 10,000-25,000 | 0.81 | 1.99 | 1.44 | 1.94 | 8.75 | 7.50 |
| 50,000 | 1.31 | 3.00 | 2.44 | 2.94 | 13.50 | 11.50 |
| 75,000 | 1.31 | — | 2.44 | 2.94 | 13.50 | 11.50 |
| **kg/mm** | | | | | | |
| 453.6-2,268.0 | 12.7 | 31.8 | 31.8 | 31.8 | 190.5 | 158.8 |
| 4,535.9-11,339.8 | 20.6 | 50.8 | 36.6 | 49.3 | 222.3 | 190.5 |
| 22,679.6 | 33.3 | 76.2 | 62.0 | 74.7 | 342.9 | 292.1 |
| 34,019.4 | 33.3 | — | 62.0 | 74.7 | 342.9 | 292.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **17301** | 4 lb | $550.00 |
| 1,500 lb | 680.4 kg | **17303** | 4 lb | $550.00 |
| 2,000 lb | 907.2 kg | **17305** | 4 lb | $550.00 |
| 2,500 lb | 1,134.0 kg | **17307** | 4 lb | $550.00 |
| 5,000 lb | 2,268.0 kg | **17310** | 4 lb | $550.00 |
| 10,000 lb | 4,535.9 kg | **17312** | 7 lb | $625.00 |
| 15,000 lb | 6,803.9 kg | **17314** | 7 lb | $625.00 |
| 20,000 lb | 9,071.9 kg | **17316** | 7 lb | $625.00 |
| 25,000 lb | 11,334.8 kg | **17318** | 7 lb | $625.00 |
| 50,000 lb | 22,679.6 kg | **17320** | 25 lb | $1,225.00 |
| 75,000 lb* | 34,019.4 kg | **25356** | 27 lb | $1,225.00 |

**75,000 lb capacity has a square center*






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DOUBLE-ENDED BEAM

# RL75016SS-W

Stainless Steel, Welded Seal, IP67



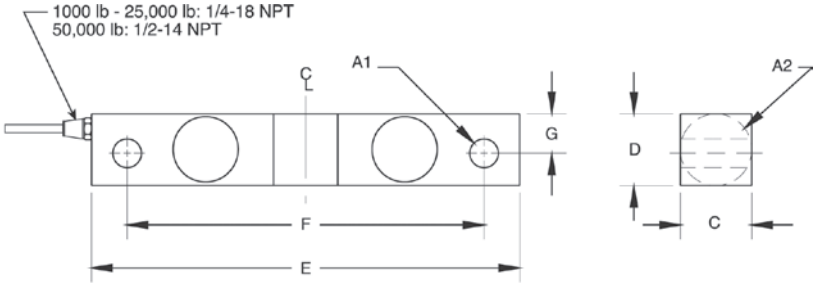
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | |
| 1,000-5,000 | 0.50 | 1.25 | 1.25 | 1.25 | 7.50 | 6.25 | 0.69 |
| 10,000-25,000 | 0.81 | 1.99 | 1.44 | 1.94 | 8.75 | 7.50 | 0.96 |
| 50,000 | 1.31 | 3.00 | 2.44 | 2.94 | 13.50 | 11.50 | 1.50 |
| **kg/mm** | | | | | | | |
| 453.6-2,268.0 | 12.7 | 31.8 | 31.8 | 31.8 | 190.5 | 158.8 | 17.5 |
| 4535.9-11,339.8 | 20.6 | 50.8 | 36.6 | 49.3 | 222.3 | 190.5 | 24.4 |
| 22,679.6 | 33.3 | 76.2 | 62.0 | 74.7 | 342.9 | 292.1 | 38.1 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **168114** | 5 lb | $595.00 |
| 5,000 lb | 2,268.0 kg | **168115** | 5 lb | $595.00 |
| 10,000 lb | 4,535.9 kg | **168116** | 7 lb | $675.00 |
| 15,000 lb | 6,803.9 kg | **168117** | 7 lb | $675.00 |
| 20,000 lb | 9,071.9 kg | **168118** | 7 lb | $675.00 |
| 25,000 lb | 11,339.8 kg | **168119** | 7 lb | $675.00 |
| 50,000 lb | 22,679.6 kg | **168120** | 33 lb | $1,295.00 |




## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL75016SS** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL75016WHE** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohm

**Input Resistance:**
770 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V max)

**Hysteresis:**
0.02% full scale

**Linearity:**
0.03% full scale

**Cable Length:**
25 ft (7.6 m)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty



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# RL75016WHE

Stainless Steel, Hermetically Sealed, IP69K

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL75016SS*** ..... —

RICE LAKE WEIGHING SYSTEMS
**RL75016SS-W*** ..... —

VPG SENSORTRONICS®
**65016W*** ..... —

VPG SENSORTRONICS®
**65016WH** ..... —
**Welded seal*

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL1600 Series** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
699-707 ohm

**Input Resistance:**
686-714 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
2,000 megohms

**Cable Length:**
25ft (7.6m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
Water Proof

## APPROVALS



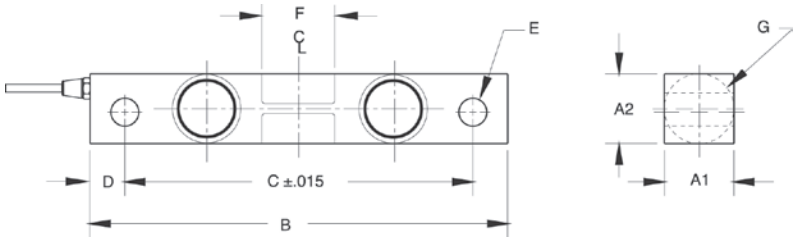
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A1 | A2 | B | C | D | E | F | G | CONDUIT ADAPTER |
|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | |
| 1,000-5,000 | 1.22 | 1.22 | 7.50 | 6.25 | 0.62 | 0.50 | 1.12 | 1.25 | 1/2-14 NPT |
| 10,000-25,000 | 1.44 | 1.94 | 8.75 | 7.50 | 0.62 | 0.81 | 1.62 | 1.99 | 1/2-14 NPT |
| **kg/mm** | | | | | | | | | |
| 453.6-2,268.0 | 31.0 | 31.0 | 190.5 | 158.8 | 15.7 | 12.7 | 28.4 | 31.8 | 1/2-14 NPT |
| 4,535.9-11,339.8 | 36.6 | 49.3 | 222.3 | 190.5 | 15.7 | 20.6 | 41.1 | 50.5 | 1/2-14 NPT |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 1,000 lb | 453.6 kg | **67043** | 4 lb | $695.00 |
| 1,500 lb | 680.4 kg | **67044** | 4 lb | $695.00 |
| 2,000 lb | 907.2 kg | **67045** | 4 lb | $695.00 |
| 2,500 lb | 1,124.0 kg | **67046** | 4 lb | $695.00 |
| 5,000 lb | 2,268.0 kg | **67047** | 4 lb | $695.00 |
| 10,000 lb | 4,535.9 kg | **67048** | 7 lb | $785.00 |
| 15,000 lb | 6,803.9 kg | **67049** | 7 lb | $785.00 |
| 20,000 lb | 9,071.8 kg | **67050** | 7 lb | $785.00 |
| 25,000 lb | 11,339.8 kg | **67051** | 7 lb | $785.00 |






www.ricelake.com | Phone: 800-472-6703

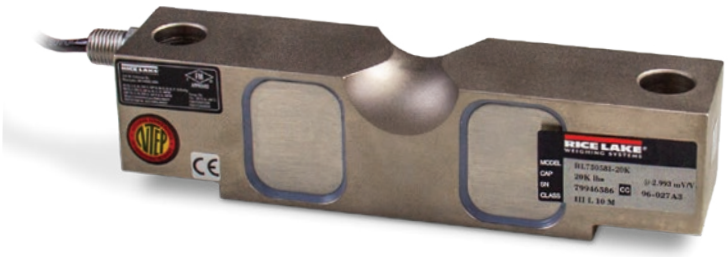


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DOUBLE-ENDED BEAM

# RL75058I

Alloy Steel, Environmentally Sealed, NTEP Certified1:10,000 Class IIIL Multiple Cell, IP67



## APPROVALS

FM APPROVED

## Interchangeable Products

VPG SENSORTRONICS®
**65058A** ..... —

VPG CELTRON®
**CLB** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL2100HE** ..... —

RICE LAKE WEIGHING SYSTEMS
**MVS** ..... —

## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | C | D | E | F | G | H | J | K | L | T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 10,000-25,000 | 0.68 | 1.69 | 1.94 | 7.75 | 6.50 | 1.38 | 0.75 | 0.90 | 1.63 | 1.70 | 1/4-18 NPT |
| 40,000 | 0.81 | 1.94 | 2.44 | 10.25 | 8.50 | 1.93 | 1.00 | 1.12 | 2.00 | 2.10 | 1/4-18 NPT |
| 50,000-75,000 | 1.06 | 2.44 | 2.94 | 10.25 | 8.50 | 1.93 | 1.00 | 1.37 | 2.54 | 2.65 | 1/2-14 NPT |
| 100,000-125,000 | 1.62 | 2.90 | 3.86 | 15.25 | 12.75 | 3.13 | 1.50 | 1.80 | 3.30 | 3.43 | 1/2-14 NPT |
| **kg/mm** | | | | | | | | | | | |
| 4,535.9-11,339.8 | 17.3 | 42.9 | 49.3 | 196.9 | 165.1 | 35.1 | 19.1 | 22.9 | 41.4 | 43.2 | 1/4-18 NPT |
| 18,143.7 | 20.6 | 49.3 | 62.0 | 260.4 | 215.9 | 49.0 | 25.4 | 28.5 | 50.8 | 53.3 | 1/4-18 NPT |
| 22,679.6-34,019.4 | 26.9 | 62.0 | 74.7 | 260.4 | 215.9 | 49.0 | 25.4 | 34.8 | 64.5 | 67.3 | 1/2-14 NPT |
| 45,359.4-56,699.1 | 41.2 | 737.0 | 980.0 | 387.4 | 323.9 | 79.5 | 38.1 | 45.7 | 83.8 | 87.1 | 1/2-14 NPT |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 20,000 lb | 9,071.9 kg | **34314** | 8 lb | $635.00 |
| 25,000 lb | 11,339.8 kg | **34315** | 8 lb | $635.00 |
| 40,000 lb | 18,143.7 kg | **34316** | 13 lb | $760.00 |
| 50,000 lb | 22,679.6 kg | **34317** | 19 lb | $835.00 |
| 60,000 lb | 27,215.5 kg | **34318** | 19 lb | $835.00 |
| 75,000 lb | 34,019.4 kg | **34319** | 19 lb | $835.00 |
| 100,000 lb | 45,359.4 kg | **34320** | 40 lb | $1,575.00 |
| 125,000 lb | 56,699.1 kg | **34321** | 40 lb | $1,575.00 |
| **Non-NTEP Certified** | | | | |
| 10,000 lb | 4535.9 kg | **41890** | | $615.00 |
| **NTEP Certified 60 ft Cables** | | | | |
| 50,000 lb | 22,679.6 kg | **53417** | 20 lb | $895.00 |
| 75,000 lb** | 34,019.4 kg | **39516** | 20 lb | $895.00 |
| 75,000 lb* | 34,019.4 kg | **73839** | 20 lb | $995.00 |
| 125,000 lb | 45,359.4 kg | **96944** | 40 lb | $1,625.00 |
| **NTEP Certified 100 ft Cable** | | | | |
| 75,000 lb | 34,019.4 kg | **74725** | 22 lb | $995.00 |

**Stainless steel overbraid cable*
***Used in Rice Lake truck scales*

## Replacement Load Cells for RL75058 Class III Rice Lake Coil Scale

| Load Rating | Part # | Est. Weight | Price |
|---|---|---|---|
| 20,000 lb | **121439** | 8 lb | $635.00 |
| 25,000 lb | **121440** | 8 lb | $635.00 |
| 40,000 lb | **121441** | 13 lb | $760.00 |
| 50,000 lb | **121442** | 19 lb | $835.00 |
| 60,000 lb | **121443** | 19 lb | $835.00 |
| 75,000 lb | **121444** | 19 lb | $835.00 |

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohms

**Input Resistance:**
770 (± 10) ohms

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

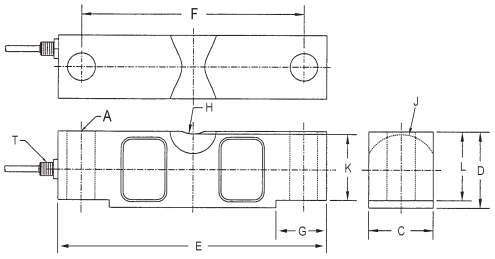
**Cable Length:**
35ft (10.7m)

**Cable Diameter:**
0.200 polyurethane jacket 10,000lb-25,000lb
0.305 polyurethane jacket 40,000lb-125,000lb

**Cable Coloring Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP






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# RL75060S

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 III/1:10,000 Class IIIL Multiple Cell, IP67

## Interchangeable Products

VPG SENSORTRONICS®
**65058S** ..... —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**RL2100HE** ..... —

RICE LAKE WEIGHING SYSTEMS
**MVS** ..... —

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
699-707 ohm

**Input Resistance:**
686-714 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
35ft (10.6m)

**Cable Diameter:**
0.200 polyurethane jacket 20,000lb-25,000lb
0.305 polyurethane jacket 35,000lb-100,000lb

**Cable Coloring:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP
Water Proof

## APPROVALS

FM C US APPROVED

NTEP

WATER PROOF



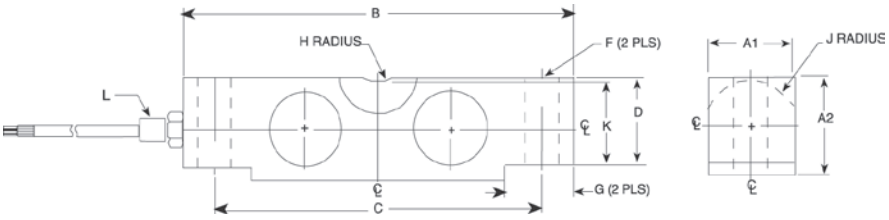
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | F | A1 | A2 | B | C | G | H | J | K | D | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | |
| 20,000-25,000 | 0.68 | 1.69 | 1.94 | 7.75 | 6.50 | 1.38 | 0.75 | 0.90 | 1.63 | 1.70 | 1/4-18 NPT |
| 35,000-75,000 | 1.06 | 2.44 | 2.94 | 10.25 | 8.50 | 1.93 | 1.00 | 1.37 | 2.54 | 2.65 | 1/2-14 NPT |
| 100,000 | 1.06 | 2.44 | 3.44 | 10.25 | 8.50 | 1.93 | 1.00 | 1.37 | 2.54 | 2.65 | 1/2-14 NPT |
| **kg/mm** | | | | | | | | | | | |
| 9,071.9-11,339.8 | 17.3 | 42.9 | 49.3 | 196.9 | 165.1 | 35.1 | 19.1 | 22.9 | 41.4 | 43.2 | 1/4-18 NPT |
| 15,875.7-34,019.4 | 26.9 | 62.0 | 74.7 | 260.4 | 215.9 | 49.0 | 25.4 | 34.8 | 64.5 | 67.3 | 1/2-14 NPT |
| 45,359.4 | 26.9 | 62.0 | 87.4 | 260.4 | 215.9 | 49.0 | 25.4 | 34.8 | 64.5 | 67.3 | 1/2-14 NPT |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 20,000 lb | 9,071.9 kg | **53481** | 6 lb | $875.00 |
| 25,000 lb | 11,339.8 kg | **50559** | 6 lb | $875.00 |
| 35,000 lb | 15,875.7 kg | **50560** | 19 lb | $1,095.00 |
| 50,000 lb | 22,679.6 kg | **50561** | 19 lb | $1,095.00 |
| 60,000 lb | 27,215.5 kg | **50562** | 19 lb | $1,095.00 |
| 75,000 lb | 34,019.4 kg | **50563** | 19 lb | $1,095.00 |
| 100,000 lb | 45,359.4 kg | **50564** | 19 lb | $1,995.00 |
| **60 ft Cable** | | | | |
| 25,000 lb | 11,339.8 kg | **157931** | 6 lb | $925.00 |








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DOUBLE-ENDED BEAM

# RL75223

Alloy Steel, Welded Seal, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67



## APPROVALS

FM C US APPROVED

NTEP

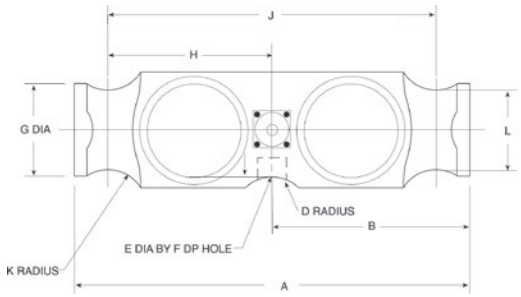
## Dimensions

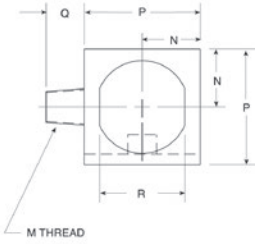
*Picture is a representation of actual product*

| Rated Capacity | A | B | D | E | F | G | H | J | K | L | M | N | P | Q | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | | | | | | |
| 50,000-65,000 | 10.25 | 5.12 | 1.00 | 0.75 | 0.78 | 2.40 | 4.25 | 8.50 | 1.00 | 2.06 | 1/2-14 NPT | 1.50 | 3.00 | 1.03 | 2.20 |
| 100,000 | 10.25 | 5.12 | 1.00 | — | — | 2.40 | 4.25 | 8.50 | 1.00 | 2.06 | 1/2-14 NPT | 1.50 | 3.00 | 1.03 | 2.20 |
| **kg/mm** | | | | | | | | | | | | | | | |
| 22,679.6-29,483.5 | 260.4 | 130.1 | 25.4 | 19.1 | 19.8 | 61.0 | 108.0 | 215.9 | 25.4 | 5.2 | 1/2-14 NPT | 38.1 | 76.2 | 26.2 | 55.9 |
| 45,359.2 | 260.4 | 130.1 | 25.4 | — | — | 61.0 | 108.0 | 215.9 | 25.4 | 5.2 | 1/2-14 NPT | 38.1 | 76.2 | 26.2 | 55.9 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50,000 lb | 22,679.6 kg | **21611** | 20 lb | $850.00 |
| 65,000 lb | 29,483.5 kg | **21612** | 20 lb | $850.00 |
| 100,000 lb | 45,359.2 kg | **21613** | 20 lb | $1,095.00 |
| **60 ft Cable** | | | | |
| 50,000 lb | 22,679.6 kg | **107583** | 20 lb | $925.00 |




## Interchangeable Products

VPG REVERE®
**5223** — 

VPG SENSORTRONICS®
**65040A-XX-1127W** — 

ARTECH®
**80210** — 

THURMAN®
**TSC 800** — 

UNIBRIDGE®
**DL9000** — 

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**Translink** — 

## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
699-707 ohm

**Input Resistance:**
686-714 ohm

**Material/Finish:**
High-alloy steel

**Temperature:**
Compensated range:
14°F to 104°F/-10°C to 40°C
Operating range:
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Non-repeatability:**
0.01% full scale

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
50,000lb=0.018in (0.5mm)
65,000lb=0.022in (0.6mm)
100,000lb=0.034in (0.9mm)

**Cable Length:**
40 ft (12.2 m)
60 ft (18.2 m)

**Cable Diameter:**
0.305 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFM us
NTEP



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# RLDB50000S

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 IIIL Multiple Cell, IP67

## Interchangeable Products

CARDINAL®
**DB50000S**.....—

## Specifications

**Full Scale Output:**
2 ± 0.1% mV/V

**Output Resistance:**
699-707 ohm

**Input Resistance:**
686-714 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated Range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full Scale

**Safe Sideload:**
100% full Scale

**Rated Excitation:**
5-10 VDC (15 V DC maximum)

**Non-repeatability:**
0.01% full Scale

**Combined Error:**
0.03% full Scale

**Insulation Resistance:**
5000 megohms

**Deflection at Capacity:**
50,000 lb=0.01 in (0.38 mm)

**Cable Length:**
35 ft (10.6 m)

**Cable Diameter:**
0.305 polyurethane jacket

**Cable Color Code:**
Red +Excitation
Black –Excitation
White +Signal
Green –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS



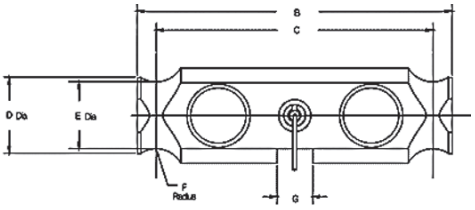
## Dimensions

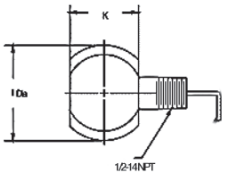
*Picture is a representation of actual product*

| Rated Capacity | B | C | D | E | F | G | K | I |
|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | |
| 50,000 | 8.25 | 7.25 | 2.00 | 1.76 | 0.75 | 0.93 | 1.8 | 2.5 |
| kg/mm | | | | | | | | |
| 22,679.6 | 209.55 | 184.15 | 50.8 | 44.7 | 19.00 | 23.6 | 45.72 | 63.50 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 50,000 lb | 22,679.6 kg | **91765** | 10 lb | $1,195.00 |








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DOUBLE-ENDED BEAM

# RL75040

Alloy Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67



## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

VPG SENSORTRONICS®
**65040A** ..... —

ARTECH®
**80310** ..... —

THURMAN®
**TSC 840** ..... —

SENTRAN
**WD1** .....

ANYLOAD
**102TH** .....

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**Translink™** ..... —

## Dimensions

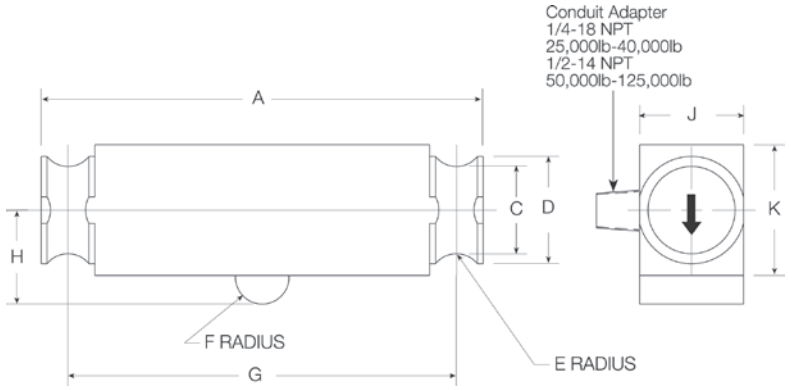
*Picture is a representation of actual product*

| Rated Capacity | A | C | D | E | F | G | H | J | K |
|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | |
| 25,000-60,000 SE | 8.25 | 1.63 | 2.00 | 0.50 | 0.50 | 7.25 | 1.75 | 1.94 | 2.44 |
| 50,000 LE-75,000 | 11.50 | 1.70 | 2.20 | 0.75 | 1.00 | 10.00 | 2.00 | 1.94 | 2.94 |
| 100,000-125,000 | 14.50 | 2.44 | 3.20 | 1.00 | 1.50 | 12.50 | 2.75 | 2.90 | 3.86 |
| **kg/mm** | | | | | | | | | |
| 11,339.8-27,215.5 SE | 209.6 | 41.4 | 50.8 | 12.7 | 12.7 | 184.2 | 44.5 | 49.3 | 62.0 |
| 22,679.6 LE-34,019.4 | 292.1 | 43.2 | 55.9 | 19.1 | 25.4 | 254.0 | 50.8 | 49.3 | 74.7 |
| 45,359.2-56,699.1 | 368.3 | 62.00 | 81.3 | 25.4 | 38.1 | 317.5 | 69.9 | 73.7 | 98.0 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **35 ft Cable** | | | | |
| 25,000 lb | 11,339.8 kg | **21614** | 11 lb | $635.00 |
| 40,000 lb | 18,143.7 kg | **21615** | 12 lb | $760.00 |
| 50,000 lb LE | 22,679.6 kg LE | **21616** | 17 lb | $835.00 |
| 60,000 lb LE | 27,215.5 kg LE | **21617** | 17 lb | $835.00 |
| 75,000 lb | 34,019.4 kg | **21618** | 17 lb | $835.00 |
| 100,000 lb | 45,359.2 kg | **21619** | 40 lb | $1,575.00 |
| 125,000 lb | 56,699.1 kg | **21620** | 40 lb | $1,575.00 |
| **40 ft Cable** | | | | |
| 50,000 lb SE | 22,679.6 kg SE | **87253** | 11 lb | $760.00 |
| 60,000 lb SE | 27,215.5 kg SE | **53593** | 11 lb | $760.00 |
| **50 ft Cable** | | | | |
| 50,000 lb LE | 22,679.6 kg LE | **21621** | 18 lb | $865.00 |
| 60,000 lb LE | 27,215.5 kg LE | **21622** | 18 lb | $865.00 |
| 75,000 lb | 34,020 kg | **40951** | 18 lb | $865.00 |

*SE=small envelope; LE=large envelope; 700 ohm ± 14 ohm input resistance*




## Specifications

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
700 (± 5) ohm

**Input Resistance:**
770 (± 10) ohm

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
35 ft (10.6 m)
40 ft (12.2 m)
50 ft (5.2 m)

**Cable Diameter:**
0.200 polyurethane jacket 25,000 lb
0.305 polyurethane jacket 40,000 lb-75,000 lb

**Cable Coloring Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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COMPRESSION CANISTER

# RLCSP1

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67




## APPROVALS

cFMus APPROVED

NTEP

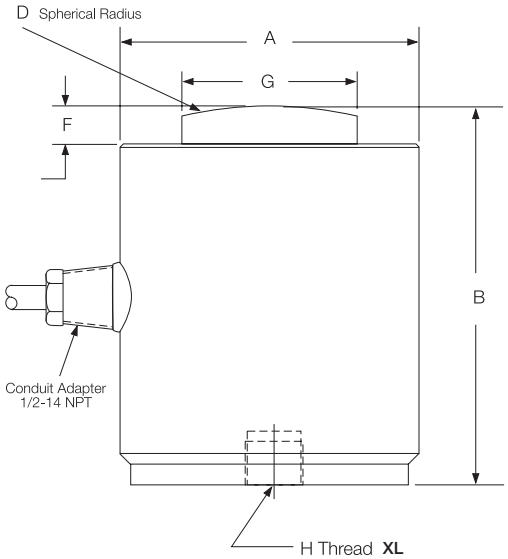
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | D | F | G | H | L-DEPTH |
|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | |
| 25,000-50,000 | 3.00 | 3.25 | 6.00 | 0.40 | 1.25 | 1/2-20 UNF | 0.31 |
| 100,000 | 4.00 | 5.00 | 6.00 | 0.51 | 2.31 | 3/4-16 UNF | 0.56 |
| 200,000 | 6.00 | 7.25 | 17.00 | 1.04 | 3.13 | 3/4-16 UNF | 0.75 |
| **kg/mm** | | | | | | | |
| 11,339.8-22,679.6 | 76.2 | 82.6 | 152.4 | 10.2 | 31.8 | 1/2-20 UNF | 7.9 |
| 45,359.2 | 101.6 | 127.0 | 152.4 | 13.0 | 58.7 | 3/4-16 UNF | 14.2 |
| 90,718.5 | 152.4 | 184.2 | 431.8 | 26.4 | 79.5 | 3/4-16 UNF | 19.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 25,000 lb | 11,339.8 kg | **32702** | 7 lb | $1,795.00 |
| 50,000 lb | 22,679.6 kg | **32701** | 7 lb | $1,795.00 |
| 100,000 lb | 45,359.2 kg | **32700** | 15 lb | $2,100.00 |
| 200,000 lb | 90,718.5 kg | **32699** | 28 lb | $2,995.00 |




## Interchangeable Products

VPG REVERE®
**CSP** —

VPG SENSORTRONICS®
**65088-1000** —

VPG REVERE®
**692B** —

HOWE RICHARDSON®
**244699-000X** —

STREETER AMET®
**3760XXX** —

## Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
**MagnaMount®** —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
475.2-484.8 ohm

**Input Resistance:**
445.5-454.5 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

**Non-repeatability:**
0.01% full scale

**Insulation Resistance:**
1,000 megohms

**Deflection at Capacity:**
25,000 lb-50,000 lb=0.003 in (0.076 mm)
100,000 lb-200,000 lb=(0.006 in (0.152 mm)

**Cable Length:**
35 ft (10.7 m)

**Cable Diameter:**
0.305 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Orange Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL8C2P1SST

Stainless Steel, Hermetically Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP68

## Interchangeable Products

VPG REVERE®
**792** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 +/- 3.5 ohm

**Input Resistance:**
350 +/- 3.5 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0°F to 150°F/-18°C to 65°C

**Seal Type:**
Hermetically sealed, IP68

**Safe Overload:**
150% full scale

**Rated Excitation:**
10 VDC (15 V maximum)

**Non-repeatability:**
0.01% full scale

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
>1,000 megohms

**Deflection at Capacity:**
50,000 lb=.004 in/102 mm,
100,000 lb=.006 in/.152 mm,
200,000 lb=.009 in/.228 mm

**Cable Length:**
35 ft (10.7 m)

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Orange Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP

## APPROVALS

FM APPROVED

NTEP



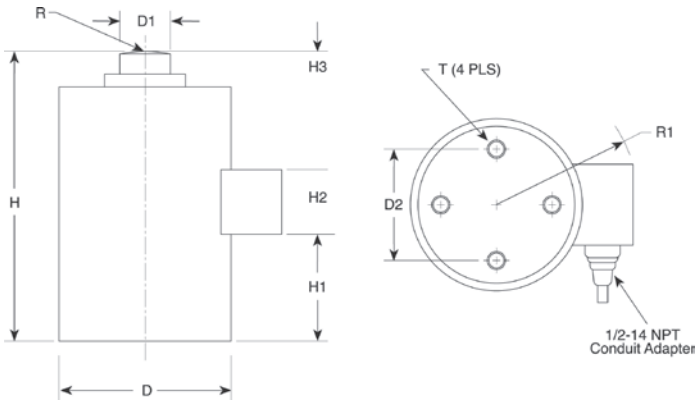
*Picture is a representation of actual product*

## Dimensions

| Rated Capacity | D | D1 | D2 | H | H1 | H2 | H3 | R | R1 | T |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 50,000 | 4.50 | 1.25 | 2.38 | 7.50 | 1.17 | 0.75 | 0.75 | 8.00 | 3.75 | 3/8-24 UNF x .63 DP |
| 100,000 | 5.75 | 1.75 | 4.00 | 9.13 | 2.00 | 0.87 | 1.05 | 12.00 | 4.05 | 1/2-20 UNF x .75 DP |
| 200,000 | 7.50 | 2.50 | 5.50 | 11.63 | 2.93 | 0.97 | 0.97 | 12.00 | 5.11 | 5/8-18 UNF x 25.4 DP |
| **kg/mm** | | | | | | | | | | |
| 22,679.6 | 114.3 | 31.8 | 53.4 | 190.5 | 77.7 | 19.1 | 19.1 | 203.2 | 95.3 | 3/8-24 UNF x .63 DP |
| 45,359.2 | 146.1 | 44.5 | 101.6 | 231.9 | 66.0 | 22.1 | 26.6 | 304.8 | 102.9 | 1/2-20 UNF x .75 DP |
| 90,718.5 | 190.5 | 63.5 | 139.7 | 295.4 | 100.0 | 24.6 | 24.6 | 304.8 | 129.8 | 5/8-18 UNF x 25.4 DP |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50,000 lb | 22,679.6 kg | **34855** | 20 lb | $2,195.00 |
| 100,000 lb | 45,359.2 kg | **34856** | 36 lb | $2,195.00 |
| 200,000 lb | 90,718.5 kg | **34857** | 75 lb | $3,395.00 |






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ROCKER COLUMN

# RLSCA-50K

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67



## APPROVALS

## Dimensions

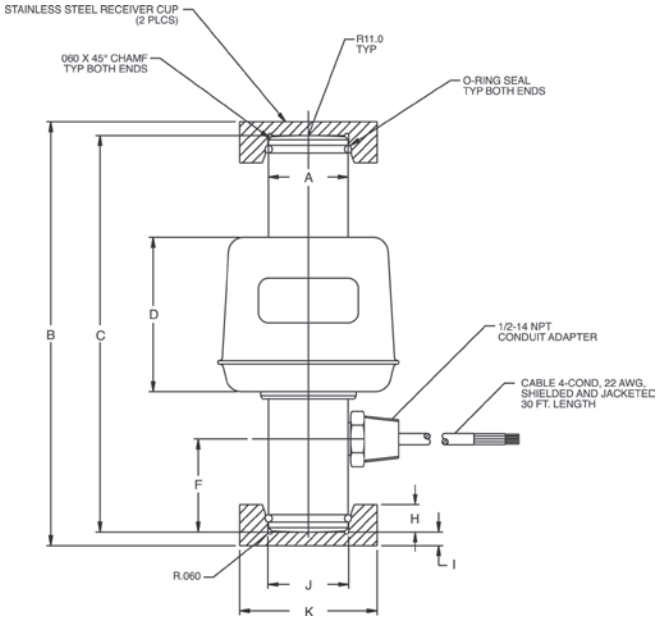
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | F | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | |
| 50,000 | 1.46 | 7.75 | 7.25 | 2.82 | 1.70 | 0.50 | 0.25 | 1.48 | 2.50 |
| **kg/mm** | | | | | | | | | |
| 22,679.6 | 37.0 | 196.8 | 184.1 | 71.6 | 43.1 | 12.7 | 6.35 | 37.5 | 63.5 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50,000 lb* | 22,679.6 kg | **68918** | 7 lb | $995.00 |
| **Replacement Parts** | | | | |
| Replacement load cup set upper and lower included | | **85433** | 1 lb | $95.00 |
| Replacement O-ring | | **92988** | 1 lb | $1.00/each |

**Load cell supplied with load cups*




## Interchangeable Products

CARDINAL®

**SCA-50K**..... —

## Specifications

**Full Scale Output:**
2 mv/V nominal

**Output Resistance:**
1,050 (± 10) ohm

**Input Resistance:**
1,100-1,500 ohm

**Material/Finish:**
Stainless Steel

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Welded-seal, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.025% full scale

**Non-repeatability:**
0.01% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
30 ft (9.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP



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# RL70510-30t/RL80453-100,000 lb

Stainless Steel, Hermetically Sealed, NTEP Certified 1:10,000 Class III L, IP69K

## Interchangeable Products

FAIRBANKS®
**70510**..... *LCF HR 4020-2A*
FAIRBANKS
**80453**..... *LCF HR 4020-21*

## Specifications

**Full Scale Output:**
2.0 mV/v

**Output Resistance:**
1,000 (± 2) ohm

**Input Resistance:**
1,150 (± 50) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated Range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
200% full scale

**Rated Excitation:**
5-10 VDC (15 V max)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
15 ft (4.5 m) stainless overbraid

**Cable Diameter:**
0.200 overbraid cable

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP



## APPROVALS

## Dimensions

*Picture is a representation of actual product*

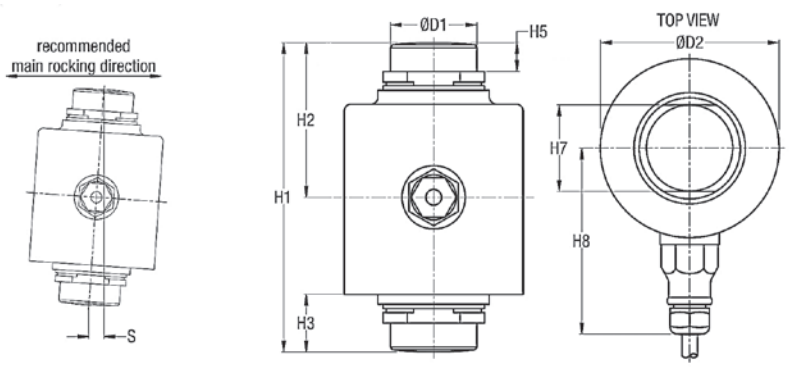
| Rated Capacity | H1 | H2 | H3 | H5 | H7 | H8 | D1 | D2 |
|---|---|---|---|---|---|---|---|---|
| t/mm | | | | | | | | |
| 30 | 5.51 | 2.76 | 1.02 | 0.51 | 1.54 | 3.32 | 1.54 | 3.18 |
| lb/in | | | | | | | | |
| 100,000 | 5.91 | 2.95 | 1.30 | 0.51 | 1.54 | 3.32 | 1.54 | 3.18 |

## Order Information: RL70510

| Load Rating | Part# | Est. Weight | Price |
|---|---|---|---|
| 30 t | **169363** | 6 lb | $985.00 |
| Upper load cup | **109332** | 4 lb | $135.00 |
| Lower load cup | **109331** | 4 lb | $110.00 |

## Order Information: RL80453

| Load Rating | Part# | Est. Weight | Price |
|---|---|---|---|
| 100,000 lb | **169365** | 6 lb | $1,010.00 |
| Upper load cup | **109332** | 4 lb | $135.00 |
| Lower load cup | **109331** | 4 lb | $110.00 |






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ROCKER COLUMN

# RL75114-50K

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 Class III L, IP67



## APPROVALS

## Dimensions

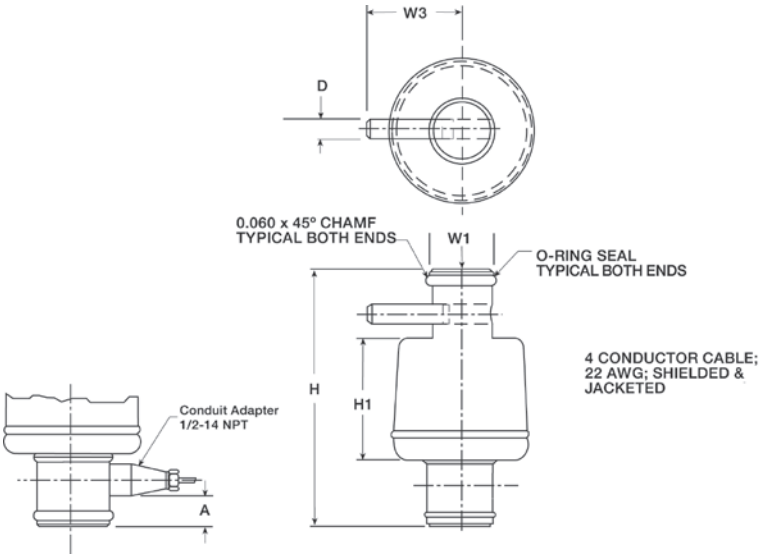
*Picture is a representation of actual product*

| Rated Capacity | A | D | H | H1 | W1 | W3 |
|---|---|---|---|---|---|---|
| **lb/in** | | | | | | |
| 50,000 LE | 0.87 | 0.38 | 7.56 | 2.82 | 1.46 | 2.18 |
| **kg/mm** | | | | | | |
| 22,679.6 | 15.6 | 9.7 | 192.0 | 71.6 | 37.08 | 63.5 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50,000 lb LE | 22,679.6 kg | **88074** | 6 lb | $1,195.00 |
| **Replacement Parts** | | | | |
| Replacement O-ring | | **92988** | 1lb | $1.00 |
| Spring pin | | **116181** | 1 lb | $5.00 |

*LE=Large envelope*
*Not interchangeable with Sensortronics 65114 - different mV/v*




## Interchangeable Products

FAIRBANKS®

**64166**..... *LCF HR 4020-2*

## Specifications

**Full Scale Output:**
1.8 mV/v nominal

**Output Resistance:**
1,000 (± 10) ohm

**Input Resistance:**
1,000 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated Range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Welded-Seal, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC

**Combined Error:**
0.025% full scale

**Non-repeatability:**
0.01% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
30 ft (9.1 m)

**Cable Diameter:**
0.200 overbraid cable

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP



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# RL90000

Alloy Steel, Environmentally Sealed, IP67

## Interchangeable Products

VPG CELTRON®
**LCD** ..... —

## Specifications

**Full Scale Output:**
4.0 mV/V

**Output Resistance:**
350 (± 3) ohm (5,000 lb-50,000 lb)
700 (± 5) ohm (100,000 lb)

**Input Resistance:**
385 (± 5) ohm (5,000 lb-50,000 lb)
770 (± 70) ohm (100,000 lb)

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
15 VDC (15 V maximum)

**Nonlinearity:**
0.05% full scale

**Hysteresis:**
0.02% full scale

**Insulation Resistance:**
2,000 megohms

**Cable Length:**
50 ft (15.2 m)

**Cable Diameter:**
0.200 polyurethane jacket (5,000 lb-25,000 lb)
0.305 polyurethane jacket (50,000 lb-100,000 lb)

**Cable Color Code:**
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus



*25K shown*




*5K shown*

## APPROVALS

FM C US APPROVED

*Load cup sold separately on 5,000 and 10,000 lb models.*

## Dimensions

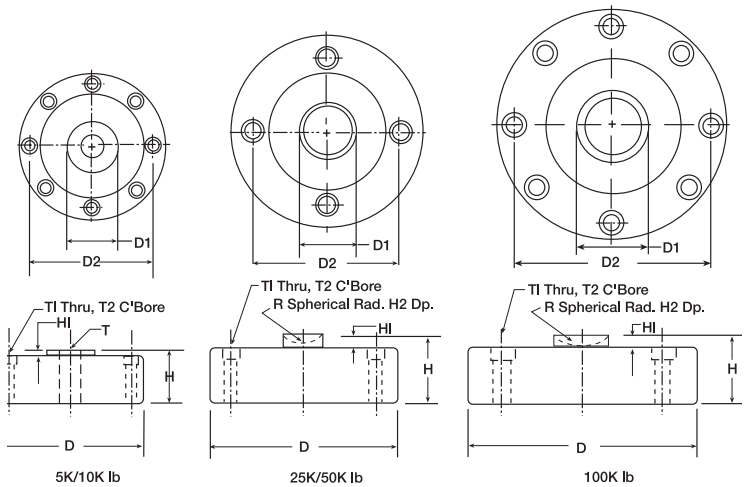
*Picture is a representation of actual product*

| Rated Capacity | T | R | D | D1 | D2 | H | H1 | H2 | T1 | T2 |
|---|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | | |
| 5,000*-10,000* | 5/8-18 UNF-3B | — | 4.12 | 1.26 | 3.50 | 1.37 | 0.12 | — | 0.28 | 0.406 x 0.283 DP |
| 25,000-50,000 | — | 0.875 | 4.75 | 1.53 | 4.00 | 2.12 | 0.50 | 0.30 | 0.34 | 0.508 x 0.38 DP |
| 100,000 | — | 0.875 | 5.50 | 1.98 | 4.60 | 2.25 | 0.25 | 0.30 | 0.41 | 0.626 x 0.4 DP |
| **kg/mm** | | | | | | | | | | |
| 2,268.0*-4,539.9* | 5/8-18 UNF-3B | — | 104.6 | 32.0 | 88.9 | 34.8 | 3.05 | 7.6 | 7.2 | 10.3 x 7.2 DP |
| 11,339.8-22,679.7 | — | 22.2 | 120.7 | 38.9 | 101.6 | 53.8 | 12.7 | 7.6 | 8.7 | 12.9 x 9.7 DP |
| 45,359.4 | — | 22.2 | 139.7 | 50.4 | 116.8 | 57.2 | 6.4 | 7.6 | 10.3 | 10.3 x 10.2 DP |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 5,000 lb* | 2,268.0 kg | **33061** | 6 lb | $650.00 |
| 10,000 lb* | 4,535.9 kg | **33062** | 6 lb | $650.00 |
| 25,000 lb | 11,339.8 kg | **33063** | 9 lb | $795.00 |
| 50,000 lb | 22,679.7 kg | **33064** | 9 lb | $795.00 |
| 100,000 lb | 45,359.4 kg | **33065** | 13 lb | $935.00 |
| Load Cup** | | **33616** | | $35.00 |

**5,000 lb and 10,000 lb models can be used in compression and tension load applications.*
***Load cup, PN 33616, is required for compression applications on 5,000 lb and 10,000 lb capacity load cells.*






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SINGLE POINT

# RLPC6

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP69K




## APPROVALS

FM APPROVED

NTEP

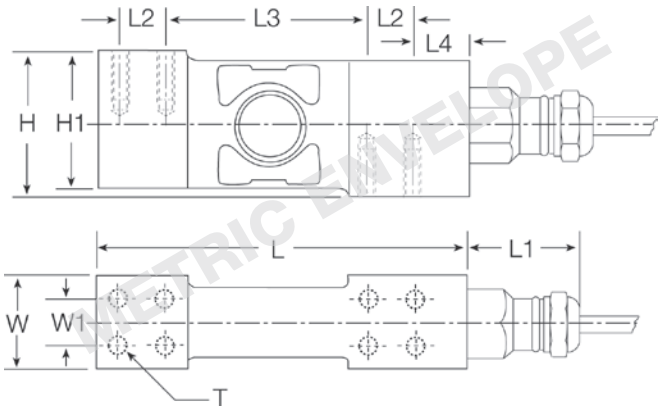
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | H | H1 | L | L1 | L2 | L3 | L4 | W | W1 | T |
|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | |
| 10-200 | 48.0 | 45.5 | 123.0 | 41.0 | 15.2 | 67.6 | 17.8 | 30.1 | 15.2 | 8 x M6/15 DP |
| **lb/in** | | | | | | | | | | |
| 22-441.0 | 1.89 | 1.80 | 4.84 | 1.61 | 0.60 | 2.66 | 0.70 | 1.18 | 0.60 | 8 x M6/15 DP |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 10 kg | 22 lb | **87027** | 3 lb | $595.00 |
| 20 kg | 44.1 lb | **87028** | 3 lb | $595.00 |
| 50 kg | 110.2 lb | **87029** | 3 lb | $595.00 |
| 100 kg | 220.5 lb | **87030** | 3 lb | $595.00 |
| 200 kg | 441.0 lb | **87031** | 3 lb | $595.00 |




METRIC ENVELOPE

## Interchangeable Products

FLINTEC®

**PC6** ..... —

## Specifications

**Full Scale Output:**
2.0 mv/v

**Output Resistance:**
960 (± 50) ohm, nominal

**Input Resistance:**
1,100 (± 50) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14˚F to 104˚F (-10˚C to 40˚C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
200% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.196 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

**Max Deflection:**
.006-.010

**Max Platform Size:**
24 in x 24 in

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP



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# RLPWM15HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP69K

## Interchangeable Products

HBM®
**PW15AH**.....—

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 10) ohm

**Input Resistance:**
380 (± 15) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
10 ft (3.1 m)
2.83 ft (0.86 m)

**Cable Diameter:**
0.212 PVC jacket

**Cable Color Code:**
Blue +Excitation
Black –Excitation
White +Signal
Red –Signal
Green +Sense
Grey –Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP

## APPROVALS

FM APPROVED

NTEP




## Dimensions

*Picture is a representation of actual product*

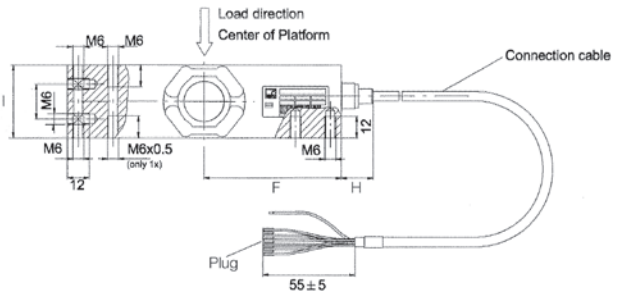
| Rated Capacity | B | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|
| kg/mm | | | | | | | |
| 10-100 | 19.00 | 25.00 | 75.00 | 100.00 | 17.5 | 40.00 | 150.00 |
| lb/in | | | | | | | |
| 22-220.5 | 0.75 | 0.98 | 2.95 | 3.94 | 0.69 | 1.57 | 5.91 |

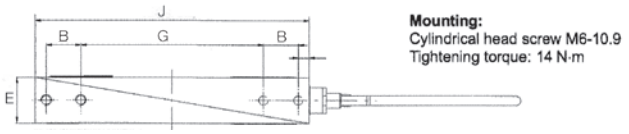
## Order Information: 10 ft cables

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 10 kg | 22.0 lb | **108685** | 3 lb | $695.00 |
| 20 kg | 44.1 lb | **108686** | 3 lb | $695.00 |
| 50 kg | 110.2 lb | **108687** | 3 lb | $695.00 |
| 100 kg | 220.5 lb | **108688** | 3 lb | $695.00 |

## Order Information: 2.83 ft cables

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 10 kg | 22.0 lb | **107174** | 3 lb | $695.00 |
| 20 kg | 44.1 lb | **107175** | 3 lb | $695.00 |
| 50 kg | 110.2 lb | **107176** | 3 lb | $695.00 |
| 100 kg | 220.5 lb | **107177** | 3 lb | $695.00 |




**Mounting:**
Cylindrical head screw M6-10.9
Tightening torque: 14 N·m







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SINGLE POINT

# RLPWM15

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67



## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

HBM®
**PW15** ..... —

VPG TEDEA-HUNTLEIGH®
**1142** ..... —

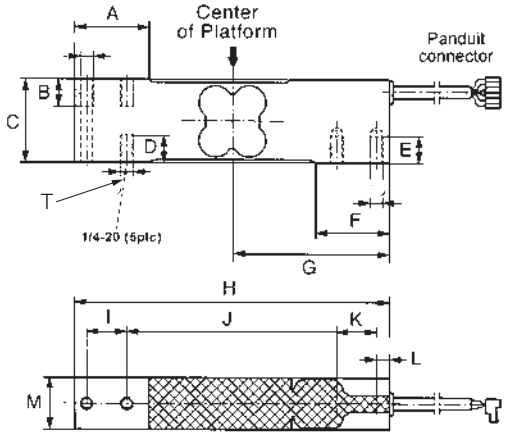
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | | | |
| 10 - 150 | 35.00 | 13.00 | 40.00 | 13.00 | 13.00 | 35.00 | 75.00 | 150.00 | 19.00 | 100.00 | 19.00 | 6.2 | 25.00 | 1/4-20 UNC |
| **lb/in** | | | | | | | | | | | | | | |
| 22.1 - 330.7 | 1.37 | 0.51 | 1.57 | 0.51 | 0.51 | 1.37 | 2.95 | 5.90 | 0.74 | 3.93 | 0.74 | 0.24 | 0.98 | 1/4-20 UNC |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 10 kg | 22.1 lb | **119904** | 1 lb | $315.00 |
| 15 kg | 33.1 lb | **119912** | 1 lb | $315.00 |
| 20 kg | 44.1 lb | **119905** | 1 lb | $315.00 |
| 30 kg | 66.1 lb | **119906** | 1 lb | $315.00 |
| 50 kg | 110.3 lb | **119908** | 1 lb | $315.00 |
| 75 kg | 165.3 lb | **119909** | 1 lb | $315.00 |
| 100 kg | 220.5 lb | **119910** | 1 lb | $315.00 |
| 150 kg | 330.7 lb | **119911** | 1 lb | $315.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
10ft (3.1 m)

**Cable Diameter:**
0.190 PVC jacket

**Max Platform Size:**
15 in x 15 in

**Cable Color Code:**
Blue +Excitation
Black –Excitation
Green +Sense
Grey –Sense
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP



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# RLPCBC-60

Stainless Steel, Hermetically Sealed, NTEP Certified1:5,000 Class III Single Cell, IP69K

## Specifications

**Full Scale Output:**
2 mv/v

**Output Resistance:**
960 (± 50) ohm

**Input Resistance:**
1,100 (± 50) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range:
14˚ F to 104˚ F (-10˚ C to 40˚ C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Hermetically sealed, IP69K

**Safe Overload:**
200% full scale

**Safe Sideload:**
100% full scale

**Rated Excitation:**
5-10 VDC

**Combined Error:**
0.020% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.196 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield
Blue +Sense
Brown –Sense

**Max Platform Size:**
24 in x 24 in

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP

## APPROVALS

FM APPROVED

NTEP



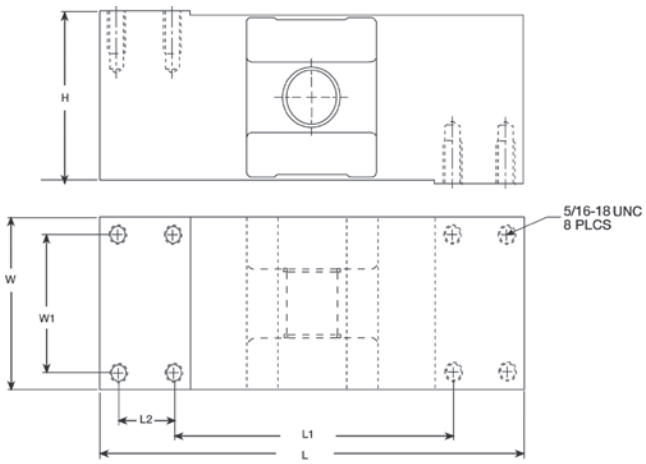

## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | L | L1 | L2 | W | W1 | H |
|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | |
| 50-1,000 | 190.5 | 107.00 | 35.00 | 73.7 | 50.00 | 73.7 |
| **lb/in** | | | | | | |
| 110.3-2,205 | 7.50 | 4.21 | 1.38 | 2.90 | 1.97 | 2.90 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 50 kg | 110.3 lb | **87022** | 12 lb | $875.00 |
| 100 kg | 220.5 lb | **87023** | 12 lb | $875.00 |
| 250 kg | 551.3 lb | **87024** | 13 lb | $875.00 |
| 500 kg | 1,102.5 lb | **87025** | 13 lb | $875.00 |
| 1,000 kg | 2,205 lb | **87026** | 15 lb | $875.00 |






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SINGLE POINT

# RL1521A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66




## APPROVALS

FM APPROVED

NTEP

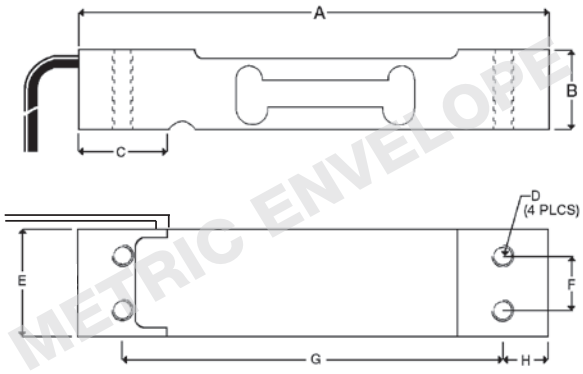
## Dimension

*Picture is a representation of actual products*

| Rated Capacity | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | |
| 3-7 | 130.0 | 22.0 | 25.0 | M6 x 1.0 | 25.4 | 15.0 | 106.0 | 12.0 |
| 10-30 | 130.0 | 22.0 | 25.0 | M6 x 1.0 | 30.0 | 15.0 | 106.0 | 12.0 |
| 35 | 130.0 | 22.0 | 25.0 | M6 x 1.0 | 40.0 | 15.0 | 106.0 | 12.0 |
| **lb/in** | | | | | | | | |
| 6.6-15.4 | 5.12 | 0.87 | 0.99 | M6 x 1.0 | 1.00 | 0.59 | 4.17 | 0.47 |
| 22.0-66.2 | 5.12 | 0.87 | 0.99 | M6 x 1.0 | 1.18 | 0.59 | 4.17 | 0.47 |
| 77.2 | 5.12 | 0.87 | 0.99 | M6 x 1.0 | 1.57 | 0.59 | 4.17 | 0.47 |

## Order Information:

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **1.50 ft Cables** | | | | |
| 3 kg | 6.6 lb | **50620** | 1 lb | $140.00 |
| 5 kg | 11 lb | **50619** | 1 lb | $140.00 |
| 7 kg | 15.4 lb | **50621** | 1 lb | $140.00 |
| 10 kg | 22 lb | **50622** | 1 lb | $140.00 |
| 15 kg | 33.1 lb | **50623** | 1 lb | $140.00 |
| 20 kg | 44.1 lb | **50624** | 1 lb | $140.00 |
| 30 kg | 66.1 lb | **50625** | 1 lb | $140.00 |
| 35 kg | 77.2 lb | **50626** | 1 lb | $140.00 |
| **10 ft Cables** | | | | |
| 3 kg | 6.6 lb | **132261** | 3 lb | $140.00 |
| 5 kg | 11 lb | **132262** | 3 lb | $140.00 |
| 7 kg | 15.4 lb | **132263** | 3 lb | $140.00 |
| 10 kg | 22 lb | **132264** | 3 lb | $140.00 |
| 15 kg | 33.1 lb | **132265** | 3 lb | $140.00 |
| 20 kg | 44.1 lb | **132266** | 3 lb | $140.00 |
| 30 kg | 66.1 lb | **132267** | 3 lb | $140.00 |
| 35 kg | 77.2 lb | **132268** | 3 lb | $140.00 |




METRIC ENVELOPE

## Interchangeable Products

VPG CELTRON®
**LPS except 3 kg** ..... —

VPG TEDEA-HUNTLEIGH®
**1022** ..... —

VPG BLH®
**C2G1** ..... —

FAIRBANKS®
**4900 Series Checkweighers** ..... —

NMB®
**C2G1** ..... —

ARTECH®
**61022** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
410 (± 15) ohm

**Material/Finish:**
Aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP66

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
2,000 megohms

**Cable Length:**
1.50 ft (0.5 m)
10 ft (3.1 m)

**Cable Diameter:**
0.14 PVC jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

**Max Platform Size:**
13.75 in x 13.75 in

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL1010

Aluminum, NTEP Certified 1:5,000 Class III Single Cell, Potted and Unpotted, IP65/IP67

## Interchangeable Products

VPG TEDEA-HUNTLEIGH®
**1010/1015**.....—

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohms, nominal

**Input Resistance:**
415 (± 15) ohm

**Material/Finish:**
Anodized aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Potted, IP67
Unpotted, IP65

**Safe Overload:**
150% at center of loading point, full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
3 kg-90 kg=0.015 in (0.4 mm)

**Cable Length:**
Potted 10 ft (3.1 m)
Unpotted 3 ft (0.9 m)

**Cable Diameter:**
0.200/PVC jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

**Max Platform Size:**
15.75 in x 15.75 in

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS



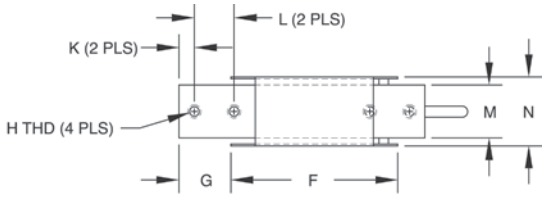

## Dimensions

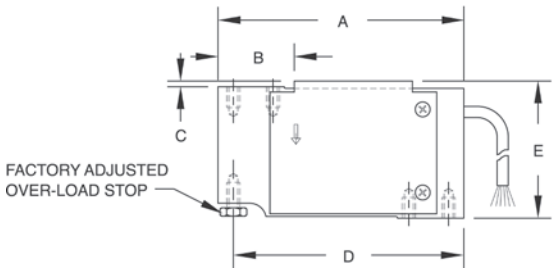
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | |
| 3-90 | 118.1 | 34.00 | 3.00 | 110.5 | 66.00 | 80.00 | 25.00 | 1/4-20 UNC x 13 DP | 7.5 | 19.1 | 25.4 | 33.5 |
| **lb/in** | | | | | | | | | | | | |
| 6.6-198.4 | 4.65 | 1.34 | 0.12 | 4.35 | 2.60 | 3.15 | 0.98 | 1/4-20 UNC x 0.50 DP | 0.30 | 0.75 | 1.00 | 1.32 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified, Potted** | | | | |
| 10 kg | 22.1 lb | **50819** | 2 lb | $195.00 |
| 15 kg | 33.1 lb | **50820** | 2 lb | $195.00 |
| 20 kg | 44.1 lb | **50821** | 2 lb | $195.00 |
| 30 kg | 66.1 lb | **50822** | 2 lb | $195.00 |
| 50 kg | 110.2 lb | **50823** | 2 lb | $195.00 |
| **Non-NTEP Certified, Potted** | | | | |
| 7 kg | 15.4 lb | **17529** | 2 lb | $195.00 |
| 10 kg | 22 lb | **17530** | 2 lb | $195.00 |
| 15 kg | 33.1 lb | **17531** | 2 lb | $195.00 |
| 20 kg | 44.1 lb | **17532** | 2 lb | $195.00 |
| 30 kg | 66.1 lb | **17533** | 2 lb | $195.00 |
| 50 kg | 110.2 lb | **17534** | 2 lb | $195.00 |
| 90 kg | 198.4 lb | **17535** | 2 lb | $195.00 |
| **Non-NTEP Certified, Unpotted** | | | | |
| 3 kg | 6.6 lb | **17527** | 1 lb | $180.00 |
| 5 kg | 11.0 lb | **17528** | 1 lb | $180.00 |






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SINGLE POINT

# RLSP4

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66




## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

HBM®
**SP4M** ..... —

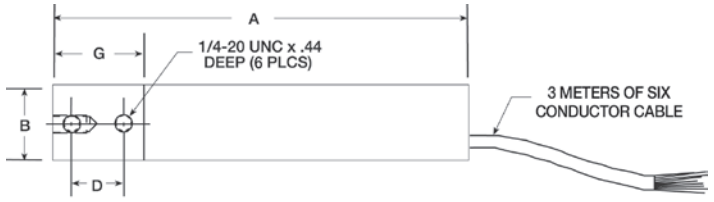
## Dimensions

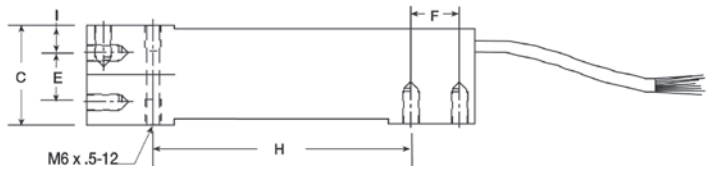
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | |
| 5-100 | 150.3 | 25.4 | 39.9 | 19.1 | 19.1 | 19.1 | 33.8 | 99.6 | 11.4 |
| **lb/in** | | | | | | | | | |
| 11.0-220.5 | 5.92 | 1.00 | 1.57 | 0.75 | 0.75 | 0.75 | 1.33 | 3.92 | 0.45 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified** | | | | |
| 7 kg | 15.4 lb | **91725** | 2 lb | $195.00 |
| 10 kg | 22.1 lb | **91726** | 2 lb | $195.00 |
| 15 kg | 33.1 lb | **91727** | 2 lb | $195.00 |
| 20 kg | 44.1 lb | **91728** | 2 lb | $195.00 |
| 30 kg | 66.2 lb | **91729** | 2 lb | $195.00 |
| 50 kg | 110.3 lb | **91730** | 2 lb | $195.00 |
| 75 kg | 165.3 lb | **91731** | 2 lb | $195.00 |
| 100 kg | 220.5 lb | **91732** | 2 lb | $195.00 |
| **Non-NTEP Certified** | | | | |
| 5 kg | 11.0 lb | **91724** | 2 lb | $195.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
350 ohm

**Material/Finish:**
Anodized aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP66

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
5 kg-100 kg=0.4 mm (0.015 in)

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.19/PVC jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Yellow Shield
Blue +Sense
Brown –Sense

**Max Platform Size:**
5 kg-10 kg (12 in x 12 in)
15 kg-30 kg (18 in x 18 in)
50 kg-100 kg (24 in x 24 in)

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP



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# RLPWM12

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL1250** .....—

VPG TEDEA-HUNTLEIGH®
**1250** .....—

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
330-450 ohm, nominal

**Input Resistance:**
300-500 ohm

**Material/Finish:**
Aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
10ft (3.1 m)

**Cable Diameter:**
0.190/PVC jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

**Warranty:**
Two-year limited warranty

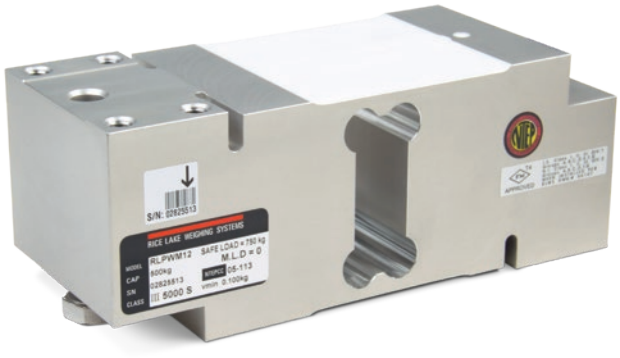
**Max Platform Size:**
30 in x 30 in

**Approvals:**
FM
NTEP

## APPROVALS

FM APPROVED

NTEP



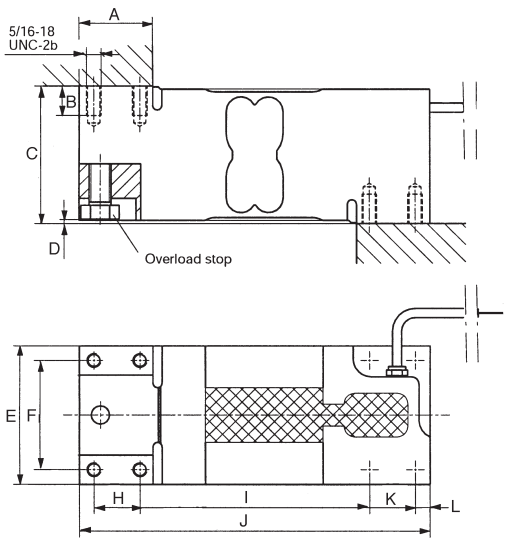
*Picture is a representation of actual product*

## Dimensions

| Rated Capacity | A | B | C | D | E | F | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| kg/mm | | | | | | | | | | | |
| 50-1,000 | 40.00 | 16.00 | 75.00 | 1.5 | 76.00 | 60.00 | 25.00 | 125.00 | 191.00 | 25.00 | 8.00 |
| lb/in | | | | | | | | | | | |
| 110.2-2,205.0 | 1.57 | 0.62 | 2.95 | 0.05 | 2.99 | 2.36 | 0.98 | 4.92 | 7.51 | 0.98 | 0.31 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 50 kg | 110.2 lb | **91674** | 6 lb | $315.00 |
| 75 kg | 165.4 lb | **91675** | 6 lb | $315.00 |
| 100 kg | 220.5 lb | **91676** | 6 lb | $315.00 |
| 150 kg | 330.7 lb | **91677** | 6 lb | $315.00 |
| 200 kg | 440.9 lb | **91678** | 6 lb | $315.00 |
| 300 kg | 661.4 lb | **91680** | 6 lb | $315.00 |
| 500 kg | 1,102.3 lb | **91681** | 6 lb | $315.00 |
| 1,000 kg | 2,205.0 lb | **91683** | 6 lb | $315.00 |






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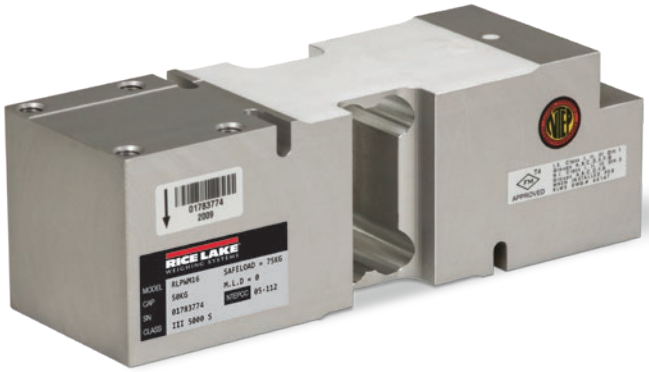


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SINGLE POINT

# RLPWM16

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67



## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

VPG TEDEA-HUNTLEIGH®

**1260** ..... —

RICE LAKE WEIGHING SYSTEMS

**RL1260** ..... —

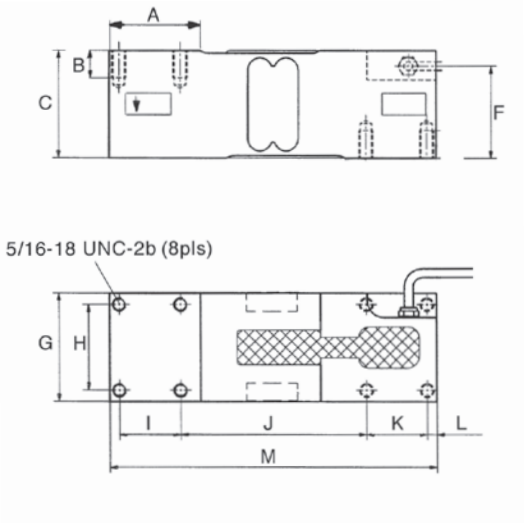
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | |
| 50-635 | 52.00 | 16.00 | 62.3 | 52.3 | 63.00 | 50.00 | 35.00 | 107.00 | 35.00 | 5.5 | 188.00 |
| **lb/in** | | | | | | | | | | | |
| 110.2-1,455.5 | 2.04 | 0.62 | 2.45 | 2.05 | 2.48 | 1.96 | 1.37 | 4.21 | 1.37 | 0.21 | 7.40 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| 50 kg | 110.2 lb | **91684** | 5 lb | $295.00 |
| 75 kg | 165.4 lb | **91686** | 5 lb | $295.00 |
| 100 kg | 220.5 lb | **91687** | 5 lb | $295.00 |
| 150 kg | 330.7 lb | **91688** | 5 lb | $295.00 |
| 200 kg | 440.9 lb | **91689** | 5 lb | $295.00 |
| 250 kg | 551.2 lb | **91690** | 5 lb | $295.00 |
| 300 kg | 661.4 lb | **91691** | 5 lb | $295.00 |
| 500 kg | 1,102.3 lb | **91692** | 5 lb | $295.00 |
| 635 kg | 1,455.5 lb | **91693** | 5 lb | $295.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
300-500 ohm

**Input Resistance:**
300-500 ohm

**Material/Finish:**
Aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
1,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.190/PVC jacket

**Max Platform Size:**
24 in x 24 in

**Deflection at Capacity**
50 kg to 635 kg < 0.6 mm

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP



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# RL1042

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RLSP4** —

VPG TEDEA-HUNTLEIGH®
**1042** —

HBM®
**SP4M** —

FLINTEC®
**PC 42** —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
415 (± 15) ohm

**Material/Finish:**
Aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP66

**Safe Overload:**
150% full scale
Over-center loading point

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Deflection at Capacity:**
1 kg-100 kg=0.015 in (0.4 mm)

**Insulation Resistance:**
2,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.200 PVC jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

**Platform Size:**
16 in x 16 in

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP
OIML (Available upon request)

## APPROVALS

FM C US APPROVED

NTEP

OIML

*Available upon request*



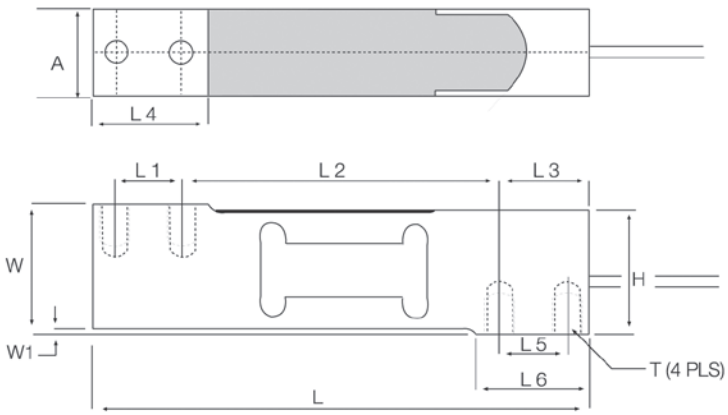
*Picture is a representation of actual product*

## Dimensions

| Rated Capacity | A | H | L | L1 | L2 | L3 | L4 | L5 | L6 | W | W1 | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | |
| 1-30 | 20.00 | 39.00 | 150.00 | 19.00 | 100.00 | 25.00 | 34.00 | 19.00 | 34.00 | 40.00 | 1.00 | 1/4-20 UNC |
| 50-100 | 25.2 | 39.00 | 150.00 | 19.00 | 100.00 | 25.00 | 34.00 | 19.00 | 34.00 | 40.00 | 1.00 | 1/4-20 UNC |
| **lb/in** | | | | | | | | | | | | |
| 2.2-66.1 | 0.787 | 1.54 | 5.91 | 0.75 | 3.937 | 0.984 | 1.339 | 0.75 | 1.339 | 1.575 | 0.040 | 1/4-20 UNC |
| 110.2-220.5 | 0.992 | 1.54 | 5.91 | 0.75 | 3.937 | 0.984 | 1.339 | 0.75 | 1.339 | 1.575 | 0.040 | 1/4-20 UNC |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 1 kg | 2.2 lb | **40955** | 1 lb | $180.00 |
| 3 kg | 6.6 lb | **40956** | 1 lb | $180.00 |
| 5 kg | 11.0 lb | **40957** | 1 lb | $180.00 |
| 10 kg | 22.0 lb | **40958** | 1 lb | $180.00 |
| 15 kg | 33.1 lb | **40959** | 1 lb | $180.00 |
| 20 kg | 44.1 lb | **40960** | 1 lb | $180.00 |
| 30 kg | 66.1 lb | **40961** | 1 lb | $180.00 |
| 50 kg | 110.2 lb | **40962** | 2 lb | $180.00 |
| 75 kg | 165.4 lb | **40963** | 2 lb | $180.00 |
| 100 kg | 220.5 lb | **40964** | 2 lb | $180.00 |






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SINGLE POINT

# RL1040

Aluminum, NTEP Certified 1:5,000 Class III Single Cell, Potted and Unpotted, IP65/IP67



## APPROVALS

cFMus APPROVED

NTEP

## Interchangeable Products

VPG CELTRON®
**LOC** ..... —

VPG TEDEA-HUNTLEIGH®
**1040** ..... —

CARDINAL
**TSP** ..... —

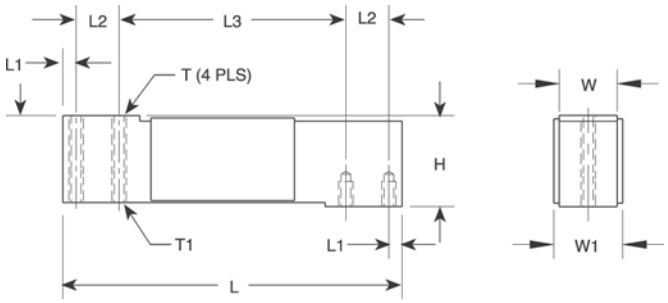
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | H | L | L1 | L2 | L3 | T | T1 | W | W1 |
|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | |
| 5-100 | 40.0 | 150.0 | 5.95 | 19.05 | 100.0 | 1/4-20 UNC x 10 DP | 1/4-28 UNF x 10 DP | 25.4 | 29.4 |
| **lb/in** | | | | | | | | | |
| 11-220.5 | 1.57 | 5.91 | 0.23 | 0.75 | 3.94 | 1/4-20 UNC x 0.39 DP | 1/4-28 UNF x 0.39 DP | 1.00 | 1.16 |

## Order Information

| Load Rating | | Part# | Est. Weight | Price |
|---|---|---|---|---|
| **NTEP Certified, Potted IP67** | | | | |
| 7 kg | 15.4 lb | **32860** | 2 lb | $195.00 |
| 10 kg | 22.1 lb | **32861** | 2 lb | $195.00 |
| 15 kg | 33.1 lb | **32862** | 2 lb | $195.00 |
| 20 kg | 44.1 lb | **32863** | 2 lb | $195.00 |
| 30 kg | 66.1 lb | **32864** | 2 lb | $195.00 |
| 50 kg | 110.2 lb | **32865** | 2 lb | $195.00 |
| 100 kg | 220.5 lb | **32866** | 2 lb | $195.00 |
| **NTEP Certified, Unpotted IP65** | | | | |
| 5 kg | 11.0 lb | **32859** | 2 lb | $190.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
415 (± 5) ohm

**Material/Finish:**
Anodized aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Potted, IP67
Unpotted, IP65

**Safe Overload:**
200% at center loading point, full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
2,000 megohms

**Deflection at Capacity:**
3 kg-100 kg=0.4 mm (0.015 in)

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.20/PVC jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Blue +Sense
Brown –Sense
Red +Signal
White –Signal

**Max Platform Size:**
15.75 in x 15.75 in

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL1140

Stainless Steel, Environmentally Sealed, Potted IP67

## Interchangeable Products

VPG TEDEA-HUNTLEIGH®

**1140** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm, nominal

**Input Resistance:**
415 (± 15) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
200% at center loading point, full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
2,000 megohms

**Deflection at Capacity:**
15 kg-150 kg=0.4 mm (0.015 in)

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.20/PVC jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

**Max Platform Size:**
15.75 in x 15.75 in

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus




## APPROVALS

c FM us
APPROVED

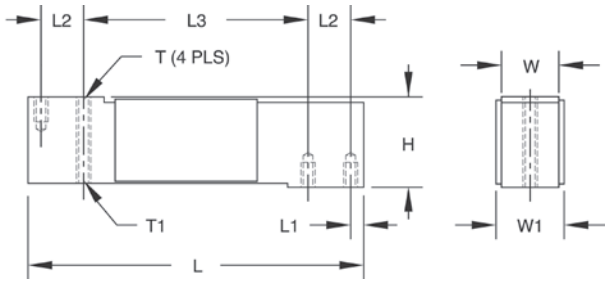
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | H | L | L1 | L2 | L3 | T | T1 | W | W1 |
|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | |
| 15-150 | 40.00 | 150.00 | 5.95 | 19.05 | 100.00 | 1/4-20 UNC x 10 DP | 1/4-28 UNF x 10 DP | 25.4 | 29.4 |
| **lb/in** | | | | | | | | | |
| 33.1-330.7 | 1.57 | 5.91 | 0.23 | 0.75 | 3.94 | 1/4-20 UNC x 0.39 DP | 1/4-28 UNF x 0.39 DP | 1.00 | 1.16 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 15 kg | 33.1 lb | **17544** | 3 lb | $320.00 |
| 30 kg | 66.1 lb | **17545** | 3 lb | $320.00 |
| 50 kg | 110.2 lb | **17546** | 3 lb | $320.00 |
| 75 kg | 165.4 lb | **17547** | 3 lb | $320.00 |
| 100 kg | 220.5 lb | **17548** | 3 lb | $320.00 |
| 150 kg | 330.7 lb | **36467** | 3 lb | $320.00 |






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SINGLE POINT

# RL1380

Stainless Steel, Environmentally Sealed, NTEP Certified 1:3,000 Class III Single Cell, IP67




## APPROVALS

FM APPROVED

NTEP

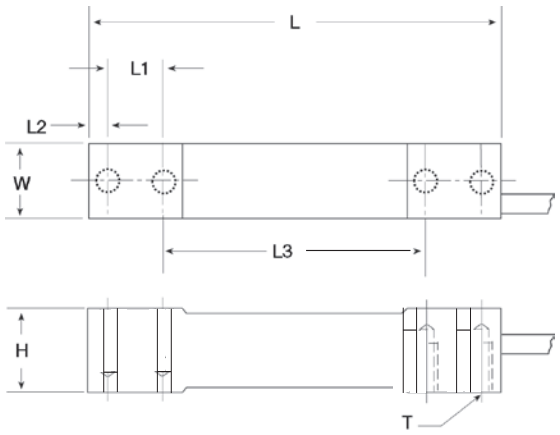
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | W | L | L1 | L2 | L3 | T | H |
|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | |
| 7-15 | 19.1 | 139.7 | 19.1 | 6.4 | 88.9 | 1/4-20 UNC | 30.2 |
| 30-60 | 23.9 | 139.7 | 19.1 | 6.4 | 88.9 | 1/4-20 UNC | 30.2 |
| **lb/in** | | | | | | | |
| 15.4-33.1 | 0.75 | 5.50 | 0.75 | 0.25 | 3.50 | 1/4-20 UNC | 1.19 |
| 66.1-132.3 | 0.94 | 5.50 | 0.75 | 0.25 | 3.50 | 1/4-20 UNC | 1.19 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 7 kg | 15.4 lb | **30783** | 2 lb | $310.00 |
| 10 kg | 22.0 lb | **30782** | 2 lb | $310.00 |
| 15 kg | 33.1 lb | **30781** | 2 lb | $310.00 |
| 30 kg | 66.1 lb | **30780** | 2 lb | $310.00 |
| 60 kg | 132.3 lb | **30779** | 2 lb | $310.00 |




## Interchangeable Products

HBM®

**PWS**.....—

## Specifications

**Full Scale Output:**
2.0mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
350 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0° F to 150° F (-18° C to 65° C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.03% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
10ft (3.1 m)

**Cable Diameter:**
0.190 polyurethane jacket

**Deflection:**
<0.4mm FS

**Max Platform Size:**
15.75in x 15.75in

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP



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# RL1385

Stainless Steel, Environmentally Sealed, NTEP Certified 1:4,500 Class III Single Cell, IP67

## Interchangeable Products

FLINTEC®
**PC1** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
330 ± 25 ohm

**Input Resistance:**
390 ± 20 ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
200% full scale

**Rated Excitation:**
5 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.196 polyurethane jacket

**Max Platform Size:**
18 in x 18 in

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

**Warranty:**
Two-year limited warranty

**Approvals:**
FM
NTEP

## APPROVALS

FM APPROVED



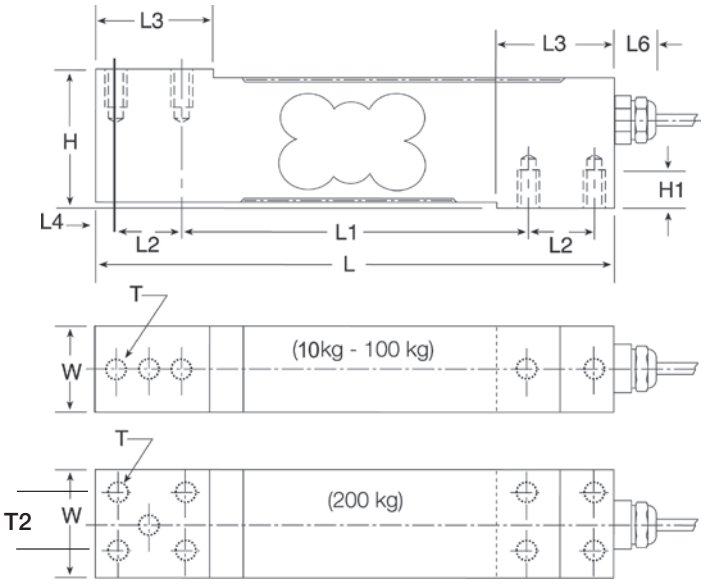

## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | H | H1 | L | L1 | L2 | L3 | L4 | L6 | W | T | T2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | |
| 10-100 | 40.00 | 10.00 | 150.00 | 100.00 | 19.00 | 32.00 | 6.00 | 20.00 | 25.4 | 1/4-20 UNC x 19.1 DP | N/A |
| 200 | 40.00 | 10.00 | 150.00 | 100.00 | 19.00 | 32.00 | 6.00 | 20.00 | 38.1 | 1/4-20 UNC x 19.1 DP | 25.4 |
| **lb/in** | | | | | | | | | | | |
| 22.0-220.5 | 1.57 | 0.40 | 5.90 | 3.93 | 0.75 | 1.26 | 0.24 | 0.79 | 1.00 | 1/4-20 UNC x 0.75 DP | N/A |
| 441.0 | 1.57 | 0.40 | 5.90 | 3.93 | 0.75 | 1.26 | 0.24 | 0.79 | 1.50 | 1/4-20 UNC x 0.75 DP | 1.00 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 10 kg | 22.0 lb | **41405** | 3 lb | $310.00 |
| 15 kg | 33.1 lb | **41233** | 3 lb | $310.00 |
| 30 kg | 66.1 lb | **41234** | 3 lb | $310.00 |
| 50 kg | 110.2 lb | **41235** | 3 lb | $310.00 |
| 75 kg | 165.4 lb | **41236** | 3 lb | $310.00 |
| **Non-NTEP Certified** | | | | |
| 100 kg | 220.5 lb | **41237** | 3 lb | $310.00 |
| 200 kg | 441.0 lb | **41406** | 4 lb | $450.00 |










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SINGLE POINT

# RL1260

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67



## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RLPWM16** ..... —

VPG TEDEA-HUNTLEIGH®
**1260** ..... —

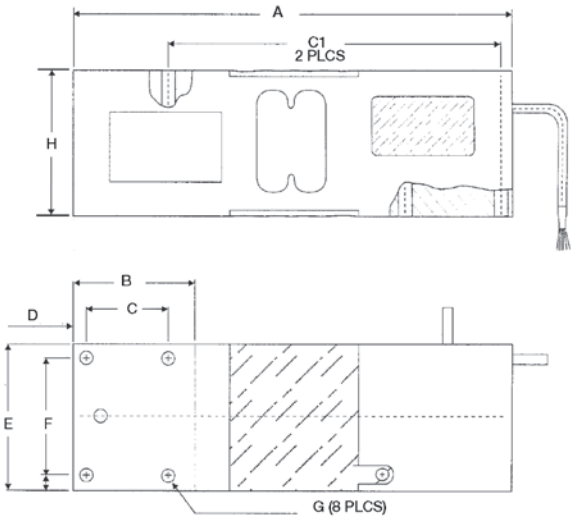
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | C1 | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | |
| 50-635 | 188.00 | 52.00 | 35.00 | 142.00 | 5.5 | 63.5 | 50.00 | 5/16-18 UNC | 62.3 |
| **lb/in** | | | | | | | | | |
| 110.2-1,400.2 | 7.40 | 2.05 | 1.38 | 5.59 | 0.22 | 2.49 | 1.97 | 5/16-18 UNC | 2.45 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50 kg | 110.2 lb | **41020** | 5 lb | $310.00 |
| 75 kg | 165.4 lb | **41021** | 5 lb | $310.00 |
| 100 kg | 220.5 lb | **41022** | 5 lb | $310.00 |
| 150 kg | 330.7 lb | **158469** | 5 lb | $310.00 |
| 200 kg | 440.9 lb | **41023** | 5 lb | $310.00 |
| 250 kg | 551.2 lb | **41024** | 5 lb | $310.00 |
| 300 kg | 661.4 lb | **41025** | 5 lb | $310.00 |
| 500 kg | 1,102.3 lb | **41026** | 5 lb | $310.00 |
| 635 kg | 1,400.2 lb | **41027** | 5 lb | $310.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
415 (± 15) ohm

**Material/Finish:**
Anodized aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% of full scale at center loading point

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.220 polyurethane jacket

**Max Platform Size:**
24 in x 24 in

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL260FD

Fluid Damped, Stainless Steel, Environmentally Sealed, NTEP Certified Single Cell 1:3,000, IP68

## Interchangeable Products

VPG TEDEA-HUNTLEIGH®

**240** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Stainless Steel

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0° F to 150° F (-18° C to 65° C)

**Seal Type:**
Environmentally sealed, IP68

**Safe Overload:**
200% of full scale

**Rated Excitation:**
5-10 VDC

**Combined Error:**
0.017% full scale

**Insulation Resistance:**
5,000> megohms

**Cable Length:**
5 m (16.4 ft)

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Yellow -Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP
cFMus

## APPROVALS

FM APPROVED



Protective Cover



Breathing Tube

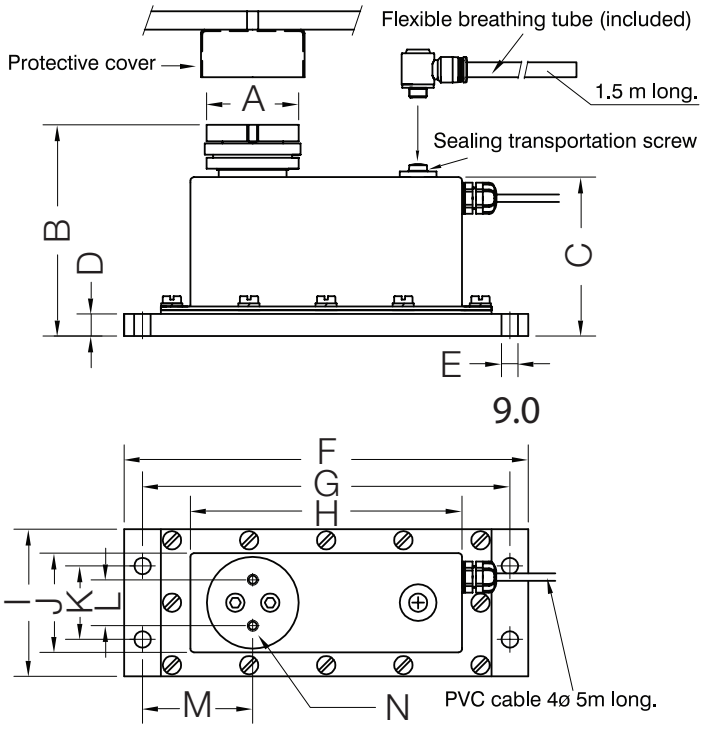
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| kg/mm | | | | | | | | | | | | | | |
| 2-50 | 50 dia | 115.0 | 86.5 | 12.0 | 9.0 | 220.0 | 200.0 | 148.0 | 80.0 | 54.0 | 40.0 | 25.0 | 60.0 | 1/4-20 UNC |
| lb/in | | | | | | | | | | | | | | |
| 4.4-110.2 | 1.97 dia | 4.53 | 3.41 | 0.48 | 0.35 | 8.66 | 7.87 | 5.83 | 3.15 | 2.13 | 1.57 | 0.98 | 2.36 | 1/4-20 UNC |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 2 kg | 4.4 lb | **194928** | 8 lb | $695.00 |
| 3 kg | 6.6 lb | **199001** | 8 lb | $695.00 |
| 5 kg | 11.0 lb | **194929** | 8 lb | $695.00 |
| 7 kg | 15.4 lb | **194930** | 8 lb | $695.00 |
| 10 kg | 22.0 lb | **194932** | 8 lb | $695.00 |
| 15 kg | 33.1 lb | **194933** | 8 lb | $695.00 |
| 20 kg | 44.1 lb | **194934** | 8 lb | $695.00 |
| 30 kg | 66.1 lb | **194935** | 8 lb | $695.00 |
| 50 kg | 110.2 lb | **194936** | 16 lb | $695.00 |






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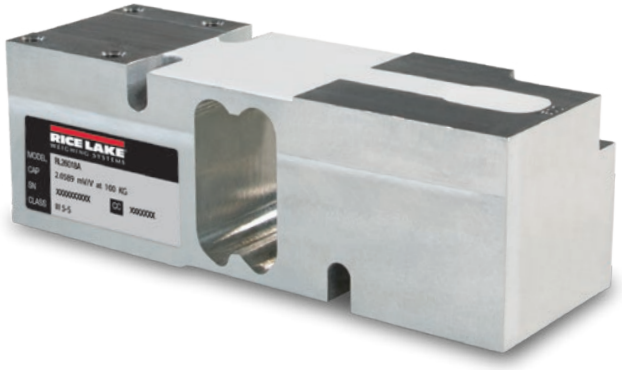


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SINGLE POINT

# RL26018A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67




## APPROVALS

FM APPROVED

NTEP

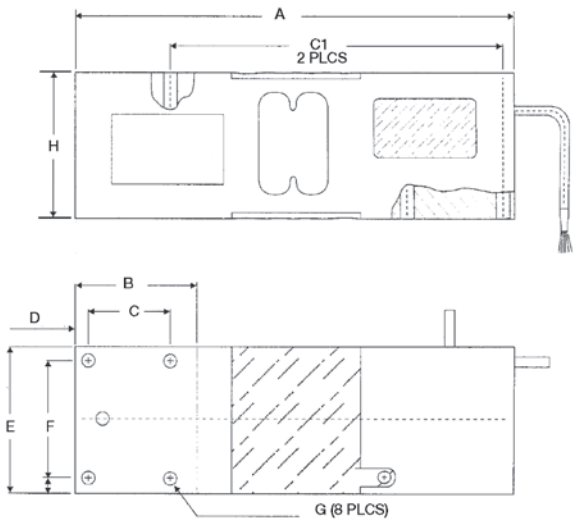
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | C1 | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | |
| 50-635 | 188.00 | 52.00 | 35.00 | 142.00 | 5.5 | 63.5 | 50.00 | 5/16-18 UNC | 62.3 |
| **lb/in** | | | | | | | | | |
| 110.2-1,400.0 | 7.40 | 2.05 | 1.38 | 5.59 | 0.22 | 2.49 | 1.97 | 5/16-18 UNC | 2.45 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50 kg | 110.2 lb | **188682** | 5 lb | $275.00 |
| 75 kg | 165.3 lb | **188683** | 5 lb | $275.00 |
| 100 kg | 220.5 lb | **188684** | 5 lb | $275.00 |
| 150 kg | 330.7 lb | **188685** | 5 lb | $275.00 |
| 200 kg | 440.9 lb | **188686** | 5 lb | $275.00 |
| 250 kg | 551.2 lb | **188687** | 5 lb | $275.00 |
| 300 kg | 661.4 lb | **188688** | 5 lb | $275.00 |
| 500 kg | 1,102.3 lb | **188689** | 5 lb | $275.00 |
| 635 kg | 1,400.0 lb | **188690** | 5 lb | $275.00 |




## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL1260** ..... —

RICE LAKE WEIGHING SYSTEMS
**RLPWM16** ..... —

VPG TEDEA-HUNTLEIGH®
**1260** ..... —

## Specifications

**Full Scale Output:**
2.0 mV/V nominal

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
415 (± 15) ohm

**Material/Finish:**
Anodized aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0° F to 150° F (-18° C to 65° C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% of full scale

**Rated Excitation:**
5-10 VDC (15 VDC Max)

**Insulation Resistance:**
>5,000 megohms

**Combined Error:**
0.02% full scale

**Deflection:**
0.3 mm - 0.5 mm

**Cable Length:**
10 ft (3.1 m)

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL1250

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, Potted, IP67

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RLPWM12** ..... —

VPG TEDEA-HUNTLEIGH®
**1250** ..... —

FLINTEC®
**PCB*** ..... —

**Stainless steel, hermetically sealed*

## Specifications

**Full Scale Output:**
2.0 mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
415 (± 15) ohm

**Material/Finish:**
Anodized aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% of full scale at center loading point

**Rated Excitation:**
5-10 VAC/DC (15 V maximum)

**Combined Error:**
.02% full scale

**Insulation Resistance:**
5,000 megohms

**Deflection at Capacity:**
50 kg-1,000 kg=0.4 mm (0.015 in)

**Cable Length:**
10 ft (3.1 m)

**Cable Diameter:**
0.220 polyurethane jacket

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

**Max Platform Size:**
24 in x 24 in

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS

FM C US APPROVED

NTEP



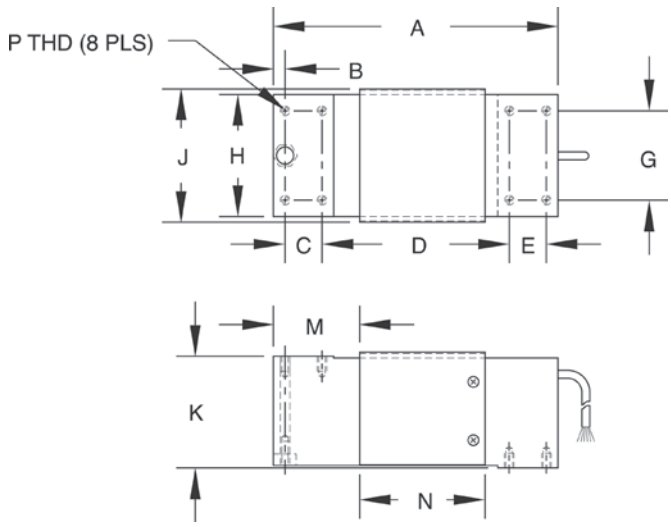
*Picture is a representation of actual product*

## Dimensions

| Rated Capacity | A | B | C | D | E | G | H | J | K | M | N | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | |
| 50-1,000 | 191.00 | 8.0 | 25.00 | 125.00 | 25.00 | 60.00 | 75.00 | 82.00 | 75.00 | 57.5 | 85.00 | 5/16-18 UNC x 15 DP |
| **lb/in** | | | | | | | | | | | | |
| 110.2-2,204.6 | 7.52 | 0.31 | 0.98 | 4.92 | 0.98 | 2.36 | 2.95 | 3.23 | 2.95 | 2.26 | 3.35 | 5/16-18 UNC x 0.59 DP |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50 kg | 110.2 lb | **32849** | 7 lb | $315.00 |
| 75 kg | 165.4 lb | **32856** | 7 lb | $315.00 |
| 100 kg | 220.5 lb | **32855** | 7 lb | $315.00 |
| 150 kg | 330.7 lb | **32854** | 7 lb | $315.00 |
| 200 kg | 440.9 lb | **32853** | 7 lb | $315.00 |
| 250 kg | 551.2 lb | **32852** | 7 lb | $315.00 |
| 300 kg | 661.4 lb | **32851** | 7 lb | $315.00 |
| 500 kg | 1,102.3 lb | **32850** | 7 lb | $315.00 |
| 635 kg | 1,400 lb | **32857** | 7 lb | $315.00 |
| 1,000 kg | 2,204.6 lb | **32858** | 7 lb | $315.00 |






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SINGLE POINT

# RL1218A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67



## APPROVALS

FM APPROVED

NTEP

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL1250** — 

RICE LAKE WEIGHING SYSTEMS
**RLPWM12** — 

VPG TEDEA-HUNTLEIGH®
**1250** — 

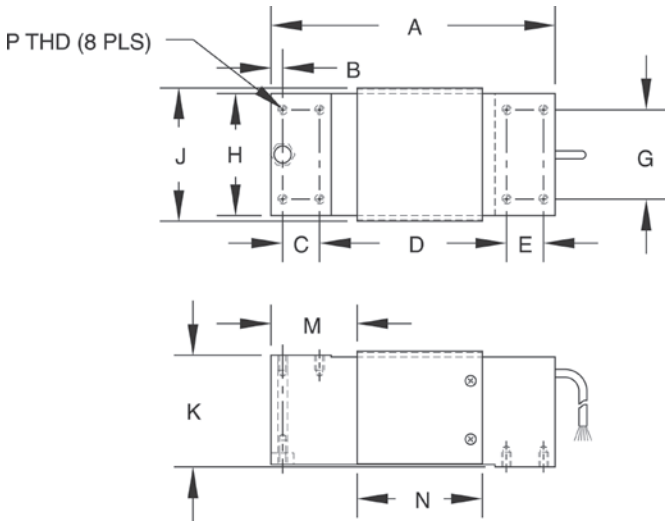
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | G | H | J | K | M | N | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | | | | | |
| 50-1,000 | 191.00 | 8.0 | 25.00 | 125.00 | 25.00 | 60.00 | 75.00 | 82.00 | 75.00 | 57.5 | 85.00 | 5/16-18 UNC x 15 DP |
| **lb/in** | | | | | | | | | | | | |
| 110.2-2,205 | 7.52 | 0.31 | 0.98 | 4.92 | 0.98 | 2.36 | 2.95 | 3.23 | 2.95 | 2.26 | 3.35 | 5/16-18 UNC x 0.59 DP |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50 kg | 110.2 lb | **191096** | 5 lb | $310.00 |
| 75 kg | 165.4 lb | **191097** | 5 lb | $310.00 |
| 100 kg | 220.5 lb | **191098** | 5 lb | $310.00 |
| 150 kg | 330.7 lb | **191099** | 5 lb | $310.00 |
| 200 kg | 440.9 lb | **191100** | 5 lb | $310.00 |
| 250 kg | 551.2 lb | **191101** | 5 lb | $310.00 |
| 300 kg | 661.4 lb | **191102** | 5 lb | $310.00 |
| 500 kg | 1,102.3 lb | **191103** | 5 lb | $310.00 |
| 635 kg | 1,400 lb | **191104** | 5 lb | $310.00 |
| 1,000 kg | 2,205 lb | **191105** | 5 lb | $310.00 |




## Specifications

**Full Scale Output:**
2.0 mV/V nominal

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
415 (± 15) ohm

**Material/Finish:**
Anodized aluminum

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)
Operating range
0° F to 150° F (-18° C to 65° C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 VDC Max)

**Insulation Resistance:**
>5,000 megohms

**Deflection:**
0.4mm

**Max Platform Size**
600 mm x 600 mm

**Cable Length:**
10 ft (3.1 m)

**Cable Color Code:**
Green +Excitation
Black–Excitation
Red+Signal
White–Signal
Blue +Sense
Yellow –Sense

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP



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# RL42018A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66

## Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
**RL1042** —

RICE LAKE WEIGHING SYSTEMS
**RLSP4** —

VPG TEDEA-HUNTLEIGH®
**1042** —

HBM®
**SP4M*** —

**Color code is different*

## Specifications

**Full Scale Output:**
2.0 mV/V ±10%

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
400 (± 20) ohm

**Material/Finish:**
Aluminum

**Temperature:**
Compensated range
14°F to 104°F/-10°C to 40°C
Operating range
0° F to 150° F (-18° C to 65° C)

**Seal Type:**
Environmentally sealed, IP66

**Safe Overload:**
150% of full scale at center loading point

**Rated Excitation:**
10 VDC

**Combined Error:**
0.02% full scale

**Insulation Resistance:**
>5,000 megohms

**Deflection:**
0.3 mm - 0.5 mm

**Max Platform Size**
400 mm x 400 mm

**Cable Length:**
10 ft (3.1 m)

**Cable Color Code:**
Green+Excitation
Black –Excitation
Red+Signal
White –Signal
Blue +Sense
Yellow –Sense

**Platform Size:**
15.75 in x 15.75 in max

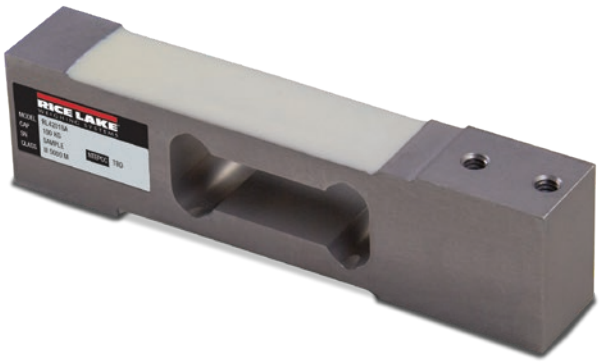
**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## APPROVALS

FM APPROVED

NTEP



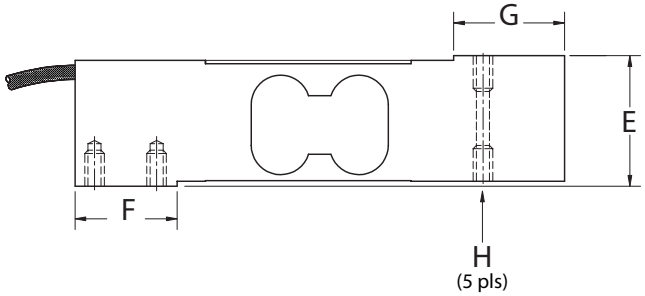

## Dimensions

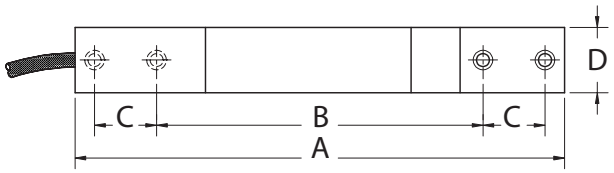
*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| **kg/mm** | | | | | | | | |
| 3-100 | 150.0 | 100.0 | 19.0 | 25.4 | 40.0 | 31.2 | 34 | 1/4-20 UNC |
| **lb/in** | | | | | | | | |
| 6.6-220.5 | 5.91 | 3.94 | 0.75 | 1.00 | 1.58 | 1.23 | 1.34 | 1/4-20 UNC |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 3 kg | 6.6 lb | **188672** | 2 lb | $180.00 |
| 5kg | 11.0 lb | **188673** | 2 lb | $180.00 |
| 7 kg | 15.4 lb | **188674** | 2 lb | $180.00 |
| 10 kg | 22.0 lb | **188675** | 2 lb | $180.00 |
| 15 kg | 33.1 lb | **188676** | 2 lb | $180.00 |
| 20 kg | 44.1 lb | **188677** | 2 lb | $180.00 |
| 30 kg | 66.1 lb | **188678** | 2 lb | $180.00 |
| 50 kg | 110.2 lb | **188679** | 2 lb | $180.00 |
| 75 kg | 165.3 lb | **188680** | 2 lb | $180.00 |
| 100 kg | 220.5 lb | **188681** | 2 lb | $180.00 |







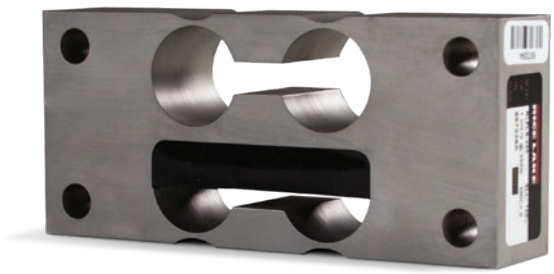

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SINGLE POINT

# RLFLS

Stainless Steel, Environmentally Sealed, Potted, IP67

**DISCONTINUED**
**LIMITED STOCK AVAILABLE**



## Interchangeable Products

AVERY WEIGH-TRONIX®
**FLS**.....—

## Specifications

**Full Scale Output:**
1.0 (± 10%) mV/V

**Output Resistance:**
350 (± 3) ohm

**Input Resistance:**
385 (± 10) ohm

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range:
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-15 VDC

**Hysteresis:**
0.02% full scale

**Non-Linearity:**
0.02% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
10 ft (3.1 m)

**Cable Color Code:**
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

**Warranty:**
Two-year limited warranty

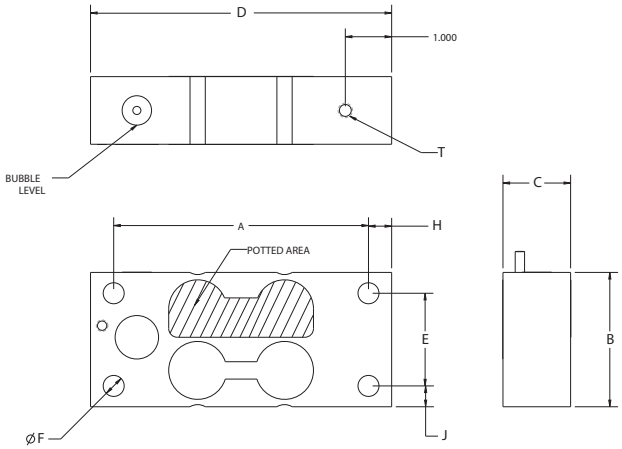
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | A | B | C | D | E | F | H | J | T |
|---|---|---|---|---|---|---|---|---|---|
| **lb/in** | | | | | | | | | |
| 50-75 | 5.50 | 2.90 | 0.735 | 6.50 | 2.00 | 0.453 | 0.50 | 0.45 | 5/16-18 UNC x 0.50 |
| **kg/mm** | | | | | | | | | |
| 22.7-34.0 | 139.7 | 73.7 | 18.7 | 165.1 | 50.8 | 11.5 | 12.7 | 11.43 | 5/16-18 UNC x 0.50 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 50 lb | 22.7 kg | **125612** | 3 lb | $595.00 |
| 75 lb | 34.0 kg | **125613** | 3 lb | $595.00 |





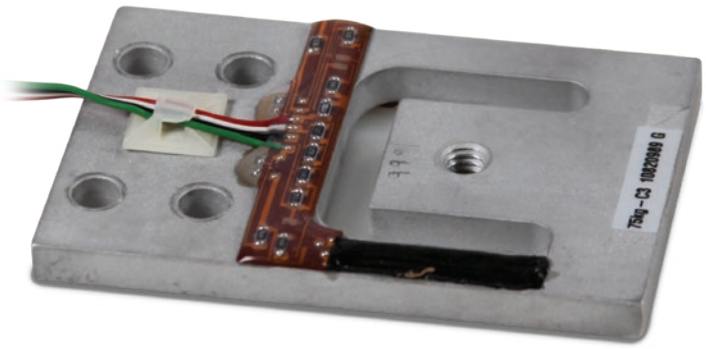

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PLANAR BEAM

# RLBLP

Aluminum, Environmentally Sealed, IP65



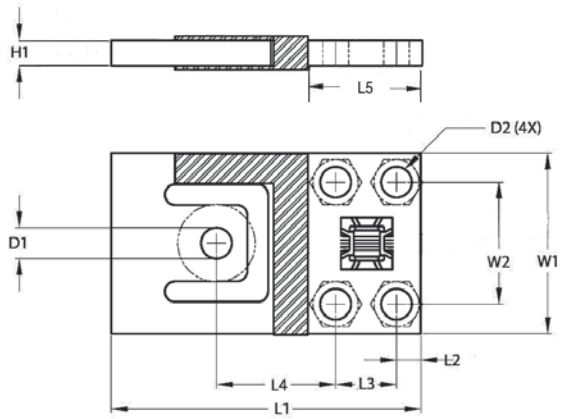
## Dimensions

*Picture is a representation of actual product*

| Rated Capacity | L1 | L2 | L3 | L4 | L5 | W1 | W2 | H1 | D1 | D2 |
|---|---|---|---|---|---|---|---|---|---|---|
| kg/mm | | | | | | | | | | |
| 15 | 70.00 | 4.9 | 14.00 | 28.00 | 23.7 | 39.00 | 27.8 | 4.1 | 7.6 | 5.1 |
| 37.5 | 76.2 | 6.00 | 15.00 | 29.3 | 27.00 | 44.5 | 30.00 | 4.8 | 7.6 | 6.6 |
| 75 | 84.4 | 6.4 | 15.00 | 34.00 | 27.7 | 54.8 | 30.00 | 6.4 | 7.6 | 6.6 |
| 150 | 107.3 | 7.8 | 22.9 | 45.9 | 38.4 | 69.9 | 44.5 | 7.9 | 9.1 | 8.1 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 15 kg | 33.0 lb | **100272** | 1 lb | $82.00 |
| 37.5 kg | 82.6 lb | **104645** | 1 lb | $87.00 |
| 75 kg | 165.3 lb | **100273** | 1 lb | $92.00 |
| 150 kg | 330.7 lb | **100274** | 1 lb | $97.00 |




## Interchangeable Products

FLINTEC™

**PB** ..... —

## Specifications

**Full Scale Output:**
1 mV/V

**Output Resistance:**
1,000 (± 10) ohm

**Input Resistance:**
1,180 (± 50) ohm

**Material/Finish:**
Aluminum

**Temperature:**
Operating range:
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP65

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-15 VDC

**Combined Error:**
0.05% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
15 kg = 1.0m
37.5kg, 75kg, 150kg = 1.5m

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty



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# RL2010

Stainless Steel, Environmentally Sealed, IP67

## Specifications

**Full Scale Output:**
3.0 (± 0.1%) mV/V

**Bridge Resistance:**
350 ohm, nominal

**Material/Finish:**
Stainless steel

**Temperature:**
Operating range
0°F to 150°F (-18°C to 65°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% full scale

**Rated Excitation:**
5-10 VDC (15 V maximum)

**Linearity:**
0.05% full scale

**Repeatability:**
0.03% full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
40 ft polyurethane jacket with connection

**Cable Diameter:**
0.25 in

**Cable Color Code:**
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
FM

## APPROVALS

FM APPROVED



*Picture is a representation of actual product*

## Dimensions

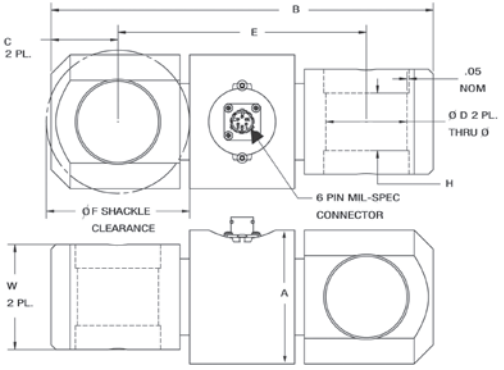
| Rated Capacity | A | B | C | ØD | E | ØF | W | H |
|---|---|---|---|---|---|---|---|---|
| lb/in | | | | | | | | |
| 5,000-10,000 | 2.00 | 6.50 | 1.00 | 1.05 | 4.50 | 2.38 | 1.37 | 0.75 |
| 25,000 | 2.75 | 8.00 | 1.38 | 1.55 | 5.25 | 2.88 | 2.00 | 1.00 |
| 50,000-75,000 | 3.25 | 14.00 | 2.50 | 2.31 | 9.00 | 5.00 | 3.00 | 1.75 |
| 100,000-150,000 | 4.00 | 16.00 | 2.88 | 2.88 | 10.25 | 6.25 | 4.00 | 2.00 |
| 200,000 | 6.00 | 18.00 | 3.25 | 3.38 | 11.50 | 6.50 | 4.75 | 2.38 |
| 250,000 | 6.50 | 20.00 | 3.75 | 3.88 | 12.50 | 7.50 | 5.00 | 2.75 |
| 300,000-500,000 | 7.50 | 24.00 | 4.50 | 4.31 | 15.00 | 9.50 | 5.40 | 3.00 |

## Order Information

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| 5,000 lb | 2,268.0 kg | **117731** | 5 lb | $1,215.00 |
| 10,000 lb | 4,535.9 kg | **117732** | 5 lb | $1,215.00 |
| 25,000 lb | 11,334.8 kg | **117733** | 8 lb | $1,420.00 |
| 50,000 lb | 22,679.6 kg | **117735** | 34 lb | $2,540.00 |
| 75,000 lb | 34,019.4 kg | **117736** | 34 lb | $2,540.00 |
| 100,000 lb | 45,359.4 kg | **117737** | 56 lb | $2,740.00 |
| 150,000 lb | 68,038.9 kg | **117738** | 56 lb | $2,740.00 |
| 200,000 lb | 90,718.5 kg | **117739** | 95 lb | $5,045.00 |
| 250,000 lb | 113,398.0 kg | **117740** | 117 lb | $5,445.00 |
| 300,000 lb | 136,077.7 kg | **117741** | 191 lb | $7,730.00 |
| 500,000 lb | 226,796.2 kg | **117742** | 191 lb | $7,730.00 |
| **Replacement Parts** | | | | |
| 40 ft load cell cable | | **187132** | | $150.00 |

## Shackles sold in pairs

| Load Rating | Part # | Price |
|---|---|---|
| 5,000 lb-10,000 lb | **83450** | $200.00 |
| 25,000 lb | **83451** | $625.00 |
| 50,000 lb | **83452** | $925.00 |
| 75,000 lb | **119279** | $1,595.00 |
| 100,000 lb | **83453** | $2,925.00 |
| 150,000 lb-200,000 lb | **83454** | Consult |
| 250,000 lb | **83455** | Consult |
| 300,000 lb | **83456** | Consult |




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www.ricelake.com | Phone: 800-472-6703

# MSI Load Pin Sensors

Custom Outputs Available



## Standard Features

- Internally gauged load pin
- Idler sheave or dead end pin preferred location
- Minimum 5:1 safety factor
- 17-4 stainless steel construction
- ±1% to 3% accuracy of hoist capacity
- -40°F to 140°F standard operating temperature (other temperature compensated ranges available)

A key component for MSI's integrated overhead weighing solutions is the Load Pin Sensor. Typically designed and manufactured specifically to each integrated solution, the MSI load pin is strictly industrial grade. Each load pin design is precision machined from 17-4 stainless steel for safety, strength and corrosion resistance.

Each strain gauge location is precisely calculated and correctly placed in the optimum concentrated stress area of each installation. This MSI applied engineering process ensures the most efficient and accurate performance for each specific installation.

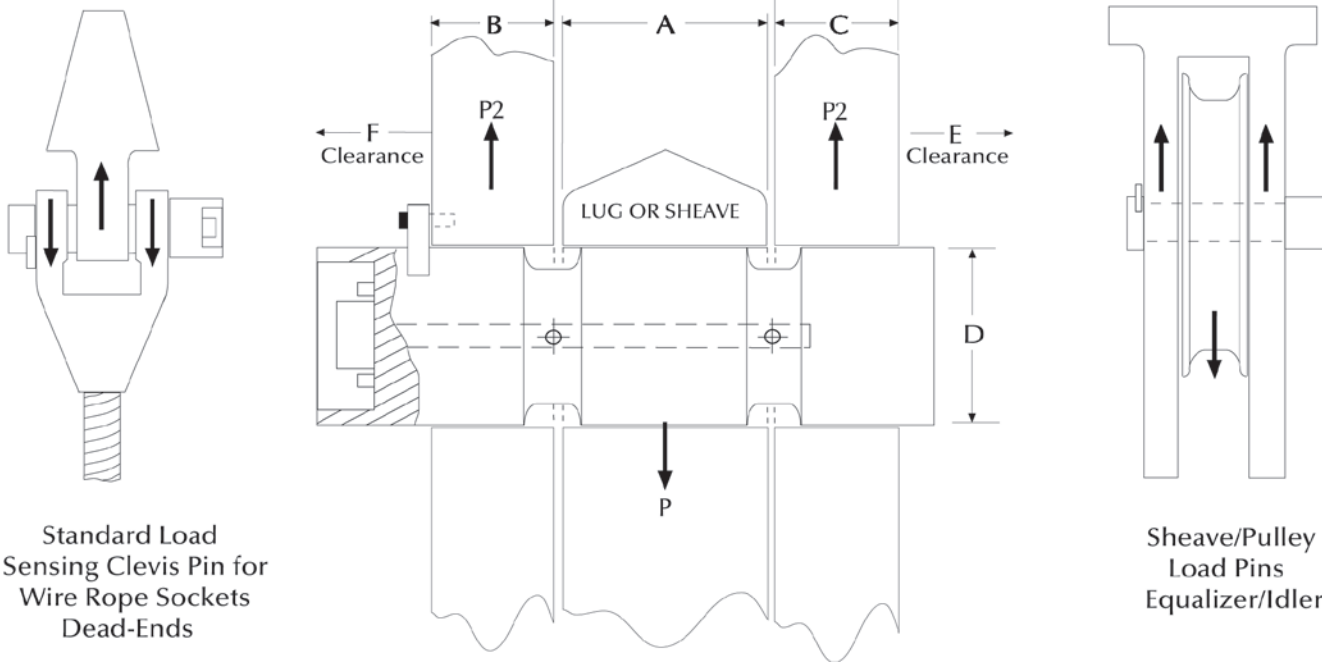
MSI load pin designs apply only internally mounted strain gauges for complete protection from the outside environment.

**To receive a quotation for a load pin sensor to meet your application requirements, complete the load pin questionnaire also on the next page or online at www.ricelake.com or contact an MSI overhead weighing specialist for further application assistance.**



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# MSI Load Pin Questionnaire




## Load Pin Data

A=Width _____ Inch
B=Width _____ Inch
C=Width _____ Inch
D=Pin Diameter _____ Inch
E=Clearance _____ Inch
F=Clearance _____ Inch
G=Width _____ Inch
Lube Port ❑No ❑Yes _____ # of exits
Hoist Capacity _____ Tons
Parts of Wire Rope _____
Sensor Capacity _____ Tons
Factor of Safety ❑3:1 ❑5:1 ❑7:1 ❑10:1
Application _____
Accuracy Requirement _____
Temperature Requirement _____
Required Output _____
Material Testing Requirement _____
Load Vector Orientation/Alignment ❑← ❑→ ❑↓ ❑↑
Name _____
Company _____
Phone _____

Note: Minimum clearance between
"A" and "G" = 0.0625 inch.

## Cable Connections

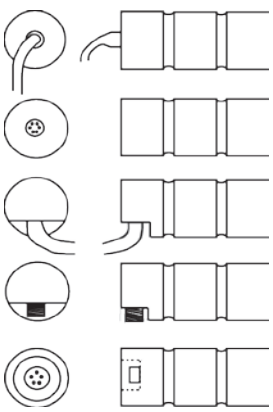
End-Mounted Cable

End-Mounted Connector (standard)

Side-Mounted Cable

Side-Mounted Connector

Recessed Connector



Sensor's Cable Length _____ Feet

Comments _____

_____

RICE LAKE WEIGHING SYSTEMS

230 W. Coleman St. • Rice Lake, WI 54868 • USA
TEL: 800-874-4320 • FAX: 206-244-8470 • **www.ricelake.com/msi**

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# MSI Tension Link Load Cell




## Specifications

**Input Resistance:**
1,500 ohm

**Output Resistance:**
2,000 ohm

**Full Scale Output:**
0.8mV/V

**Connector Pin Out:**
A: EX+
B: Sig +
C: Sig –
D: EX-

**Accuracy:**
0.1% sensory accuracy

**Material:**
4340 steel

## Standard Features

- 4340 Steel construction
- Mil Spec connector
- 7:1 Safety factor

## Additional Options

**(Contact MSI for application consultation)**

- Crosby® top and bottom shackles

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **181907** | 2K 7200 Style Load Cell Only | Consult |
| **181908** | 5K 7200 Style Load Cell Only | Consult |
| **181909** | 10K 7200 Style Load Cell Only | Consult |
| **178093** | 25K 7200 Style Load Cell Only | Consult |
| **178094** | 50K 7200 Style Load Cell Only | Consult |
| **181910** | 100K 7200 Style Load Cell Only | Consult |
| **134505** | Mating Cable Assembly, 10 ft | $165.00 |

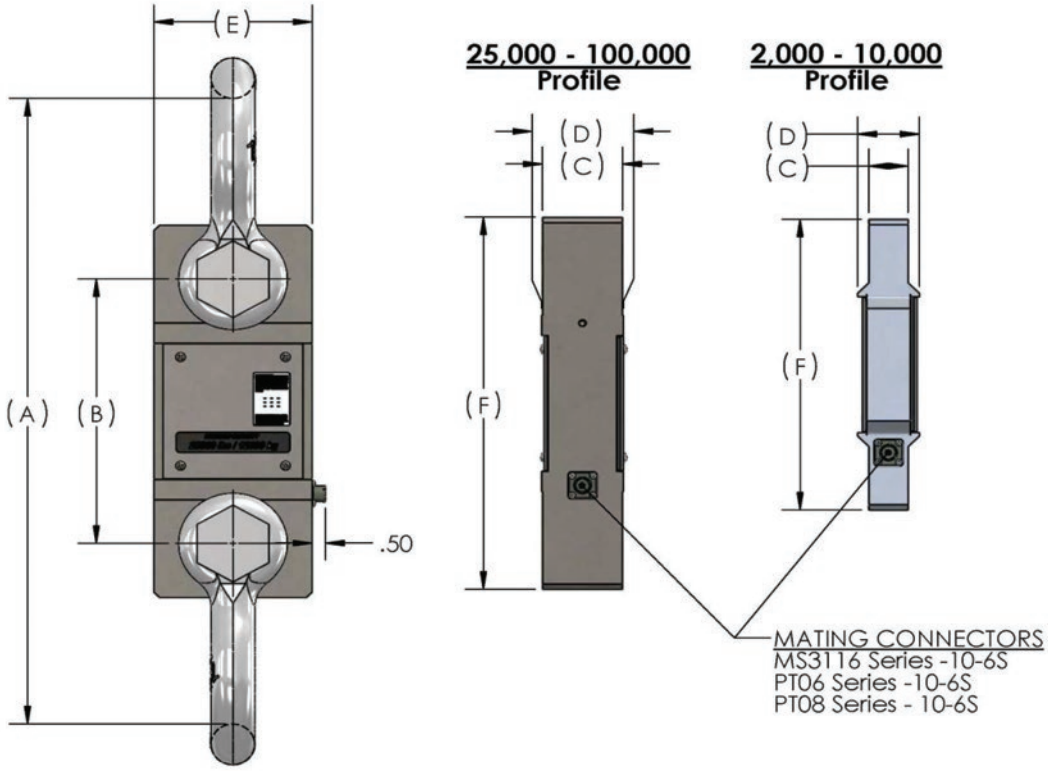
*Contact factory for higher capacities*



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## Dimensions

| Capacity (lbs) | P/N | Load Cell Material | (A) Headroom Loss | (B) C-C Length | (C) Lug Thk | (D) Body Thk | (E) Body Width | (F) Body Length | Lug Hole | Crosby Shackle | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,000 | 181907 | Aluminum | 13.50 | 8.00 | 0.99 | 2.13 | 4.50 | 9.75 | 0.78 | 3-1/4 T | 151357 |
| 5,000 | 181908 | Aluminum | 13.50 | 8.00 | 0.99 | 2.13 | 4.50 | 9.75 | 0.78 | 3-1/7 T | 151357 |
| 10,000 | 181909 | Aluminum | 16.13 | 8.50 | 1.35 | 2.13 | 5.37 | 10.75 | 1.05 | 6-1/2 T | 151355 |
| 25,000 | 178093 | Steel | 22.39 | 9.26 | 2.24 | 2.24 | 4.80 | 12.76 | 1.67 | 17 T | 141992 |
| 50,000 | 178094 | Steel | 25.74 | 9.76 | 2.74 | 2.81 | 5.43 | 13.76 | 2.05 | 25 T | 151356 |
| 100,000 | 181910 | Steel | 28.49 | 10.74 | 3.09 | 3.09 | 6.86 | 15.74 | 2.30 | 55 T | 146336 |










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# MSI Clamp-On Load Cell



## Specifications

**System Accuracy of Calibrated Capacity:**
3-5%

**Material:**
4340 steel, zinc plated

**IP Rating:**
IP68

**Cable Color Code:**
Red + Excitation
Black – Excitation
Green + Signal
White – Signal

**Cable Length:**
20 ft. (6 m) integral cable with blunt end termination

## Standard Features

- ETD 150 construction
- Accommodates up to 3/4-inch wire rope size
- IP68
- Larger diameter clamp ons available - call for pricing

## Options

- Custom sizes available on request
- Pair with an SCT transmitter for basic safety functions

## Part Number/Price

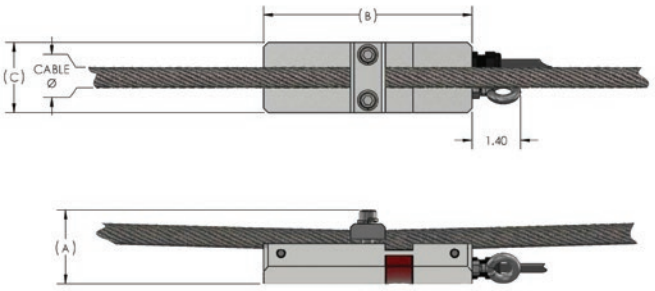
| Part # | Description | Price |
|---|---|---|
| **179080** | Load Cell Assembly Clamp-On for 3/8 to 1/2 in wire rope | $675.00 |
| **179082** | Load Cell Assembly Clamp-On for 9/16 to 3/4 in wire rope | $800.00 |
| **188816** | Kit with SCT-2200 for 3/8 to 1/2 in wire rope | $1,200.00 |
| **188817** | Kit with SCT-2200 for 9/16 to 3/4 in wire rope | $1,330.00 |

*Larger diameter clamp ons available - call for pricing*

## Dimensions

| Cable Range | Part # | A | B | C |
|---|---|---|---|---|
| 3/8 - 1/2 | **179080** | Cable + 1.70 | 6.00 | 2.00 |
| 9/16-3/4 | **179082** | Cable + 1.67 | 6.00 | 2.00 |

**8 mm cable can be used with PN 179080*






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# RL-330HHD/RL-330HHL
# Dial Home Health Scale



*Model RL-330HHD*



*Model RL-330HHL*

## Specifications

**Capacity:**
RL-330HHL: 330 lb x 1 lb
RL-330HHD: 330 lb x 1 lb (150 kg x 0.5 kg)

**Warranty:**
One-year limited warranty

## Standard Features

- Durable steel base and platform
- Non-slip mat
- Large dial display
- Units of measure: lb (RL-330HHL); lb, kg (RL-330HHD)
- Colorful markers to track weight values

## Part Number/Price

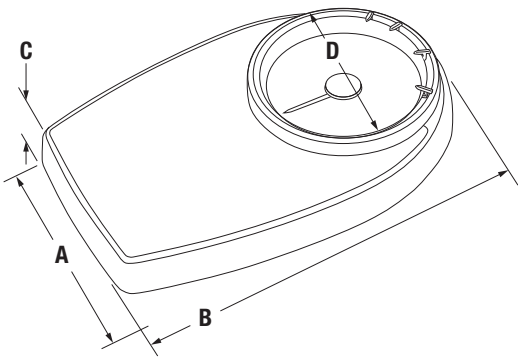
| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **110592** | RL-330HHL | 330 lb x 1 lb (lb markings only) | $61.00 |
| **113500** | RL-330HHD | 330 lb x 1 lb (150 kg x 0.5 kg) (lb and kg) | $61.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **110592** | RL-330HHL | 19 | 13 | 5 | 9 | 9 | 9 |
| **113500** | RL-330HHD | 19 | 12 | 6 | 9 | 10 | 10 |

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 11.2 | 28.5 |
| B | 16.9 | 43 |
| C | 2.5 | 6.4 |
| D | 7.9 | 20.1 |






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# DHH-10
# Digital Home Health Scale

## Specifications

**Capacity:**
440 lb x 0.2 lb (200 kg x 0.1 kg)

**Dimensions:**
(W x L x H) 15.4 in x 11.8 in x 1 in

**Battery Type:**
(2) AAA alkaline batteries (included)

**Display**
Digit size: 1.75 in

**Warranty:**
One-year limited warranty

**Approvals:**
CE Marked

**DHH-10BT:**
Designed to work with AccuroFit App available for Apple and Android

Download on the App Store

GET IT ON Google Play




*Model DHH-10*

## Standard Features

- 8 mm tempered safety glass weighing surface
- Low battery indication
- Display lb or kg
- Large LCD display

**APPROVALS**

CE

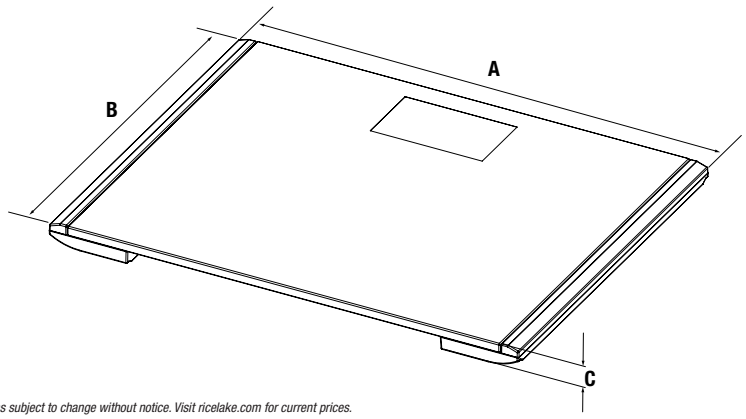
## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **Master Carton** | | | |
| ***195261** | DHH-10 | 440 lb x 0.2 lb (200 kg x 0.1 kg) | $100.00 |
| ***195262** | DHH-10BT | 440 lb x 0.2 lb (200 kg x 0.1 kg) with Bluetooth | $125.00 |
| **Single Carton** | | | |
| **201124** | DHH-10 | 440 lb x 0.2 lb (200 kg x 0.1 kg) | $61.00 |
| **201125** | DHH-10BT | 440 lb x 0.2 lb (200 kg x 0.1 kg) with Bluetooth | $73.50 |

**(2) scales contained in each master carton*

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **Master Carton** | | | | | | | |
| **195261** | DHH-10 | 18 | 15 | 4 | 13.7 | 7.8 | 13.7 |
| **195262** | DHH-10BT | 18 | 15 | 4 | 13.7 | 7.8 | 13.7 |
| **Single Carton** | | | | | | | |
| **201124** | DHH-10 | 17 | 13 | 2 | 6.5 | 3.0 | 6.5 |
| **201125** | DHH-10BT | 17 | 13 | 2 | 6.5 | 3.0 | 6.5 |




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 15.4 | 39 |
| B | 11.8 | 30 |
| C | 1 | 2.5 |

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# RL-MPS Mechanical Physician Scale

Lb and Kg



*Model RL-MPS*

LB & KG

## Specifications

**Capacity:**
440 lb x 4 oz (200 kg x 100 g)

**Platform Dimensions:**
(W x L x H) 10.75 in x 14.75 in x 4.125 in

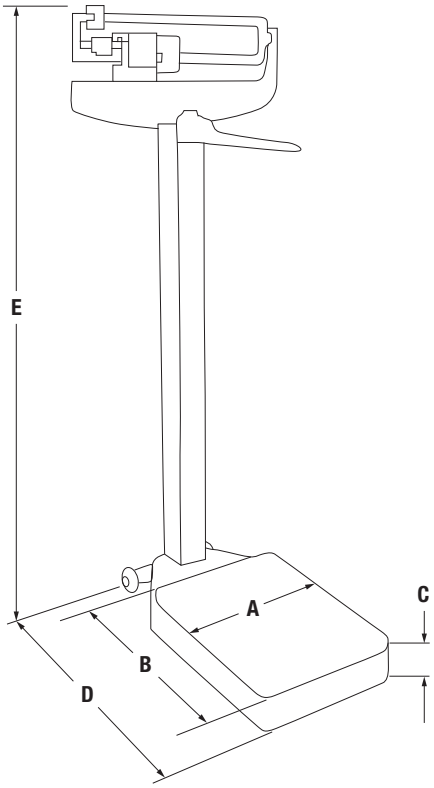
**Height Rod:**
24-84 in (60-212 cm)

**Height Division:**
0.125 in (0.1 cm)

**Warranty:**
Two-year limited warranty

## Standard Features

- Sturdy, enameled steel body
- Painted beam
- Rugged scale understructure
- Durable wheels for easy transport
- Easy operation with two sliding weights
- Removable slip-resistant scale base cover
- Aluminum height rod measures from 24 to 84 in (60 to 212 cm)




## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **102613** | RL-MPS | 440 lb x 4 oz (200 kg x 100 g) | $275.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **102613** | RL-MPS | 60 | 21 | 7 | 42 | 64 | 64 |

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 10.8 | 27.4 |
| B | 14.8 | 37.6 |
| C | 4.1 | 10.4 |
| D | 22.3 | 56.6 |
| E | 58.5 | 148.6 |



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# RL-MPS-10 Mechanical Physician Scale

Lb Only

## Specifications

**Capacity:**
450 lb x 4 oz

**Platform Dimensions:**
(W x L x H) 10.75 in x 14.75 in x 4.125 in

**Height Rod:**
24-84 in

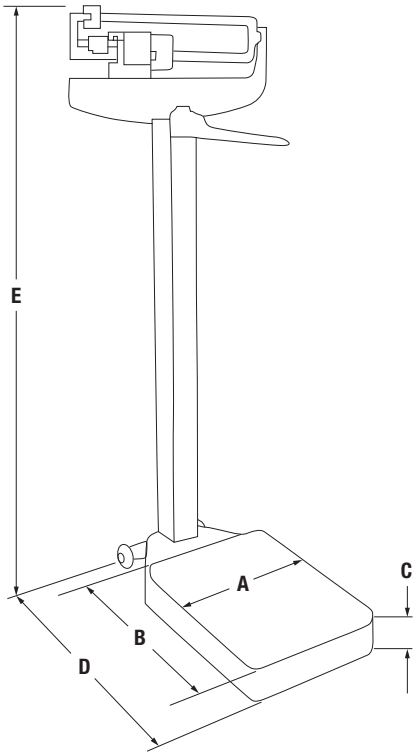
**Height Division:**
0.125 in

**Warranty:**
Two-year limited warranty

LB Only



*Model RL-MPS-10*




## Standard Features

- Sturdy, enameled steel body
- Painted beam
- Rugged scale understructure
- Durable wheels for easy transport
- Easy operation with two sliding weights
- Removable slip-resistant scale base cover
- Aluminum height rod measures from 24 to 84 inches

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **124223** | RL-MPS-10 | 450 lb x 4 oz | $275.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **124223** | RL-MPS-10 | 60 | 21 | 7 | 42 | 64 | 64 |

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 10.8 | 27.4 |
| B | 14.8 | 37.6 |
| C | 4.1 | 10.4 |
| D | 22.3 | 56.6 |
| E | 58.5 | 148.6 |





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# RL-MPS-20 Mechanical Physician Scale

Lb and Kg



*Model RL-MPS-20*

**LB & KG**
*no height rod*

## Specifications

**Capacity:**
440 lb x 4 oz (200 kg x 100 g)

**Platform Dimensions:**
(W x L x H) 10.75 in x 14.75 in x 4.125 in

**Warranty:**
Two-year limited warranty

## Standard Features

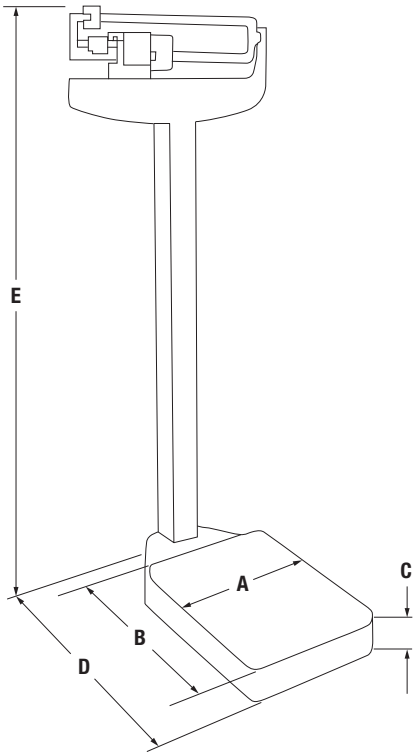
- Sturdy, enameled steel body
- Painted beam
- Rugged scale understructure
- Easy operation with two sliding weights
- Removable slip-resistant scale base cover

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **124222** | RL-MPS-20 | 440 lb x 4 oz (200 kg x 100 g) | $255.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **124222** | RL-MPS-20 | 60 | 21 | 7 | 36 | 64 | 64 |




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 10.8 | 27.4 |
| B | 14.8 | 37.6 |
| C | 4.1 | 10.4 |
| D | 22.3 | 56.6 |
| E | 58.5 | 148.6 |



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# RL-MPS-30 Mechanical Physician Scale

Kg Only

## Specifications

**Capacity:**
180 kg x 100 g

**Platform Dimensions:**
(W x L x H) 27.5 cm x 37.5 cm x 10.5 cm

**Height Division:**
0.1 cm

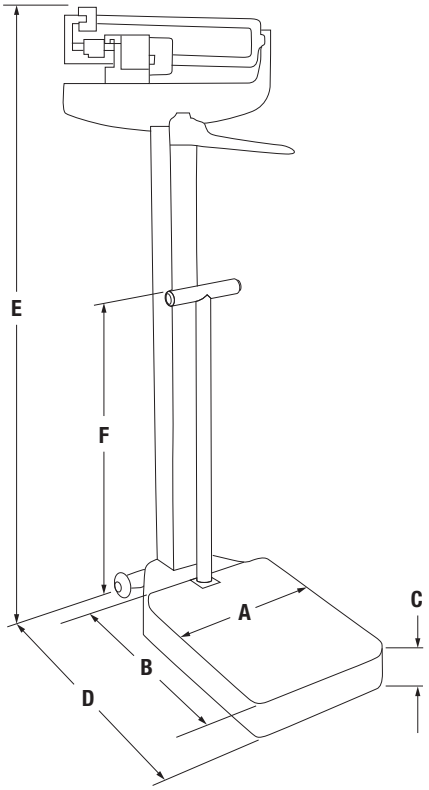
**Height Rod:**
60-212 cm

**Warranty:**
Two-year limited warranty

KG Only with handpost



*Model RL-MPS-30*




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 10.8 | 27.4 |
| B | 14.8 | 37.6 |
| C | 4.1 | 10.4 |
| D | 22.3 | 56.6 |
| E | 58.5 | 148.6 |
| F | 31.5 | 80.0 |

## Standard Features

- Sturdy, enameled steel body
- Painted beam
- Rugged scale understructure
- Handpost
- Durable wheels for easy transport
- Easy operation with two sliding weights
- Removable slip-resistant scale base cover
- Aluminum height rod measures from 60 to 212 cm

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **132703** | RL-MPS-30 | 180 kg x 100 g | $296.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **132703** | RL-MPS-30 | 60 | 21 | 7 | 40 | 64 | 64 |





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# RL-MPS-40 Mechanical Physician Scale

Lb and Kg



*Model RL-MPS-40*

LB & KG

## Specifications

**Capacity with counterpoise weights:**
490 lb x 4 oz (220 kg x 100 g)

**Platform Dimensions:**
(W x L x H) 10.75 in x 14.75 in x 4.125 in

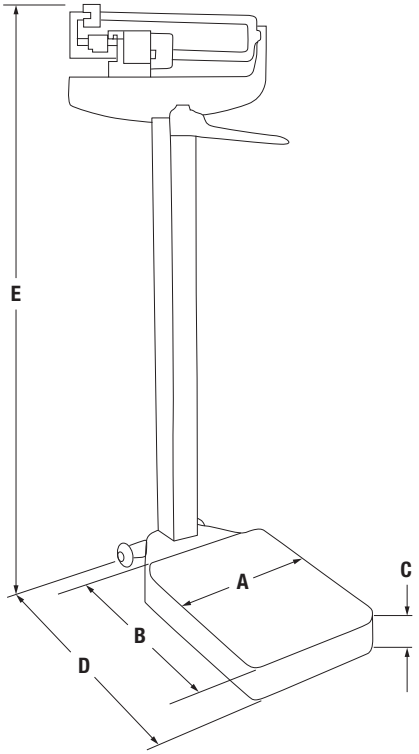
**Height Rod:**
24-84 in (60-212 cm)

**Height Division:**
0.125 in (0.1 cm)

**Warranty:**
Two-year limited warranty

## Standard Features

- Dual-read capacity and height rod
- Sturdy enameled steel body
- Painted beam designed to hold counterpoise weights
- Rugged scale understructure
- Removable slip-resistant plastic base cover
- Retractable aluminum height rod
- Easy operation with two sliding weights and two counterpoise weights
- Rear wheels for portability ease
- Aluminum height rod measures from 24 to 84 in (60 to 212 cm)




## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **185289** | RL-MPS-40 | 490 lb x 4 oz (220 kg x 100 g) | $291.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **185289** | RL-MPS-40 | 60 | 21 | 7 | 44 | 64 | 64 |

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 10.8 | 27.4 |
| B | 14.8 | 37.6 |
| C | 4.1 | 10.4 |
| D | 22.3 | 56.6 |
| E | 58.5 | 148.6 |



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# RL-MPS-50 Mechanical Physician Scale

Lb and Kg

## Specifications

**Capacity:**
450 lb x 4 oz (200 kg x 100 g)

**Platform Dimensions:**
(W x L x H) 11.02 in x 14.96 in x 4.21 in

**Height Division:**
0.25 in (5 mm)

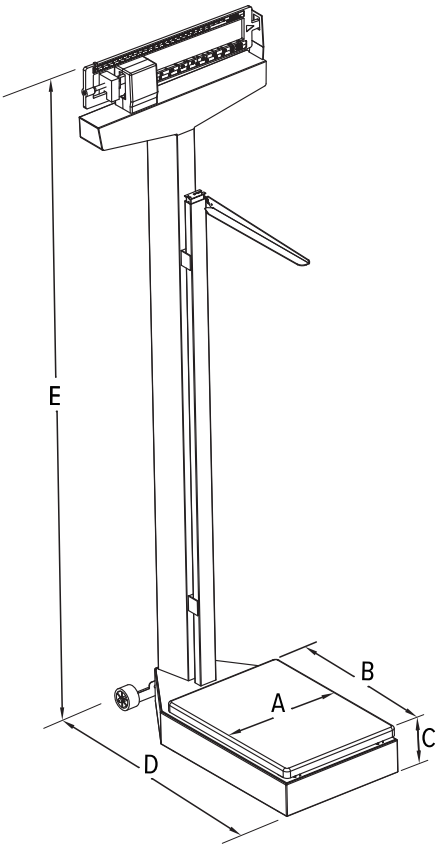
**Height Rod:**
29.5-78.75 in (75-200 cm)

**Warranty:**
One-year limited warranty

LB & KG



*Model RL-MPS-50*




## Standard Features

- Ease of transport with rear wheels
- Aluminum height rod included
- Poise travels free on weigh beam with simple finger tap
- Easy-to-read weigh beam's color-coded black inset shows LB markings, white inset shows KG markings. The beam can be rotated to the desired unit of measure.

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **195264** | RL-MPS-50 | 450 lb x 4 oz (200 kg x 100 g) | $295.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **195264** | RL-MPS-50 | 60 | 21 | 5 | 39 | 46 | 46 |

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 11 | 28.9 |
| B | 15 | 38.1 |
| C | 4.2 | 10.7 |
| D | 22.2 | 56.4 |
| E | 58.9 | 149.6 |











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# 150-10-5 Digital Physician Scale Eye-level



*Model 150-10-5*

## Specifications

**Capacity:**
550 lb x 0.2 lb (250 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 14.5 in x 14.5 in x 3 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Large, stable scale base
- Integrated height rod measures from 27.5 in to 82 in (70 cm to 208 cm)
- Rubber wheels for easy transport
- Push-button LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Hold function
- Zero function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **119113** | 150-10-5 | 550 lb x 0.2 lb (250 kg x 0.1 kg), with USB | $515.00 |
| **161818** | 150-10-5BT | 550 lb x 0.2 lb (250 x 0.1 kg), with USB and Bluetooth® 2.0 | $605.00 |
| **194726** | 150-10-5BLE | 550 lb x 0.2 lb (250 kg x 0.1 kg), with Bluetooth® BLE 4.0 | $707.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **119113** | 150-10-5 | 30 | 18 | 9 | 26 | 35 | 35 |
| **161818** | 150-10-5BT | 30 | 18 | 9 | 26 | 35 | 35 |
| **194726** | 150-10-5BLE | 30 | 18 | 9 | 26 | 35 | 35 |



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## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



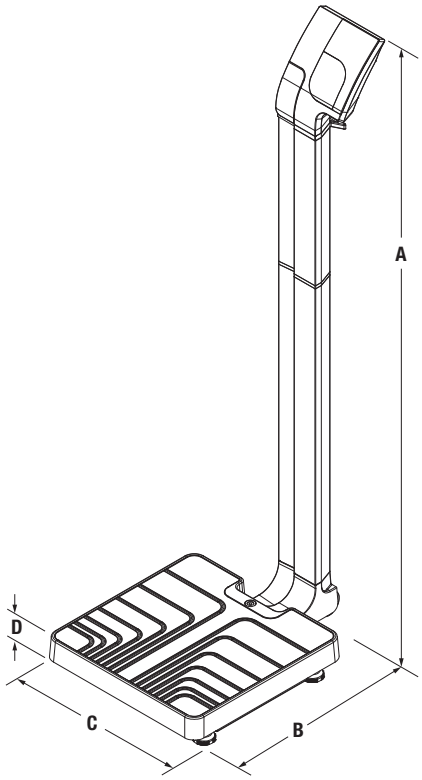
† NEMA 1-15 Plug



†† CEE 7/16 Plug

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 54 | 137.2 |
| B | 22.4 | 57 |
| C | 14.7 | 37.5 |
| D | 3.0 | 7.6 |








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# 150-10-6 Digital Physician Scale Waist-level



*Model 150-10-6*

## Specifications

**Capacity:**
550 lb x 0.2 lb (250 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 14.5 in x 14.5 in x 3 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Large, stable scale base
- Rubber wheels for easy transport
- Push- button LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Hold function
- Zero function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **161786** | 150-10-6 | 550 lb x 0.2 lb (250 kg x 0.1 kg), with USB | $495.00 |
| **161819** | 150-10-6BT | 550 lb x 0.2 lb (250 x 0.1 kg), with USB and Bluetooth® 2.0 | $583.00 |
| **194732** | 150-10-6BLE | 550 lb x 0.2 lb (250 x 0.1 kg), with Bluetooth® BLE 4.0 | $685.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **161786** | 150-10-6 | 30 | 19 | 9 | 25 | 37 | 37 |
| **161819** | 150-10-6BT | 30 | 19 | 9 | 25 | 37 | 37 |
| **194732** | 150-10-6BLE | 30 | 19 | 9 | 25 | 37 | 37 |



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## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



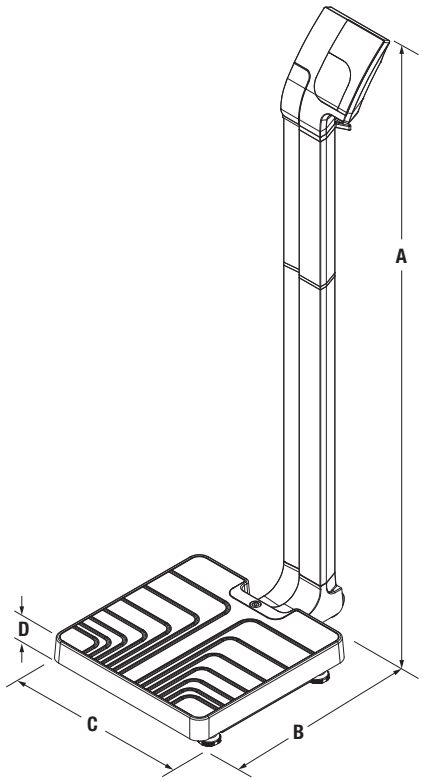
† NEMA 1-15 Plug



†† CEE 7/16 Plug

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 48.4 | 123 |
| B | 22.4 | 57 |
| C | 14.7 | 37.5 |
| D | 3.0 | 7.6 |








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# 150-10-7 Digital Physician Scale

Floor-level



*Model 150-10-7*

## Specifications

**Capacity:**
550 lb x 0.2 lb (250 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 14.5 in x 14.5 in x 3 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Large, stable scale base
- Push-button LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Hold function
- Zero function
- BMI (body mass index) function
- 6 ft cable between digital display and base
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **121304** | 150-10-7 | 550 lb x 0.2 lb (250 kg x 0.1 kg), with USB | $400.00 |
| **161820** | 150-10-7BT | 550 lb x 0.2 lb (250 kg x 0.1 kg), with USB and Bluetooth® 2.0 | $489.00 |
| **194728** | 150-10-7BLE | 550 lb x 0.2 lb (250 kg x 0.1 kg), with Bluetooth® BLE 4.0 | $591.00 |

## Shipping Weight

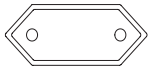
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **121304** | 150-10-7 | 25 | 18 | 6 | 17 | 20 | 20 |
| **161820** | 150-10-7BT | 25 | 18 | 6 | 17 | 20 | 20 |
| **194728** | 150-10-7BLE | 25 | 18 | 6 | 17 | 20 | 20 |

## Options/Accessories

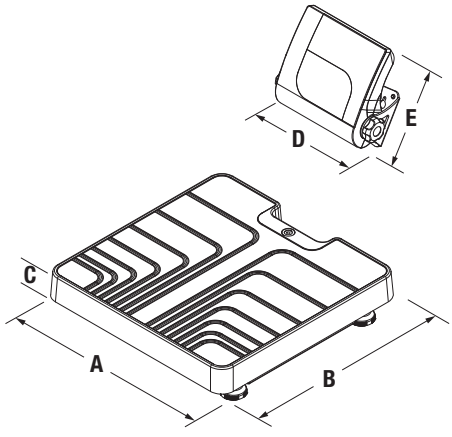
| Part # | Description | Price |
|---|---|---|
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **107445** | Carrying case | $92.00 |
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 14.7 | 37.5 |
| B | 14.7 | 37.5 |
| C | 3.0 | 7.6 |
| D | 7.8 | 20 |
| E | 6.7 | 17 |



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# 160-10-7N Digital Athletic Low-profile Scale



*Model 160-10-7N*

## Specifications

**Capacity:**
550 lb x 0.2 lb (250 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 14.4 in x 14.4 in x 1.65 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or 120V/230V AC adaptor, NEMA 1-15 plug (included)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986
NTEP CC 18-011
Measurement Canada AM-6097

**Warranty:**
Two-year limited warranty

## Standard Features

- Large, stable scale base
- Push-button LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- 6 ft cable between digital display and base
- Zero function
- Factory calibrated

## APPROVALS

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **193355** | 160-10-7N | 550 lb x 0.2 lb (250 kg x 0.1 kg) | $709.00 |

## Shipping Weight

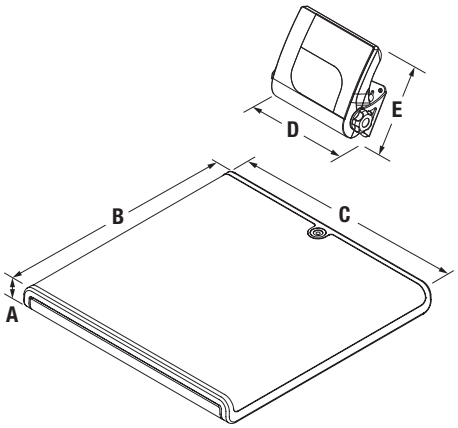
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **193355** | 160-10-7N | 20 | 18 | 6 | 18 | 16 | 18 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **107445** | Carrying case | $92.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 1.7 | 4.3 |
| B | 14.4 | 36.6 |
| C | 14.4 | 36.6 |
| D | 7.8 | 20 |
| E | 6.7 | 17 |





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# RL-WMS-10 Wall Mount Stadiometer



## Specifications

**Master Carton:**
10 stadiometers per master carton

**Measurement Range:**
23 to 82 in (60 to 210 cm)

**Height Divisions:**
1/16 in (1 mm)

**Warranty:**
One-year limited warranty

## Standard Features

- Aluminum construction
- Folding headpiece makes the product compact when not in use
- Measures both inches and centimeters
- Hardware included for mounting to metal, wood or sheet rock walls

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| ***195263** | RL-WMS-10 | 23-82 x 1/16 in (60-120 cm x 1 mm) | $980.00 |

**10 Stadiometers per master carton*



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# RL-MIS Mechanical Baby Scale

Lb and Kg Beam

## Specifications

**Capacity:**
135 lb x 1 oz (62 kg x 20 g)

**Tray Dimensions:**
(W x L x H) 24 in x 16 in x 3 in
61 cm x 41 cm x 7.5 cm

**Warranty:**
Two-year limited warranty




*Model RL-MIS*

## Standard Features

- Painted beam
- Sturdy, enameled steel body
- Easy-to-clean ABS plastic tray
- Dual-read capacity; lb and kg
- Built-in measuring tape 0-23 in (0-58 cm)

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **131470** | RL-MIS | 135 lb x 1 oz (62 kg x 20 g) | $296.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **131470** | RL-MIS | 28 | 20 | 14 | 30 | 57 | 57 |





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# RL-MIS-20 Mechanical Baby Scale

Kg Beam



*Model RL-MIS-20*

**KG Only**

## Specifications

**Capacity:**
70 kg x 20 g

**Tray Dimensions:**
(W x L x H) 61 cm x 41 cm x 7.5 cm

**Warranty:**
Two-year limited warranty

## Standard Features

- Painted beam
- Sturdy, enameled steel body
- Easy-to-clean ABS plastic tray
- Unit of measure: kg
- Built-in measuring tape 0-58 cm

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **131471** | RL-MIS-20 | 70 kg x 20 g | $296.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **131471** | RL-MIS-20 | 28 | 20 | 14 | 30 | 57 | 57 |



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# Digital Baby Scale - Suspended Infant Scale

## Specifications

**Capacity:**
OS-10: 22 lb x 0.02 lb (22 lb x 0.25 oz)
(10 kg x 0.01 kg)
OS-25: 55 lb x 0.05 lb (55 lb x 0.5 oz)
(25 kg x 0.02 kg)
OS-45: 99 lb x 0.1 lb (99 lb x 1 oz)
(45 kg x .05 kg)

**Power:**
Two AA batteries (included)

**Operating Temperature:**
32° F to 104° F (0° C to 40° C)

**Warranty:**
One-year limited warranty

**Approvals:**
CE Marked




*Sturdy steel closed loop S-hook for safety*

*Carrying case*

*Model OS-10/25/45*

## Standard Features

- Hold function
- Units of measure kg/lb/lb-oz
- Adjustable automatic shut-off
- Ergonomic handheld design
- Carrying case and top s-hook included

APPROVALS

CE

## Part Number/Price

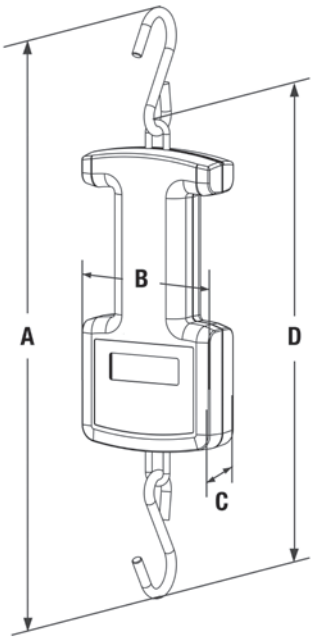
| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **130292** | OS-10 | 22 lb × 0.02 lb (22 lb × 0.25 oz) (10 kg × 0.01 kg) | $80.00 |
| **130293** | OS-25 | 55 lb × 0.05 lb (22 lb × 0.5 oz) (25 kg × 0.02 kg) | $80.00 |
| **130294** | OS-45 | 99 lb × 0.1 lb (22 lb × 1 oz) (45 kg × 0.05 kg) | $80.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **130292** | OS-10 | 10 | 5 | 3 | 2 | 2 | 2 |
| **130293** | OS-25 | 10 | 5 | 3 | 2 | 2 | 2 |
| **130294** | OS-45 | 10 | 5 | 3 | 2 | 2 | 2 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **141444** | Suspended pediatric sling seat trousers | $5.00 |




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 14.27 | 36.25 |
| B | 3.62 | 9.2 |
| C | 1.26 | 3.2 |
| D | 11.56 | 29.35 |



*Optional suspended pediatric sling trousers*





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# RL-DBS Digital Baby Scale



*Model RL-DBS*

## Specifications

**Capacity:**
44 lb x 0.5 oz (20 kg x 10 g)

**Power:**
Four AA alkaline batteries (included) or AC adaptor (included)

**Battery Type:**
Four AA alkaline (included)

**Approvals:**
AC adaptor: UL and C-UL

**Warranty:**
Two-year limited warranty

## Standard Features

- Large 1- inch LCD display
- Unit of measure locking
- Recall function to view last weight
- Automatic shut-off for long battery life
- Built-in measuring tape 0-22.5 in (0-57 cm)

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **107423** | RL-DBS | 44 lb x 0.5 oz (20 kg x 10 g), includes 120 VAC adaptor | $132.00 |
| **112571** | RL-DBS | 44 lb x 0.5 oz (20 kg x 10 g), includes 230 VAC adaptor | $132.00 |

## Shipping Weight

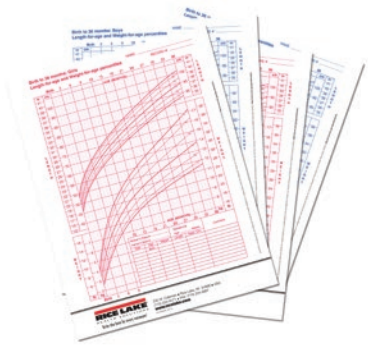
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **107423** | RL-DBS 120V | 28 | 18 | 6 | 8 | 22 | 22 |
| **112571** | RL-DBS 230V | 27 | 18 | 6 | 10 | 21 | 21 |

## Options/Accessories

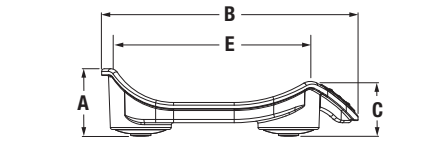
| Part # | Description | Price |
|---|---|---|
| **112570** | Carrying Case | $56.00 |
| **158463** | Growth Chart, Birth to 36 months, Boy, contains 100 sheets | $26.00 |
| **158464** | Growth Chart, Birth to 36 months, Girl, contains 100 sheets | $25.00 |
| **158465** | Growth Chart, 2-20 years Boy, contains 100 sheets | $26.00 |
| **158466** | Growth Chart, 2-20 years Girl, contains 100 sheets | $26.00 |

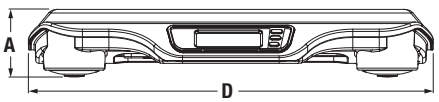


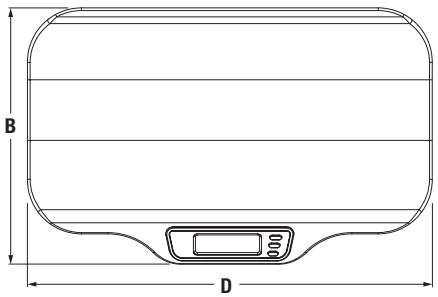

*Optional Transport/Carrying Case*



*Optional Growth Charts*




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 3.9 | 10.03 |
| B | 15.0 | 38.0 |
| C | 3.1 | 7.93 |
| D | 23.6 | 60.0 |
| E | 11 | 27.9 |



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# RL-DBS-2 Digital Baby Scale

Dual Range

## Specifications

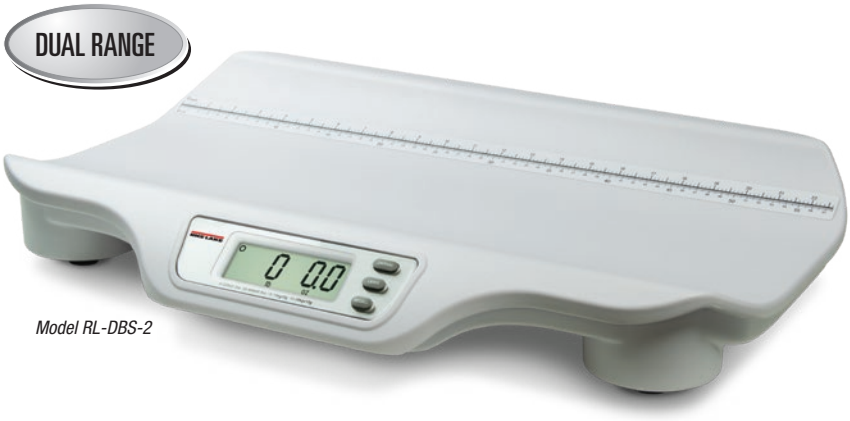
**Capacity:**
0-22 lb x 0.2 oz (0-10 kg x 5 g)
22-44 lb x 0.5 oz (10-20 kg x 10 g)

**Power:**
Four AA alkaline batteries (included) or AC adaptor (included)

**Battery Type:**
Four AA alkaline (included)

**Approvals:**
AC adaptor: UL and C-UL

**Warranty:**
Two-year limited warranty




*Model RL-DBS-2*

## Standard Features

- Large 1- inch LCD display
- Dual-range capacity for increased precision from 0-22 lb
- Accuracy within five grams
- Unit of measure locking
- Recall function to view last weight
- Automatic shut-off for long battery life
- Built-in measuring tape 0-22.5 in (0-57 cm)
- Optional carrying case

## Part Number/Price

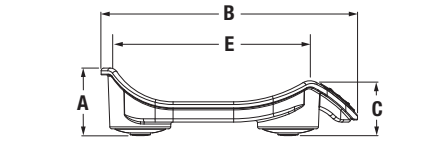
| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **155922** | RL-DBS-2 | 0-22 lb × 0.2 oz, 22-44 lb × 0.5 oz (0-10 kg × 5 g, 10-20 kg × 10 g) includes 120 VAC adaptor | $158.00 |
| **155923** | RL-DBS-02 | 0-22 lb × 0.2 oz, 22-44 lb × 0.5 oz (0-10 kg × 5 g, 10-20 kg × 10 g) includes 230 VAC adaptor | $158.00 |

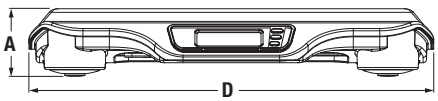
## Shipping Weight

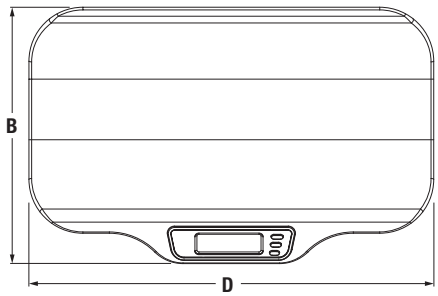
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **155922** | RL-DBS-2 120V | 28 | 18 | 6 | 10 | 22 | 22 |
| **155923** | RL-DBS-2 230V | 28 | 18 | 6 | 10 | 22 | 22 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **112570** | Carrying Case | $56.00 |
| **158463** | Growth Chart, Birth to 36 months, Boy, contains 100 sheets | $26.00 |
| **158464** | Growth Chart, Birth to 36 months, Girl, contains 100 sheets | $25.00 |
| **158465** | Growth Chart, 2-20 years Boy, contains 100 sheets | $26.00 |
| **158466** | Growth Chart, 2-20 years Girl, contains 100 sheets | $26.00 |




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 3.9 | 10.03 |
| B | 15.0 | 38.0 |
| C | 3.1 | 7.93 |
| D | 23.6 | 60.0 |
| E | 11 | 27.9 |



*Optional Growth Charts*




*Optional Transport/Carrying Case*

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# D400 Adult and Child Scale



*Model D400*

## Specifications

**Capacity:**
No tare entered:
0-100 lb x 0.1 lb; 100-440 lb x 0.2 lb
Tare entered: 0-100 lb x 2 oz; 100-400 lb x 4 oz
Metric: 0-50 kg x 0.05 kg; 50-200 kg x 0.1 kg

**Power:**
Four AA alkaline batteries (included) or
AC adaptor (included)

**Battery Type:**
Four AA alkaline (included)

**Warranty:**
One-year limited warranty

## Standard Features

- Large, stable scale base
- LCD display
- Standard or Adult and Child weighing mode
- Tap to turn on
- Auto power-off ensures long battery life
- Master power switch to prevent power-on during transport
- Units of measure: lb, kg
- Scale capacity switches from pounds to ounces when tare function for adult weight is used
- Optional carrying case

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **157108** | D400 | 440 lb (220 kg) | $132.00 |

## Shipping Weight

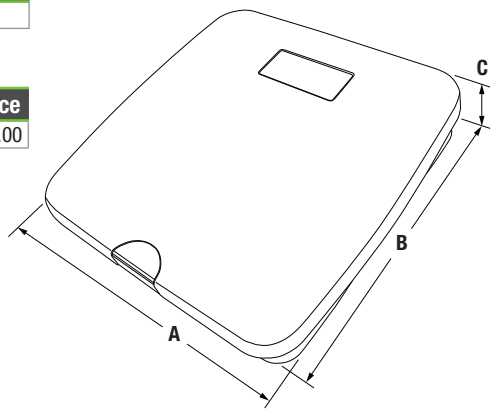
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **157108** | D400 | 17 | 15 | 6 | 9 | 12 | 12 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **107445** | Carrying case | $92.00 |




*Optional Transport/Carrying Case*




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 12.68 | 32.2 |
| B | 12.68 | 32.2 |
| C | 1.97 | 5.0 |



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# 650-10-1 Neonatal Scale

Dual Range

## Specifications

**Capacity:**
0-10 lb x 0.05 oz (0-5 kg x 1 g)
10-33 lb x 0.1 oz (5-15 kg x 2 g)

**Power:**
12 VDC, provided by six AA lithium batteries (included) or AC adaptor (optional)

**Battery Type:**
Six Li-FeS2 batteries

**Operating Temperature:**
50° F to 95° F (10° C to 35° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met E113986

**Warranty:**
Two-year limited warranty




*Model 650-10-1*

## Standard Features

- Large, easy-to-read, 0.75- in LCD display
- Dual-range capacity for increased precision from 0-10 lb
- Unit of measure locking
- Automatic shut-off for long battery life
- Motiontrap™ movement compensation technology
- Built-in measuring tape 0-23.5 in x 0.125 in (0-60 cm x 0.25 cm)

## Part Number/Price

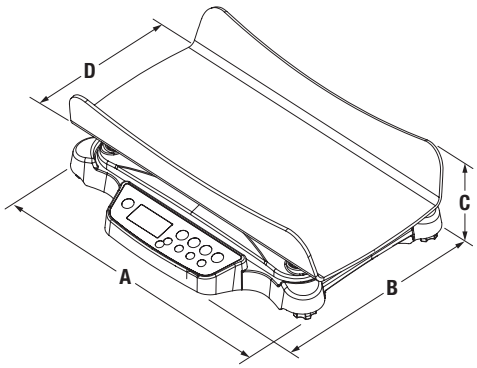
| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **161784** | 650-10-1 | 0-10 lb × 0.05 oz, 10-33 lb × 0.1 oz (0-5 kg × 1 g, 5-15 kg × 2 g) 120V/230V | $883.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **161784** | 650-10-1 | 18 | 28 | 11 | 25 | 40 | 40 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **165138** | AC adaptor, input voltage 100-240V, c-Met, medical grade | $46.00 |




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 24 | 60.8 |
| B | 19 | 48.2 |
| C | 6.75 | 17.1 |
| D | 17 | 43.2 |

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# RL-PMM Pediatric Measuring Mat



## Standard Features

- Graduations in inches and centimeters along both edges for easy viewing (PN 180124)
- Graduations in centimeters along both edges for easy viewing (PN 182999)
- Washable surface
- Fixed head positioner with sliding foot piece
- Soft, flexible, latex free material
- Head positioner and foot piece designed with rounded edges for safety
- Carry handle and lightweight design for easy portability

## Part Number/Price

| Part # | Model # | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **180124** | RL-PMM-10 | 4 in - 39 in (20 cm - 99 cm) measuring range<br>1/4 in (5 mm) graduation | 2 lb | $41.00 |
| **182999** | RL-PMM-20 | 20 cm - 99 cm measuring range<br>5 mm graduation | 2 lb | $41.00 |

# RL-PCT-10 Pediatric Circumference Tape




## Standard Features

- Button to make tape retract around measurement surface for accurate body measurements
- Easy to read measurements, inches on one side centimeters on the other side
- Compact and portable

## Part Number/Price

| Part # | Model # | Measuring Range | Est. Weight | Price |
|---|---|---|---|---|
| **186608** | RL-PCT-10 | 0-205 cm x 1 mm; 0-80 in x 1/8 in | 1 lb | $6.00 |



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# 260-10-1 Bariatric Handrail Scale



*Model 260-10-1*

## Specifications

**Capacity:**
800 lb x 0.2 lb (360 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 24 in x 24 in x 2.75 in

**Height Rod Dimensions:**
30-83.125 in (77-211 cm)

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

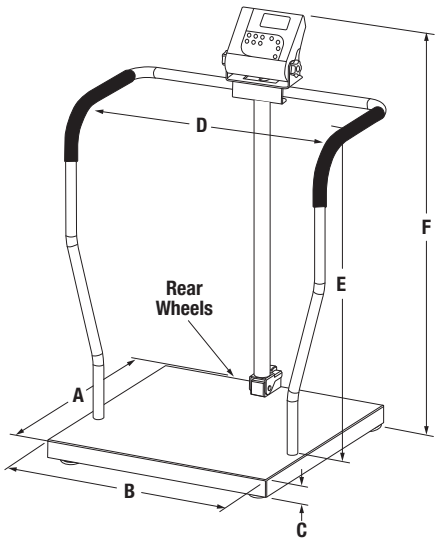
**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Warranty:**
Two-year limited warranty

*Height rod can be mounted on either side*



*Shown with optional height rod*




## Standard Features

- Handrail for support and safety
- Two wheels for ease of portability
- Large 1-inch LCD display
- Non- skid platform
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- Optional height rod can be installed on-site

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **170139** | 260-10-1 | 800 lb x 0.2 lb (360 kg x 0.1 kg) with USB | $1,046.00 |

## Shipping Weight

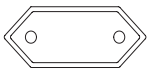
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **170139** | 260-10-1 | 40 | 40 | 10 | 58 | 116 | 116 |
| **172958** | Height Rod | 33 | 9 | 3 | 3 | 7 | 7 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **172958** | Height rod 30-83 in (77-210 cm) | $66.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug

## Dimensions

| | Inches | Centimeters | | Inches | Centimeters |
|---|---|---|---|---|---|
| A | 24 | 61 | D | 25.5 | 65 |
| B | 24 | 61 | E | 33.5 | 85 |
| C | 2.75 | 7 | F | 43 | 109 |





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# 250-10-2 Bariatric Handrail Scale



*Model 250-10-2*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 20 in x 25 in x 3 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Handrail for support and safety
- Two wheels for ease of portability
- Large 1-inch LCD display
- Non-skid platform
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **133119** | 250-10-2 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,145.00 |
| **168350** | 250-10-2BT | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB and Bluetooth® 2.0 | $1,235.00 |
| **194733** | 250-10-2BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) Bluetooth® BLE 4.0 | $1,337.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **133119** | 250-10-2 | 45 | 29 | 9 | 66 | 85 | 85 |
| **168350** | 250-10-2BT | 45 | 29 | 9 | 66 | 85 | 85 |
| **194733** | 250-10-2BLE | 45 | 29 | 9 | 66 | 85 | 85 |

## Options/Accessories

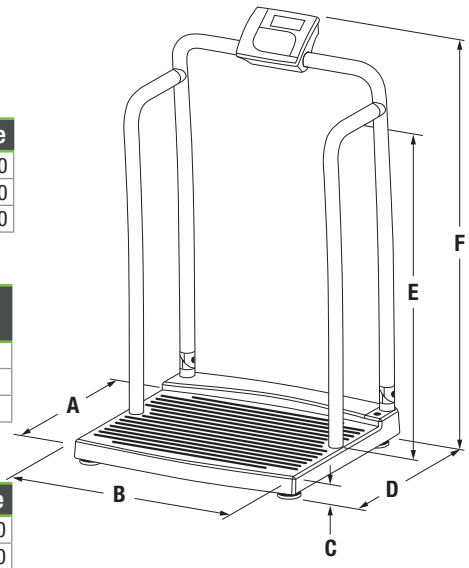
| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 20 | 50.8 |
| B | 25 | 63.5 |
| C | 3 | 7.6 |
| D | 25 | 63.5 |
| E | 34 | 86.4 |
| F | 44.5 | 113 |



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# 250-10-4 Bariatric Handrail Scale

With Seat

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 20 in x 25 in x 3 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

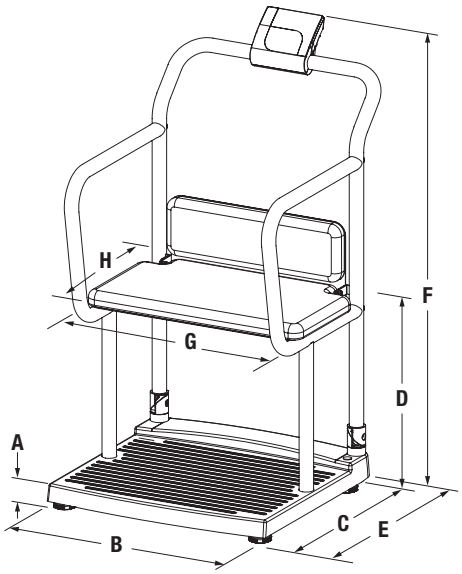
**Warranty:**
Two-year limited warranty



*Model 250-10-4*

## Standard Features

- Handrail for support and safety
- Folding seat
- Two wheels for ease of portability
- Large 1-inch LCD display
- Non-skid platform
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 2.8 | 7 |
| B | 25.7 | 65.3 |
| C | 25.2 | 64 |
| D | 21.6 | 54.9 |
| E | 32 | 81.1 |
| F | 47.5 | 120.7 |
| G | 20 | 50.8 |
| H | 12 | 30.5 |

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **133120** | 250-10-4 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,807.00 |
| **168448** | 250-10-4BT | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB and Bluetooth® 2.0 | $1,897.00 |
| **194734** | 250-10-4BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) Bluetooth® BLE 4.0 | $1,999.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **133120** | 250-10-4 | 32 | 27 | 46 | 70 | 286 | 286 |
| **168448** | 250-10-4BT | 32 | 27 | 46 | 70 | 286 | 286 |
| **194734** | 250-10-4BLE | 32 | 27 | 46 | 70 | 286 | 286 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug





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# RL-MCS Rice Lake Mechanical Chair Scale

16 Inch Wide Seat



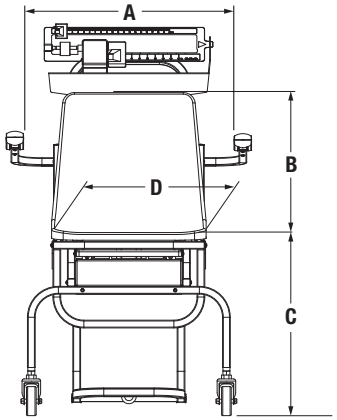
## Specifications

**Capacity:**
Lb only beam 440 lb x 4 oz
Kg only beam 200 kg x 100 g

**Warranty:**
Two-year limited warranty

## Standard Features

- Capacity: Lb only beam 440 lb x 4 oz; kg only beam 200 kg x 100 g
- Swing-up arms for easy access and exit
- Fold up footrest
- Sturdy enameled, steel frame
- Dual read die cast beam
- Polypropylene seat with ABS armrest
- Heavy duty wheels - two back wheels lock, two front wheels swivel

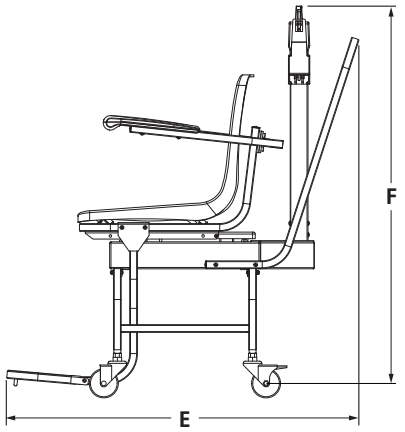


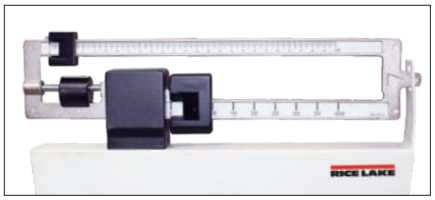

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **172098** | RL-MCS-LB | 450 lb x 4 oz | $546.00 |
| **172099** | RL-MCS-KG | 200 kg x 100 g | $546.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **172098** | RL-MCS-LB | 29 | 25 | 25 | 79 | 131 | 131 |
| **172099** | RL-MCS-KG | 29 | 25 | 25 | 79 | 131 | 131 |




*Model RL-MCS-LB*

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 21.5 | 54.6 |
| B | 14.2 | 36.1 |
| C | 14.8 | 37.6 |
| D | 16 | 40.6 |
| E | 35.7 | 90.7 |
| F | 38.4 | 97.5 |



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# 560-10-1 Digital Chair Scale

20 Inch Wide Seat



*Model 560-10-1*



## Specifications

**Capacity:**
660 lb x 0.2 lb (300 kg x 0.1 kg)

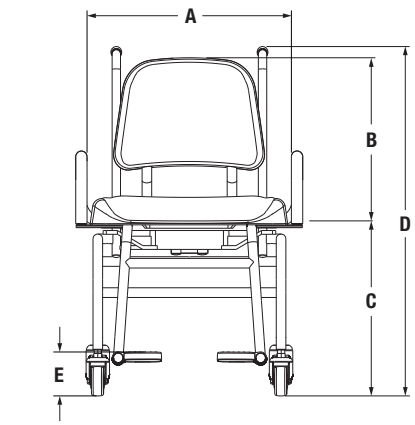
**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

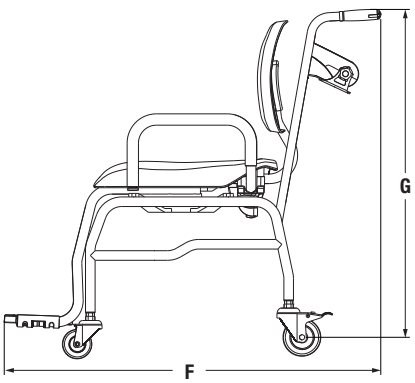
**Power:**
9 VDC provided by six AA alkaline batteries (included) or 120 V/230 VAC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Warranty:**
Two-year limited warranty




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 20.1 | 51.1 |
| B | 17.3 | 44.0 |
| C | 20.1 | 51.1 |
| D | 36.4 | 92.5 |
| E | 5.9 | 15.0 |
| F | 42.9 | 109.0 |
| G | 34.6 | 88.0 |

## Standard Features

- Enameled tubular steel frame
- Four heavy-duty caster wheels (rear wheels locking)
- Swing-up arms
- Side-folding footrests
- Molded seat
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **166644** | 560-10-1 | 660 lb x 0.2 lb (300 kg x 0.1 kg) | $1,046.00 |

## Shipping Weight

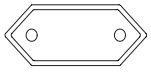
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **166644** | 560-10-1 | 33 | 23 | 27 | 65 | 148 | 148 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug



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# 550-10-1 Digital Chair Scale

17 Inch Wide Seat



*Model 550-10-1*

## Specifications

**Capacity:**
660 lb x 0.2 lb (300 kg x 0.1 kg)

**Power:**
9 VDC provided by six AA alkaline batteries (included) or 120 V/230 VAC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

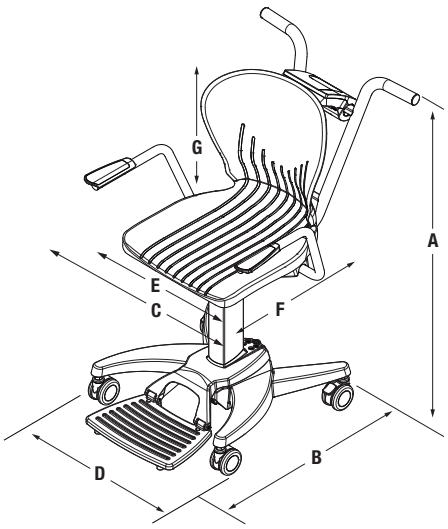
**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Enameled tubular steel frame
- Four heavy-duty locking caster wheels
- Swing-up arms
- Flip-up footrest
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated




## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **119114** | 550-10-1 | 660 lb x 0.2 lb (300 kg x 0.1 kg) with USB | $999.00 |
| **168349** | 550-10-1BT | 660 lb x 0.2 lb (300 kg x 0.1 kg) with USB and Bluetooth® 2.0 | $1,088.00 |
| **194740** | 550-10-1BLE | 660 lb x 0.2 lb (300 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,190.00 |

## Shipping Weight

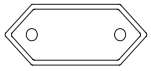
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **119114** | 550-10-1 | 29 | 27 | 30 | 56 | 169 | 169 |
| **168349** | 550-10-1BT | 29 | 27 | 29 | 54 | 164 | 164 |
| **194740** | 550-10-1BLE | 29 | 27 | 29 | 54 | 164 | 164 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug

## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 37.4 | 95 |
| B | 33.4 | 85 |
| C | 25.2 | 64 |
| D | 20.5 | 52 |
| E | 17 | 43.2 |
| F | 16 | 40.6 |
| G | 17 | 43.2 |



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# D300 Series Wireless Wheelchair Scale

## Specifications

**Capacity:**
D300-8: 800 lb x 0.5 lb (363 kg x 0.2 kg)

**Power:**
Wheel pads: Eight EL-123 batteries per scale system (two per pad) (included)
Controller: Three AAA lithium batteries (included)

**Operating Temperature:**
50° F to 90° F (10° C to 32° C)

**Warranty:**
Two-year limited warranty



*Model D300*




*Optional transport/carrying case*



*Wheelchair positioned on pads*

## Standard Features

- Four lightweight, wireless scale pads
- Powder-coated molded plastic and cast aluminum construction
- Four wheel-stops and roll-up ramps
- Handheld controller
- Rubber controller glove and lanyard
- Optional carrying case

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **157141** | D300-8 | 800 lb x 0.5 lb (363 kg x 0.2 kg) | $2,832.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **157141** | D300-8 | 17 | 13 | 13 | 15 | 21 | 21 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **107445** | Carrying Case | $92.00 |







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# 350-10-3M Dual-ramp Wheelchair Scale

Metal Platform



*Model 350-10-3M*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 31.5 in x 29.5 in x 3.15 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

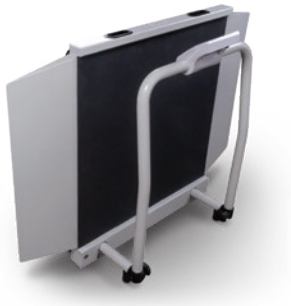
**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Two wheels for portability
- Dual ramp
- Non-slip platform
- Large 1-inch LCD display
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in



*Wheelchair scale in folded position*

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **193956** | 350-10-3M | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) | $1,933.00 |

## Shipping Weight

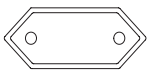
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **193956** | 350-10-3M | 51 | 42 | 14 | 102 | 216 | 216 |

## Options/Accessories

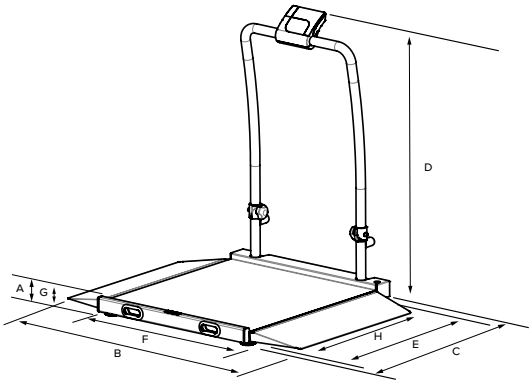
| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 3.15 | 8.0 |
| B | 47.7 | 121.2 |
| C | 37.8 | 96 |
| D | 45.3 | 115.1 |
| E | 31.5 | 80 |
| F | 29.5 | 74.9 |
| G | 2.4 | 6.1 |
| H | 27.2 | 69.1 |



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# 350-10-2 Single-Ramp Wheelchair Scale

with Handrail



*Model 350-10-2*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions Without Ramps:**
(W x L x H) 32 in x 29.5 in x 2.375 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

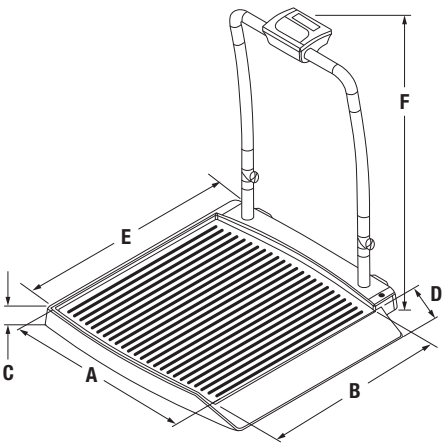
**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty



*Wheelchair scale in folded position*




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 29.5 | 74.9 |
| B | 32 | 81.3 |
| C | 2.4 | 6.1 |
| D | 9.25 | 23.5 |
| E | 37.5 | 95.3 |
| F | 45 | 114.3 |

## Standard Features

- Two wheels for portability
- Single ramp
- Non-slip platform
- Large 1-inch LCD display
- Motiontrap™ (movement compensation technology)
- Unit of measure toggle or locking
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **141445** | 350-10-2 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,145.00 |
| **168351** | 350-10-2BT | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB and Bluetooth® 2.0 | $1,235.00 |
| **194739** | 350-10-2BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,337.00 |

## Shipping Weight

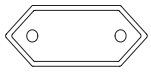
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **141445** | 350-10-2 | 42 | 41 | 14 | 90 | 174 | 174 |
| **168351** | 350-10-2BT | 42 | 41 | 14 | 90 | 174 | 174 |
| **194739** | 350-10-2BLE | 42 | 41 | 14 | 90 | 174 | 174 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug





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# 350-10-7 Single-ramp Wheelchair Platform Scale



*Model 350-10-7*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions Without Ramps:**
(W x L x H) 32 in x 29.5 in x 2.375 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Two wheels for portability
- Single ramp
- Non-slip platform
- Large 1-inch LCD display
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **141446** | 350-10-7 | 1,000 x 0.2 lb (450 x 0.1 kg) with USB | $1,093.00 |
| **168352** | 350-10-7BT | 1,000 x 0.2 lb (450 x 0.1 kg) with USB and Bluetooth® 2.0 | $1,182.00 |
| **194738** | 350-10-7BLE | 1,000 x 0.2 lb (450 x 0.1 kg) with Bluetooth® BLE 4.0 | $1,284.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **141446** | 350-10-7 | 45 | 44 | 7 | 78 | 100 | 100 |
| **168352** | 350-10-7BT | 45 | 44 | 7 | 78 | 100 | 100 |
| **194738** | 350-10-7BLE | 45 | 44 | 7 | 78 | 100 | 100 |

## Options/Accessories

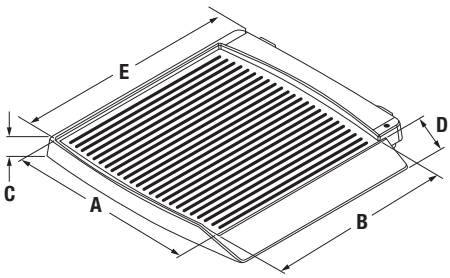
| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 29.5 | 74.9 |
| B | 32 | 81.3 |
| C | 2.4 | 6.1 |
| D | 9.25 | 23.5 |
| E | 37.5 | 95.3 |



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# 350-10-3 Dual-ramp Wheelchair Scale

with Handrail



*Model 350-10-3*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 32 in x 29.5 in x 2.375 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

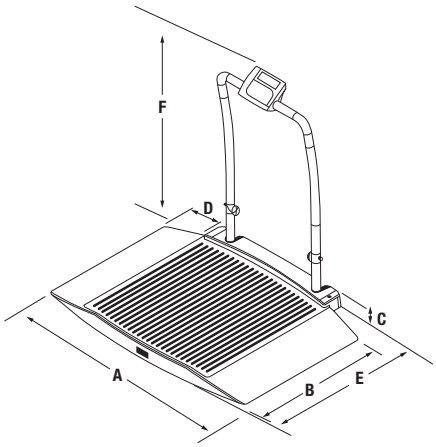
**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty



*Wheelchair scale in folded position*




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 48.5 | 123.2 |
| B | 32 | 81.3 |
| C | 2.4 | 6.1 |
| D | 9.3 | 23.6 |
| E | 38 | 96.5 |
| F | 45 | 114.3 |

## Standard Features

- Two wheels for portability
- Dual ramp
- Non-slip platform
- Large 1-inch LCD display
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **141447** | 350-10-3 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,755.00 |
| **168353** | 350-10-3BT | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB and Bluetooth® 2.0 | $1,844.00 |
| **194736** | 350-10-3BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,946.00 |

## Shipping Weight

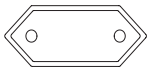
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **141447** | 350-10-3 | 51 | 42 | 14 | 102 | 216 | 216 |
| **168353** | 350-10-3BT | 51 | 42 | 14 | 102 | 216 | 216 |
| **194736** | 350-10-3BLE | 51 | 42 | 14 | 102 | 216 | 216 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug





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# 350-10-4 Dual-ramp Wheelchair Scale

With Seat and Handrail



*Model 350-10-4*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 32 in x 29.5 in x 2.375 in

**Chair Dimensions:**
(W x D) 12 in x 6.25 in

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

## Standard Features

- Two wheels for portability
- Dual ramp
- Non-slip platform
- Fold-away padded seat with backrest
- Large 1-inch LCD display
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **141448** | 350-10-4 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $2,521.00 |
| **168354** | 350-10-4BT | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB and Bluetooth® 2.0 | $2,611.00 |
| **194737** | 350-10-4BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $2,713.00 |

## Shipping Weight

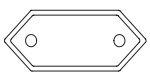
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **141448** | 350-10-4 | 51 | 43 | 21 | 132 | 332 | 332 |
| **168354** | 350-10-4BT | 51 | 43 | 21 | 132 | 332 | 332 |
| **194737** | 350-10-4BLE | 51 | 43 | 21 | 132 | 332 | 332 |

## Options/Accessories

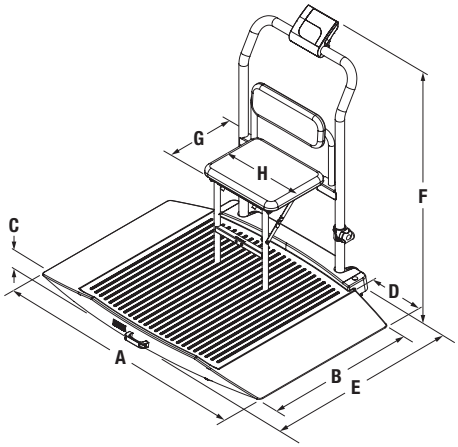
| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 48.5 | 123.2 |
| B | 32 | 81.3 |
| C | 2.4 | 6.1 |
| D | 9.3 | 23.6 |
| E | 38 | 96.5 |
| F | 45 | 114.3 |
| G | 6.3 | 16 |
| H | 12 | 30.5 |



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# 350-10-8 Dual-ramp Wheelchair Platform Scale

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions Without Ramps:**
(W x L x H) 35 in x 29.5 in x 2.375 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met, E113986

**Warranty:**
Two-year limited warranty

*Model 350-10-8*



## Standard Features

- Two wheels for portability
- Dual ramp
- Non-slip platform
- Large 1-inch LCD display
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EHR capable
- USB, Bluetooth 2.0, or BLE 4.0 available, part number selectable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **141449** | 350-10-8 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,724.00 |
| **168355** | 350-10-8BT | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB and Bluetooth® 2.0 | $1,813.00 |
| **194735** | 350-10-8BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,915.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **141449** | 350-10-8 | 53 | 45 | 7 | 86 | 121 | 121 |
| **168355** | 350-10-8BT | 53 | 45 | 7 | 86 | 121 | 121 |
| **194735** | 350-10-8BLE | 53 | 45 | 7 | 86 | 121 | 121 |

## Options/Accessories

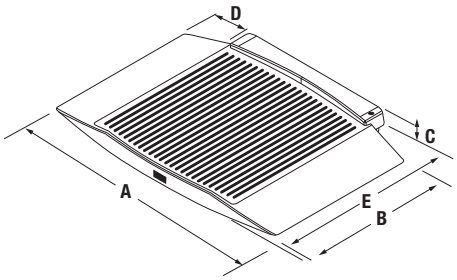
| Part # | Description | Price |
|---|---|---|
| **115655** † | 9 VDC adaptor, 120 V/230 V auto switching c-MET medical grade power supply | $33.00 |
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 48.5 | 123.2 |
| B | 32 | 81.3 |
| C | 2.4 | 6.1 |
| D | 9.3 | 23.6 |
| E | 38 | 96.5 |

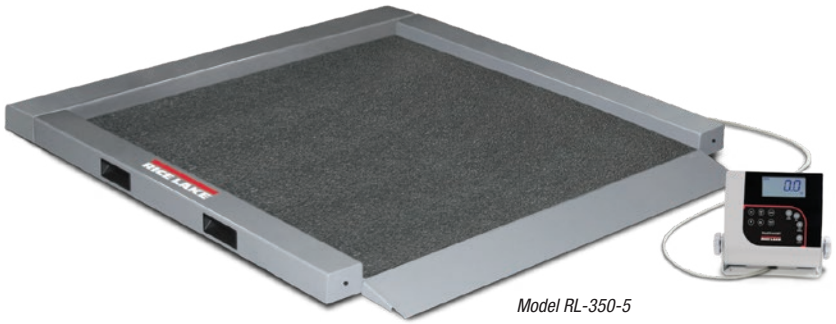




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# RL-350-5 Single-ramp Portable Bariatric Wheelchair Scale

34 Inches Wide



*Model RL-350-5*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 34 in x 34 in x 2.22 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met (pending)

**Warranty:**
Two-year limited warranty

## Standard Features

- Integrated handles and wheels for easy transport
- Single ramp
- Large, stable scale base
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- BMI (body mass index) function
- Hold function
- 10 ft cable between scale base and indicator

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150703** | RL-350-5 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,681.00 |
| **205976** | RL-350-5BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,873.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150703** | RL-350-5 | 43 | 43 | 11 | 162 | 147 | 162 |
| **205976** | RL-350-5BLE | 43 | 43 | 11 | 162 | 147 | 162 |

## Options/Accessories

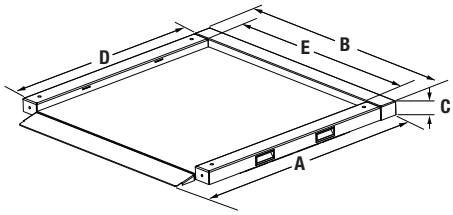
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 41 | 104.1 |
| B | 40 | 101.6 |
| C | 2.2 | 5.6 |
| D | 34 | 86.4 |
| E | 34 | 86.4 |



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# RL-350-6 Dual-ramp Portable Bariatric Wheelchair Scale

34 Inches Wide

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 34 in x 34 in x 2.22 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

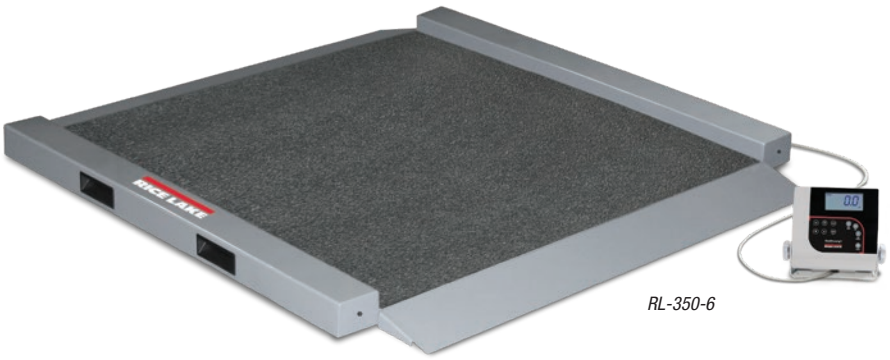
**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met (pending)

**Warranty:**
Two-year limited warranty




*RL-350-6*

## Standard Features

- Integrated handles and wheels for easy transport
- Dual ramp
- Large, stable scale base
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- BMI (body mass index) function
- Hold function
- 10 ft cable between scale base and indicator

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150704** | RL-350-6 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,681.00 |
| **205974** | RL-350-6BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,873.00 |

## Shipping Weight

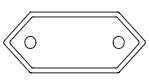
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150704** | RL-350-6 | 43 | 43 | 11 | 154 | 147 | 154 |
| **205974** | RL-350-6BLE | 43 | 43 | 11 | 154 | 147 | 154 |

## Options/Accessories

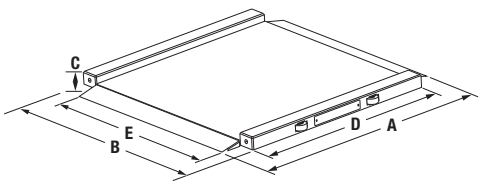
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

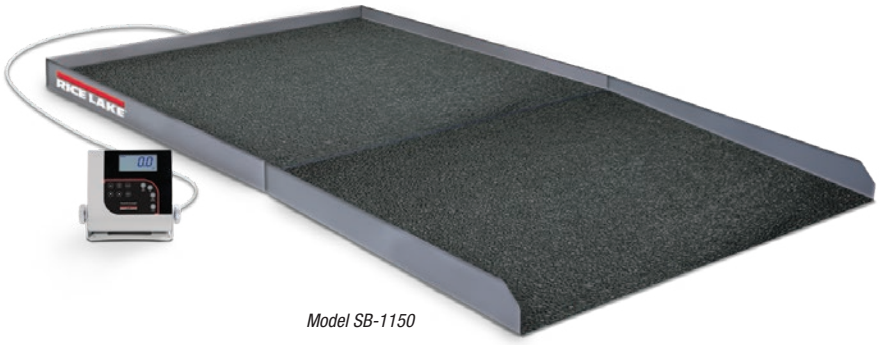
| | Inches | Centimeters |
|---|---|---|
| A | 41 | 104.1 |
| B | 40 | 101.6 |
| C | 2.2 | 5.6 |
| D | 34 | 86.4 |
| E | 34 | 86.4 |





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# SB-1150 Summit™ Bariatric Wheelchair Scale




*Model SB-1150*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 36 in x 36 in x 4 in

**Ramp Dimensions:**
(W x L x H) 36 in x 28.5 in x 4 in

**Display:**
5-digit LCD display, 0.75 in (1.9 mm) digit height

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (14° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
c-Met (pending)

## Standard Features

- Heavy-duty mild steel construction
- Single ramp
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- 10 ft cable between scale base and display

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150706** | SB-1150 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,540.00 |
| **205977** | SB-1150BLE | with Bluetooth® BLE 4.0 | $1,763.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150706** | SB-1150 | 49 | 48 | 24 | 363 | 407 | 407 |
| **205977** | SB-1150BLE | 49 | 48 | 24 | 363 | 407 | 407 |

## Options/Accessories

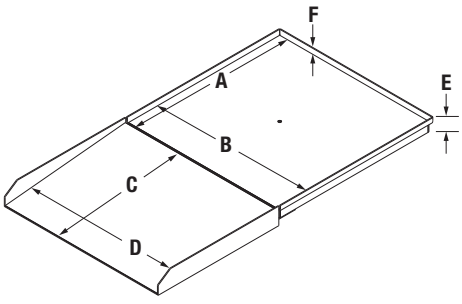
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 36 | 91.4 |
| B | 36 | 91.4 |
| C | 28.5 | 72.4 |
| D | 36 | 91.4 |
| E | 4 | 10.2 |
| F | 1 | 2.5 |



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# SD-1150-WP Dialysis Wheelchair Scale

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 36 in x 36 in x 3 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Warranty:**
Two-year limited warranty

**Approvals:**
c-Met (pending)




*Wall mounted indicator, cable enclosed in customer supplied conduit.*

*Model SD-1150-WP*

## Standard Features

- Package includes scale, pit frame, handrail and indicator
- Heavy-duty mild steel construction
- Handrail for added patient safety
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150707** | SD-1150-WP | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,781.00 |
| **205978** | SD-1150-WPBLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,962.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150707** | SD-1150-WP | 40 | 39 | 15 | 246 | 169 | 246 |
| **205978** | SD-1150-WPBLE | 40 | 39 | 15 | 246 | 169 | 246 |

## Options/Accessories

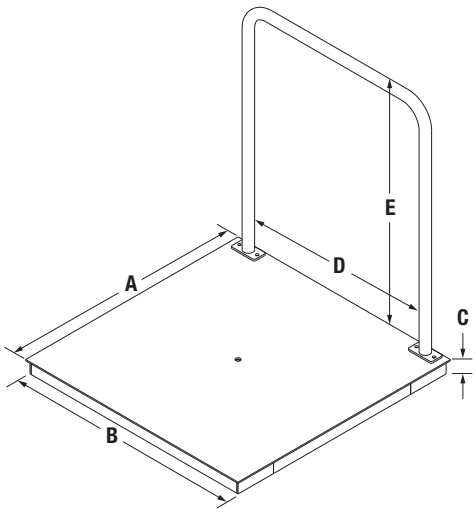
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 36 | 91.4 |
| B | 36 | 91.4 |
| C | 3 | 7.6 |
| D | 31.5 | 80.0 |
| E | 37 | 94.0 |





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# Wheelchair Scales

## Pit Frame Concrete Details

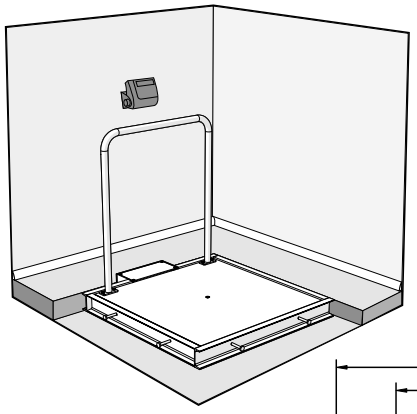
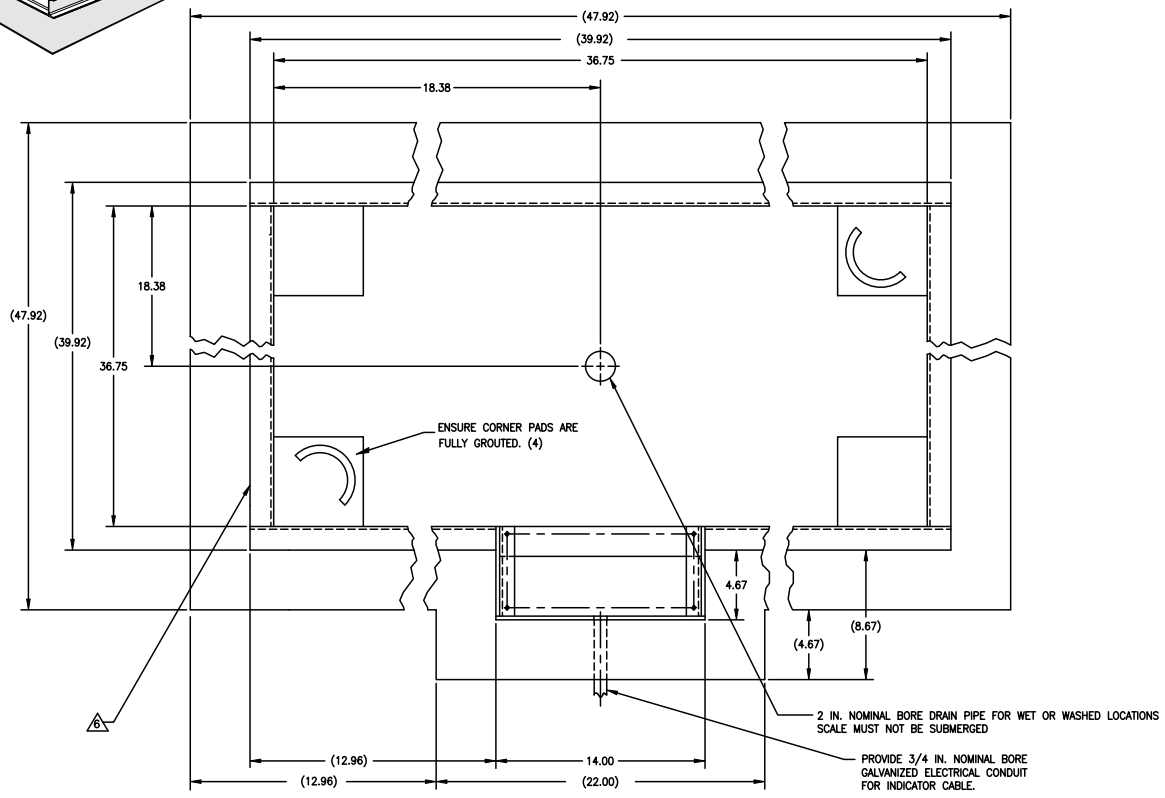
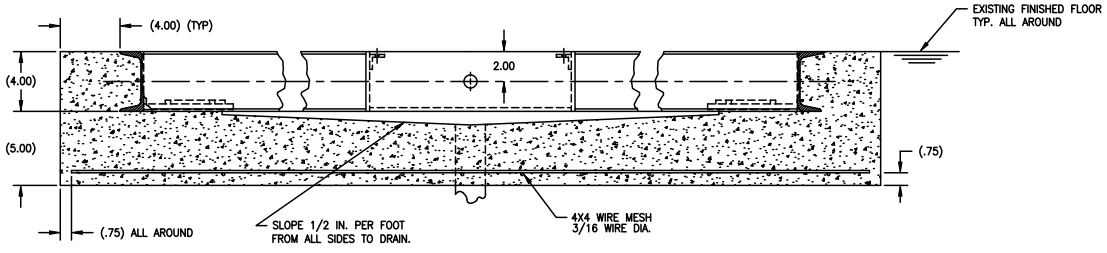


*Image illustrates pit frame exposed to show detail.*




NOTE: HANDRAIL ON SCALE WILL MOUNT ON SAME SIDE AS JUNCTION BOX POCKET




NOTE:

1. USE CONCRETE OF MINIMUM YIELD STRENGTH 5000 PSI OR 6–BAG MIX.
2. ALLOW 7 DAYS TO CURE. WET CONCRETE PERIODICALLY DURING THIS TIME.
3. DIMENSIONS SHOWN ASSUME FIRM, STABLE SOIL CONDITIONS. WHEN SOIL CONDITIONS ARE NOT ADEQUATE, PLACE FOUNDATION AT SUFFICIENT DEPTH.
4. IN WET OR WASHDOWN APPLICATIONS WE RECOMMEND THE USE OF HERMETICALLY SEALED LOAD CELLS, AND THAT THE JUNCTION BOX BE MOUNTED REMOTELY IN A DRY LOCATION.
5. WIRE MESH TO HAVE MINIMUM .75 COVER BOTTOM AND SIDES.

6 ON STAINLESS STEEL VERSIONS, TWO PIECES OF 2 INCH ANGLE WILL BE SUBSTITUTED FOR THE 4 INCH CHANNEL.



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# Monorail Scales

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**MS200**.....**874**
*Portable Monorail Scales*

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*Permanent Monorail Scales*

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# MS200

Portable Monorail Scales





## Specifications

**Construction:**
Zinc-plated steel construction, stainless steel hardware

**Load Cell Construction:**
Stainless steel

**Bridge Resistance:**
350 ohms nominal

**Rated Output:**
2 mV/V

**Nonlinearity:**
0.03% full scale

**Approvals:**
NTEP CC 90-003, Class III, nmax 1500

**Warranty:**
One-year limited

## Standard Features

- 8-in live-rail designed to weigh one trolley at a time
- 750 x .5 lb resolution in both portable and permanent models
- Available for rail sizes 3/8 x 2 1/2 in or 1/2 x 2 1/2 in
- Requires less than 41 in of straight rail to install (14 in between rail hangers for permanent model)
- Zinc-plated, steel construction
- 25 ft of load cell cable for flexible installation
- Slightly recessed live-rail for the trolley roller provides stable weighments

## APPROVALS

## Part Number/Price

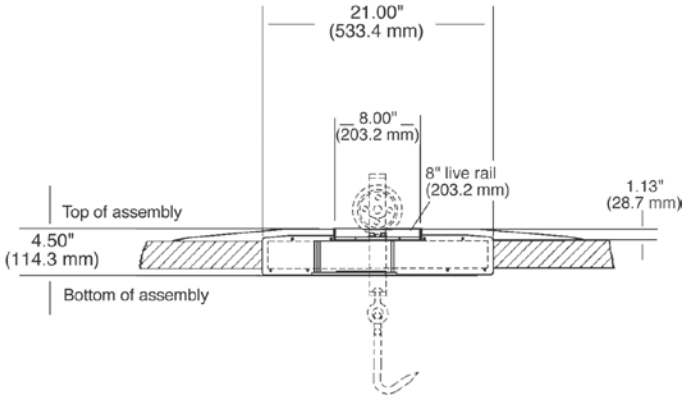
| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **19743*** | MS200HB, NTEP Certified portable | 38 lb | $2,065.00 |
| **167585** | Load cell, 500 kg 2 mv/v 350 ohm SST construction, with 25 ft of cable | 6 lb | $795.00 |

**Scale only, indicator not included*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **16984** | Additional operating manual | $5.00 |

*NOTE: If scale is not going to be moved to different locations, the MS202 permanent model is recommended for easier transfer of the load.*






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# MS202

Permanent Monorail Scales

## Specifications

**Construction:**
Zinc-plated steel construction (part number 19744, 19745)
Stainless steel construction (part number 196885, 196888)

**Load Cell Construction:**
Stainless steel

**Bridge Resistance:**
350 ohms nominal

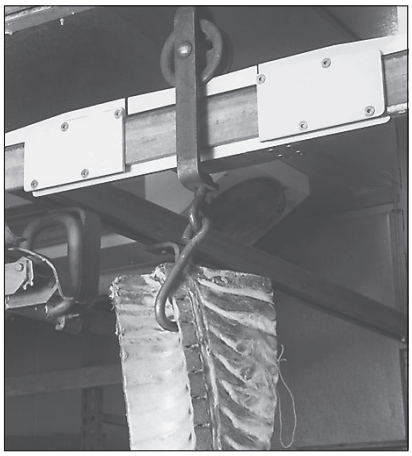
**Rated Output:**
2 mV/V

**Nonlinearity:**
0.03% full scale

**Approvals:**
NTEP CC 90-003, Class III, nmax 1500
Measurement Canada

**Warranty:**
One-year limited





## Standard Features

- 8-in live-rail designed to weigh one trolley at a time
- 750 x .5 lb resolution in both portable and permanent models
- Available for rail sizes 3/8 x 2 1/2 in or 1/2 x 2 1/2 in
- Requires less than 41 in of straight rail to install (14 in between rail hangers for permanent model)
- Zinc-plated, steel construction
- High accuracy, stainless steel load cell
- 25 ft of load cell cable for flexible installation
- Slightly recessed live-rail for the trolley roller provides stable weighments

**APPROVALS**

## Part Number/Price

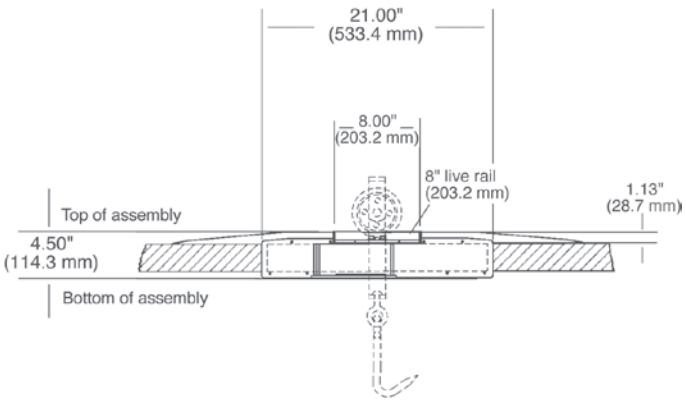
| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **19744*** | MS202HB-3/8 in, NTEP Certified permanent | 38 lb | $2,065.00 |
| **19745*** | MS202HB-1/2 in, NTEP Certified permanent | 38 lb | $2,065.00 |
| **196885** | MS202HB-SS 3/8 in, SST rail | 38 lb | $2,400.00 |
| **196888** | MS202HB-SS 1/2 in, SST rail | 38 lb | $2,400.00 |
| **167585** | Load cell, 500 kg 2 mv/v 350 ohm SST construction, with 25 ft of cable | 6 lb | $795.00 |

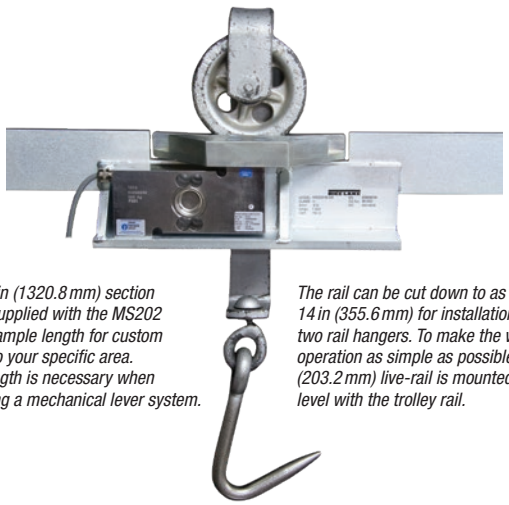
**Scale only, indicator not included*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **16984** | Additional operating manual | $5.00 |

*NOTE: If scale is not going to be moved to different locations, the MS202 permanent model is recommended for easier transfer of the load.*



*The 52 in (1320.8 mm) section of rail supplied with the MS202 allows ample length for custom fitting to your specific area. This length is necessary when replacing a mechanical lever system.*

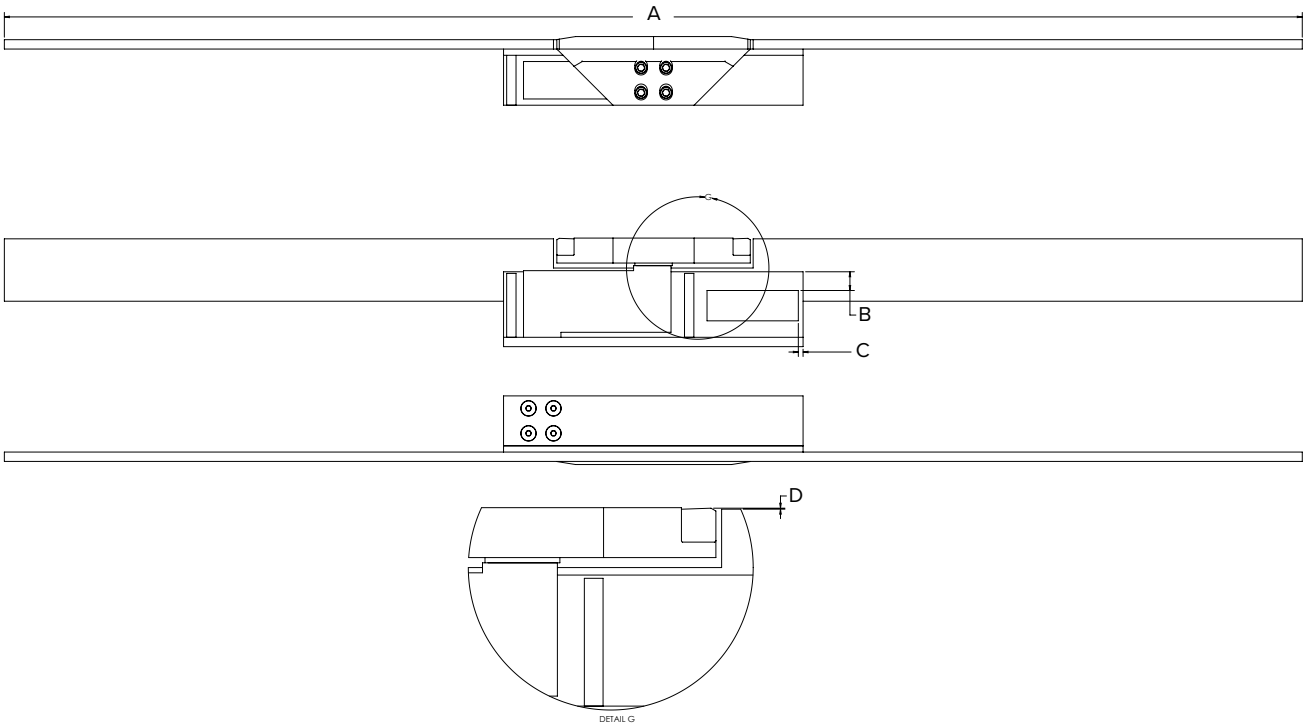
*The rail can be cut down to as short as 14 in (355.6 mm) for installation between two rail hangers. To make the weighing operation as simple as possible, the 8 in (203.2 mm) live-rail is mounted flush and level with the trolley rail.*



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# MS202

Permanent Monorail Scales




| Dimensions | |
|---|---|
| A | 52.00±.03 in |
| B | .75 in |
| C | .19 in |
| D | .060/.020 in |



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# Onboard Weighing

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*Legal for Trade Onboard Weighing System*

LOADRUNNER® ONBOARD WEIGHING SYSTEMS..... **885**
*Dump Truck Systems Kit*

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# PL Series Load Cells

## PL9000-14



The PL9000-14 is a low-profile load cell designed for onboard weighing applications with limited height. With a single-piece bearing plate and an overall profile of only 2.4 inches, the PL9000-14 is ideal for applications with four- or six-point under-body mounts and body rest mounts.

### Order Information

*Picture is a representation of actual product*

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| Static 16,500 lbs | Dynamic 10,000 lbs | **114322** | 19 lb | $725.00 |

## PL9000-14.4



The PL9000-14.4 is ideal for under-body and body rest mounts in four- or six-point system configurations. This load cell offers higher load ratings with a single-piece bearing plate and overall length of 14 inches.

### Order Information

*Picture is a representation of actual product*

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| Static 25,000 lbs | Dynamic 12,500 lbs | **115345** | 18 lb | $825.00 |

## PL9000-22



The PL9000-22 is designed for under-body mounts and low-profile axle scales such as Rice Lake's AX3040. The PL9000-22 has a 2.4-inch profile and 22.6-inch length.

### Order Information

*Picture is a representation of actual product*

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| Static 30,000 lbs | Dynamic 20,000 lbs | **111766** | 30 lbs | $1,050.00 |

## PL9000-26



The PL9000-26 is a heavy duty, shear beam load cell designed for kingpin plates and under-body mounts. Available with either a single bearing plate or two separate bearing plates, the PL9000-26 has a 2.3-inch profile and is 26 inches long.

### Order Information

*Picture is a representation of actual product*

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| Static 40,000 lbs | Dynamic 20,000 lbs | **114325** | 35 lb | $995.00 |

## PL9000-50



The PL9000-50 is designed for 5th wheel kits and spring suspension equalizer hangers. The PL9000-50 has two separate bearing plates, one on each end, and an overall profile of 2.8 inches.

### Order Information

*Picture is a representation of actual product*

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| Static 50,000 lbs | Dynamic 12,500 lbs | **114326** | 24 lb | $850.00 |

## RLD-10K



The RLD-10K double-ended shear beam load cell has a low profile and rigid mount. With a single-piece bearing plate, the overall profile is 2.5 inches. The RLD-10K is ideal for applications where suspension mounts are not suitable, profile increases don't work, or dynamic forces are present.

### Order Information

*Picture is a representation of actual product*

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| Static 10,000 lbs | Dynamic 4,000 lbs | **120959** | 6 lb | $1,200.00 |



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## PLSB-25K



The PLSB-25K is used in Rice Lake's twist-lock and stacking cone mount assemblies. This rigid mount, double-ended shear beam load cell is used when a series of mounts are not fixed to a frame at all times. The PLSB-25K can also be used in applications with dynamic forces.

### Order Information

*Picture is a representation of actual product*

| Load Rating | | Part # | Est. Weight | Price |
|---|---|---|---|---|
| Static 25,000 lbs | Dynamic 10,000 lbs | **179827** | 26 lb | $1475.00 |
| Static 25,000 lbs | Dynamic 10,000 lbs | **191898** | 26 lbs | $1535.00 |

## LOAD PIN - 2 INCH, 20K



This 2-inch load pin is used in Rice Lake's Loadrunner kits and semi trailer landing gear. This load pin can be paired with load and support collars for applications that have pivot or rotation requirements.

### Order Information

*Picture is a representation of actual product*

| Load Rating | Part # | Est. Weight | Price |
|---|---|---|---|
| 20,000 lbs | **181895** | 10 lbs | $995.00 |

*Additional details and complete specifications for onboard weighing load cells can be found online. Please consult the factory to determine the best model for your application.*





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# PL Series, Tractor-Trailer Kits

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **Complete Tractor/Trailer Air-Ride Kits** | | | |
| **114285** | PL9700-100 | Single transducer kit (tractor/trailer)<br>Kit includes: 9700, (2) air transmitter, (2) air pressure transducer, 35 ft & 80 ft truck cable, 15 ft power cable | $3,200.00 |
| **114286** | PL9700-200 | Dual transducer kit (tractor/trailer)<br>Kit includes: 9700, (2) air transmitter 2-lead, (2) dual air pressure transducer, 35 ft & 80 ft truck cable, 15 ft power cable | $3,700.00 |
| **114287** | PL9704-3202 | Three channel air transducer system<br>Kit includes: 9704, (3) air transmitter 2-lead, (3) dual air pressure transducer, (2) 35 ft & 80 ft truck cable, 15 ft power cable | $5,200.00 |
| **114288** | PL9704-4202 | Four channel air transducer system<br>Kit includes: 9704, (4) air transmitter 2-lead, (4) dual air pressure transducer, (3) 35 ft & 80 ft truck cable, 15 ft power cable | $6,900.00 |
| **114289** | PL9704A-3202 | Three channel air transducer system with auto ID indicator/transmitter<br>Kit includes: 9704A, (3) air transmitter 2-lead auto ID, (3) dual air pressure transducer, (2) 35 ft & 80 ft truck cable, 15 ft power cable | $5,400.00 |
| **114290** | PL9704A-4202 | Four channel air transducer system with auto ID indicator<br>Kit includes: 9704A, (4) air transmitter 2-lead auto ID, (4) dual air pressure transducer, (3) 35 ft & 80 ft truck cable, 15 ft power cable | $6,900.00 |
| **Half System Air-Ride Kits** | | | |
| **114292** | PL9701-200 | Dual transducer kit (tractor only)<br>Kit includes: 9700, air transmitter 2-lead LC, dual air pressure transducer, 35 ft truck cable, 15 ft power cable | $2,400.00 |
| **114294** | PL9701-200 | Dual transducer kit (trailer only)<br>Kit includes: Air transmitter 2-lead LC, dual air pressure transducer, 80 ft truck cable | $1,300.00 |
| **Half System 5th Wheel Kits** | | | |
| **114295** | PL9701-250H | Holland fixed 5th wheel kit (25,000 lb max with dead load)<br>Kit includes: 9700, dual lead transmitter, (2) 5th wheel bending beam/suspension load cell, 35 ft truck cable, 15 ft power cable, hardware | $4,400.00 |
| **168365** | – | Holland fixed 5th wheel kit with 9705 (25,000 lb max with dead load)<br>Kit includes: 9705 with auto id and selectable base, dual lead transmitter, 603-1 wireless transmitter, (5) 5th wheel bending beam/ suspension load cell, 35 ft truck cable, 15 ft power cable and hardware | $5,500.00 |
| **114296** | PL9701-250F | Fontaine fixed 5th wheel kit (25,000 lb max with dead load)<br>Kit includes: 9700, dual lead transmitter, (2) 5th wheel bending beam/suspension load cell, 35 ft truck cable, 15 ft power cable, hardware | $4,300.00 |
| **168363** | – | Fontaine fixed 5th wheel kit with 9705 (25,000 lb max with dead load)<br>Kit includes: 9705 with auto id and selectable base, dual lead transmitter, 603-1 wireless transmitter, (5) 5th wheel bending beam/ suspension load cell, 35 ft truck cable, 15 ft power cable and hardware | $5,200.00 |
| **132050** | PL9701-250J | Jost fixed 5th wheel kit (25,000 lb max with dead load)<br>Kit includes: 9700, dual lead transmitter, (2) 5th wheel bending beam/suspension load cell, 35 ft truck cable, 15 ft power cable, hardware | $4,800.00 |
| **168366** | – | Jost fixed 5th wheel kit with 9705 (25,000 lb max with dead load)<br>Kit includes: 9705 with auto id and selectable base, dual lead transmitter, 603-1 wireless transmitter, (5) 5th wheel bending beam/ suspension load cell, 35 ft truck cable, 15 ft power cable and hardware | $5,400.00 |
| **Equalizing Leaf Spring Suspension Kits** | | | |
| **114299** | PL9720-250 | Tandem axle center hanger load cell kit (25,000 lb max with dead load)<br>Kit includes: Dual lead load cell transmitter, (2) 5th wheel bending beam/suspension load cell, 80 ft truck cable, (4) bearing plates, hardware | $3,100.00 |
| **114300** | PL9720-450 | Tri-axle center hangers load cell kit (25,000 lb max with dead load)<br>Kit includes: Four-lead load cell transmitter, (4) 5th wheel bending beam/suspension load cell, 80 ft truck cable, (8) bearing plates, hardware | $5,200.00 |
| **163091** | – | Hutch center equalizer hanger for tandem/tri-axle kit<br>Kit includes: Two hangers | $2,400.00 |
| **Tandem Trailer Single-Point Suspension Kits** | | | |
| **117667** | PL9720-216 | Single-point clamp load cell kit, 40,000 lb (80,000 lb max with dead load)<br>Kit includes: Dual lead transmitter, (2) bearing plates, (2) 40,000 lb load cells,(8) bearing plates | $3,800.00 |
| **161660** | – | Single-point clamp load cell kit, 40,000 lb (80,000 lb max with dead load)<br>Kit includes: (2) 40K load cells, (4) body springs, (2) nuts, bolts and washers, bearing plates | $3,000.00 |
| **Logging Kits** | | | |
| **182971** | – | North West Short Logger Kit | $15,000.00 |
| **182972** | – | North West Long Logger Kit | $7,900.00 |
| **Indicator Kits** | | | |
| **114163** | PL9700-02 | Dual-channel indicator kit<br>Kit includes: 9700, (2) dual lead transmitter, 35 ft & 80 ft truck cable, 15 ft power cable | $2,400.00 |
| **114174** | PL9710-02 | Dual-channel indicator air kit with serial ports<br>Kit includes: 9710, 2-lead transmitter, 2-lead air transmitter | $2,800.00 |
| **114304** | PL9704-03 | Three-channel indicator air kit with serial ports<br>Kit includes: 9704, (3) 2-lead air transmitter, 35 ft & (2) 80 ft truck cables, 15 ft power cable | $3,700.00 |
| **114305** | PL9704-04 | Four-channel indicator air kit with serial ports<br>Kit includes: 9704, (4) 2-lead air transmitter, 35 ft & (3) 80 ft truck cables, 15 ft power cable | $4,100.00 |



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## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **Rigid Underbody Load Cell Kits** | | | |
| **114307** | PL9710-414.4 | Four-point indicator kit with 14.4 in load cells (50,000 lb max with dead load)<br>Kit includes: 9710, four-lead transmitter, (4) 14.4 in load cell, (4) bearing plates, (4) body coil springs, 35 ft truck cable, 15 ft power cable | $6,500.00 |
| **114308** | PL9710-614 | Six-point indicator kit with 14.4 in load cells (75,000 lb max with dead load)<br>Kit includes: 9710, six-lead transmitter, (6) 14.4 in load cell, (6) bearing plates, (8) body coil springs, anti rotation plate, 35 ft truck cable, 15 ft power cable | $8,400.00 |
| **114309** | PL9710-426 | Four-point indicator kit with 26 in load cells (50,000 lb max with dead load)<br>Kit includes: 9710, four-lead transmitter, (4) 26 in load cells, (8) bearing plates, (6) body coil springs, 35 ft truck cable, 15 ft power cable | $7,900.00 |
| **161660** | – | Single-point clamp load cell kit, 40,000 lb (80,000 lb max with dead load)<br>Kit includes: (2) 40K load cells, (4) body springs, nuts, bolts and washers, bearing plates | $3,000.00 |
| **Tipping Body/Hoist Chassis Kits** | | | |
| **118572** | – | Six-point pivot pin kit with groove lock load cells, live weigh<br>Kit includes: 9710, six-lead transmitter, 35 ft truck cable, 15 ft power cable, (4) bearing plates, (4) shear beam underbody load cells. (4) groove lock kits, (2) Labrie hinge pin kits (50,000 lb max with dead load) | $9,600.00 |
| **178831** | | Three-point roll-off kit (Galbreath) includes: 9710, two-lead transmitter, 35 ft truck cable, 15 ft power cable | $6,600.00 |
| **Air-Ride Kits** | | | |
| **114313** | PL9700-1200 | Dual transducer/transmitter air ride kit<br>Kit includes: 9700, two-lead air transmitter, air pressure transducer, 35 ft truck cable, 15 ft power cable | $2,400.00 |
| **119287** | – | GPS indicator kit<br>Kit includes: 9700/ RS-232 and GPS serial output, (2) dual lead air transmitters,<br>Wireless transceiver, wireless receiver, 35 ft truck cable, 15 ft power cable | $3,500.00 |
| **174310** | – | Smart pressure sensor | $1,300.00 |
| **Indicator Kits** | | | |
| **114176** | PL9710-04 | Four-point indicator kit with serial ports<br>Kit includes: 9710, four-lead transmitter, 35 ft truck cable, 15 ft power cable | $2,300.00 |
| **114177** | PL9710-06 | Six-point indicator kit with serial ports<br>Kit includes: 9710, six-lead transmitter, 35 ft truck cable, 15 ft power cable | $2,400.00 |
| **171429** | – | In-cab display, single channel serial ports and load/deliver shrink calc software | $1,095.00 |
| **174778** | – | In-cab display, dual channel with 10 key pad | $2,500.00 |





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# TradeRoute™ HL Series

Legal for Trade Onboard Weighing System



*Double-double Assembly*

## Standard Features System

**Legal for Trade Onboard System Includes:**

- 3- or 4-point onboard system RL20000 load cell with 20 ft cable, IP67
- 80-ft conduit cable
- Magnetic transport alarm sensor with 15 ft cable
- JB4SS junction box
- Hydraulic line locks and hoses
- 920i® Onboard Weigh Center
- Hydraulic pump not included
- Minimum 3,000 PSI recommended to maintain 2,200 PSI during lift

**Approvals:**

- NTEP CC 15-102
- Measurement Canada AM-4847

**920i Onboard Weigh Center:**

- Epson® TM-U295 printer with splash shield
- Pre-installed 30 ft power cable, 30 ft load cell cable and inclinometer
- Transport alarm LEDs
- Power switch
- Start/End switch
- Waterproof enclosure
- Vibration mounts
- Mounting bracket to body not included

**920i USB Universal with Onboard Software:**

- RS-232 port for connecting to ticket printer
- Standard onboard software
- USB interface board only

**USB Interface Functions:**

- Available upon special request using a Type A sealed connection
- USB interface card on Port 2
- Supports weigh mode and configuration mode functions
- Supports upload of databases and 920i configuration file
- Supports download of databases, 920i configuration file, iRite®, COD file and firmware file
- Sanity checks for command errors
- Create STD database files

**Flash Drives:**

- Supports USB 2.0 (optional)
- Create subdirectories by unit ID and database name
- Use the root directory for generic files

### Approvals

## Specifications: 920i® USB Indicator

**Power:**
DC voltage: 9-36 VDC,
Consumption 25 W

**Excitation Voltage:**
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

**Analog Signal Input Range:**
-10 mV to +45 mV

**Analog Signal Sensitivity:**
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation typical at 120 Hz
4.0 µV/graduation typical at 960 Hz

**A/D Sample Rate:**
7.5 to 960 Hz, software selectable

**Resolution:**
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

**System Linearity:**
± 0.01% full scale

**Digital I/O:**
Six I/O channels on CPU board; optional 24-channel I/O expansion boards available

**Circuit Protection:**
RFI, EMI, ESD protection

**Serial Ports:**
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: USB Type A and Type B connectors
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

**Display (W x H):**
4.6 x 3.4 in (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

**Keyboard:**
27-key membrane panel, tactile feel

**Operating Temperature:**
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

**Weight:**
45 lb, weigh center

**Rating/Material:**
NEMA Type 4X/IP66, stainless steel

**Warranty:**
Two-year limited warranty

**Indicator Approvals:**
NTEP CC 01-088, Class III/IIIL 10,000d
Measurement Canada AM-5426, Class III/III HD 10,000d
OIML UK 2658, 6,000/10,000
CE marked
UL & C-UL listed (Universal, Deep and Wall Mount Enclosure)



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*Single Assembly*




*Double Assembly*

## Specifications
## RL2000I S-Beam Load Cell

**Full Scale Output:**
3.0 mV/V

**Output Resistance:**
350 (± 3) ohms

**Input Resistance:**
385 (± 5) ohms

**Material/Finish:**
High-alloy steel, nickel plated

**Temperature:**
Compensated range
14°F to 104°F (-10°C to 40°C)

**Seal Type:**
Environmentally sealed, IP67

**Safe Overload:**
150% Full scale

**Rated Excitation:**
10 V DC (15 V maximum)

**Nonlinearity:**
0.03% Full scale

**Hysteresis:**
0.02% Full scale

**Insulation Resistance:**
5,000 megohms

**Cable Length:**
20 ft (6.1 m)

**Cable Diameter:**
0.200 polyurethane jacket

**Cable Color Code:**
Red + Excitation
Black – Excitation
Green + Signal
White – Signal

**Warranty:**
Two-year limited warranty

**Approvals:**
cFMus
NTEP

## Specifications
## JB4SS Junction Box

**Cable Fittings:**
PN 88956:
(4) PG7 0.118-0.255 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent™ breather vent
PN 107700:
(4) PG9 0.138-0.315 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent™ breather vent

**Enclosure:**
Stainless steel NEMA Type 4X

**Connectors:**
Spring clamp screwless, 12-28 AWG

**Trimming:**
Individual cell, signal trim, ranges zero trim 12.49 K-100 K ohms with 2.49 K ohms isolation resistors

**Potentiometers:**
100,000 ohms, 25 turn cermet

**Circuit Board:**
3.8. x 2.3 in. (96.5 x 58.4 mm), with conformal coating

**Warranty:**
One-year limited warranty

## Specifications
## Epson® TM-U295 Printer

**Print Speed:**
1.9 to 2.3 lines per second (5 x 7 character, 3 dot line spacing)

**Column Capacity:**
35/42 columns

**Characters Per Line:**
35 standard font

**Print Area:**
2.59 in W (65.8 mm W)

**Character Formation:**
5 x 7 and 7 x 7 dot matrix

**Character Height:**
0.11 standard font

**Print Head Life:**
Approximately 100 million strokes/pin

**Form Thickness:**
Single-ply - 0.003 in to 0.009 in
Copy paper - 0.003 in to 0.014 in

**Ribbon:**
Cassette-type purple ribbon. Ribbon life is approximately 1.5 million characters (continuous prints). Black ink also available.

**Approvals:**
UL listed, CSA certified, CE marked

**Warranty:**
One-year limited warranty (includes print head)





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# TradeRoute™ HL Series

Legal for Trade Onboard Weighing System

## Part Number/Price

| Part # | Model # | Description | Price |
|---|---|---|---|
| **Complete System** | | | |
| **131098** | – | 15,000 lb x 5 lb/8,000 x 2 kg 3-point onboard system (Class III), qty one each OB5-SGL5, OB10-DBL5, 920i® Weigh Center | $12,900.00 |
| **131099** | – | 20,000 lb x 5 lb/10,000 x 2 kg 4-point onboard system (Class III/IIIL), qty two OB10-DBL5, qty 1, 920i Weigh Center | $15,700.00 |
| **131100** | – | 30,000 lb x 10 lb/15,000 x 5 kg 3-point onboard system (Class III), qty one each OB10-SGL10, OB20-DBL10, 920i Weigh Center | $14,100.00 |
| **131101** | – | 40,000 lb x 10 lb/20,000 x 5 kg 4-point onboard system (Class III) qty two OB20-DBL10 qty 1, 920i Weigh Center | $15,700.00 |
| **Consult** | – | 20,000 kg x 5 kg 3-point onboard system (Class III) qty one each, OB15-SGL105, OB30-DBL15, 920i Weigh Center | $16,095.00 |
| **131103** | – | 60,000 lb x 10 lb/30,000 x 5 kg 4-point onboard system (Class IIIL/IIIHD) qty two, OB30-DBL15, qty 1, 920i Weigh Center | $17,600.00 |
| **Consult** | – | 50,000 lb kit x 10 lb/30,000 x 5 kg 4-point onboard system (Class III/IIIL), qty two, OB30-DBL15, JB4SS, 30 ft homerun cable, 60 ft conduit, power cable (PN 127958 with PN 155300) | Consult |
| **Consult** | – | 60,000 lb kit x 10 lb/30,000 x 5 kg 4-point onboard system (Class III/IIIL), qty two, OB30-DBL15, JB4SS, 30 ft homerun cable, 60 ft conduit, power cable (PN 127958 with PN 155300) | Consult |
| **Weighing Module Assembly Kits (indicator package required)** | | | |
| **154125** | – | 20,000 lb x 5 lb/10,000 x 2 kg 4-point onboard system (Class III/IIIL), qty two, OB10-DBL5, JB4SS, 30 ft homerun cable, 60 ft conduit, power cable | $10,900.00 |
| **154124** | – | 40,000 lb x 10 lb/20,000 x 5 kg 4-point onboard system (Class III/IIIL), qty two, OB20-DBL10, JB4SS, 30 ft homerun cable, 60 ft conduit, power cable | $10,900.00 |
| **154122** | – | 60,000 lb x 10 lb/30,000 x 5 kg 4-point onboard system (Class III/IIIL), qty two, OB30-DBL15, JB4SS, 30 ft homerun cable, 60 ft conduit, power cable | $12,900.00 |
| **Consult** | – | 50,000 lb kit x 10 lb/30,000 x 5 kg 4-point onboard system (Class III/IIIL), qty two, OB30-DBL15, JB4SS, 30 ft homerun cable, 60 ft conduit, power cable (PN 127958 with PN 155300) | Consult |
| **Consult** | – | 60,000 lb kit x 10 lb/30,000 x 5 kg 4-point onboard system, qty two, OB30-DBL15, JB4SS, 30 ft homerun cable, 60 ft conduit, power cable (Class III/IIIL) (PN 127958 with PN 155300) | Consult |
| **System Components** | | | |
| **131442** | – | 920i® Weigh Center package includes: indicator, Epson® Ticket Printer, 25 ft load cell cable, power cable, housing, vibration mounts for installation to customer supplied mounting bracket | $4,800.00 |
| **154109** | – | In-cab indicator 920i (requires 154112, 154111 and printer) | $3,400.00 |
| **154112** | – | In-cab LED alarm assembly, 8 ft cable | $110.00 |
| **154111** | – | Inclinometer, junction box assembly, 35 ft cable | $650.00 |
| **65635** | – | Epson TM-U295 printer | $595.00 |
| **131811** | – | Optional LED cab alarm, 35 ft | $120.00 |
| **15494** | EL146HE | Four conductor hostile environment load cell cable | $1.65/ft |
| **88956** | JB4SS | JB4SS signal trim j-box with PG37 cord grips | $250.00 |
| **128123** | – | Conduit, 1/2 in non metallic liquid tight polytuf® | $12.00/ft |
| **127617** | | Retrofit kit 10,000 lb eyebolts for 1 cell | $350.00 |
| **128670** | 0B5-SGL5 | Low profile 5,000 lb single assembly | $3,500.00 |
| **128666** | 0B10-DLB5 | Low profile 10,000 lb double assembly | $4,400.00 |
| **127956** | 0B10-SGL10 | Low profile 10,000 lb single assembly | $3,500.00 |
| **127958** | 0B20-DBL10 | Low profile 20,000 lb double assembly | $4,400.00 |
| **127959** | 0B30-DBL15 | Low profile 30,000 lb double assembly | $6,100.00 |
| **155300** | | Low profile 30,000 lb single tandem assembly | $7,400.00 |
| **130107** | Packaging | Double/double packaging | $110.00 |

*Note: Connect to your existing hydraulic pump with a maximum pressure of 3,000 PSI with a minimum flow of 5 GPM for best performance of lifting speed.*
*Note: Contact factory for other capacities not shown.*



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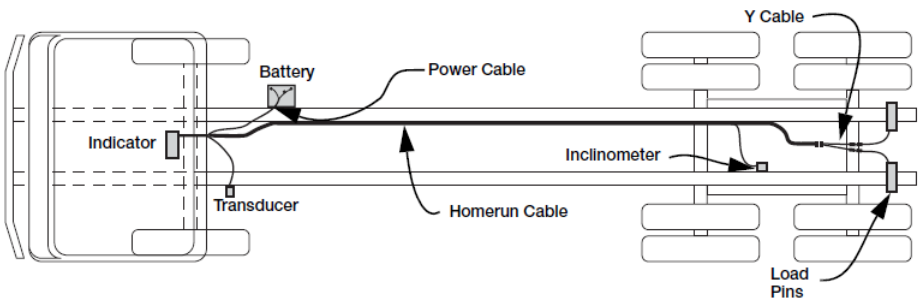
# Loadrunner® Onboard Weighing Systems

## Dump Truck Systems Kit



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **System** | | |
| **158195** | Dump truck system with 2-inch load pins, indicator, cables and hardware | $4,900.00 |






*OB-350 Indicator, PN 131219*



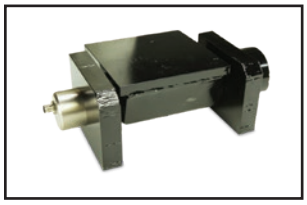
*Hydraulic Transducer, PN 131211*



*Dump Truck Load Pin, PN 181895*



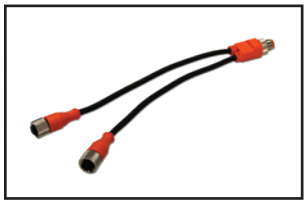
*Onboard Inclinometer, PN 131222*



*Dump Truck Hardware Kit*



*Power Cable, PN 131221*



*Y-Splitter Cable, PN 131226*



*Homerun Cable, PN 131228*

*Compatibility note: The Loadrunner dump truck kit has been designed for use on dual pin hinge pivot type dump bodies only. For dump truck body rear pivot assemblies using a single hinge bar, contact Rice Lake.*





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# Pipe Lever Scales

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# Pipe Lever Scale





*Custom sizes fit your tank/hopper system for fewer modifications and less installation time.*

## Specifications

**End Load Capacity:**
100% full scale

**mV/V Output:**
1.50 - 1.87 mV/V nominal

**Cable Length:**
20 ft (6.1 m)

**Warranty:**
One-year limited warranty

**Approvals:**
NTEP CC 94-126 Model PLS-XXYY-ZZK Class III/IIIL, 5000
Measurement Canada Approved, AM-5114, Legal For Trade on sizes greater than 1.6 m, or a capacity greater than 10,000 kg

## Standard Features

- NTEP Certified and Measurement Canada Approved models available
- RL20000 alloy steel load cell standard (prices include load cell and ITCM load cell assembly)
- Mild steel construction, black paint finish
- Stainless steel, hermetically sealed load cells available
- Custom sizes and capacities available from 5,000 lb - 60,000 lb

## APPROVALS

## Part Number/Price

| Part # | Dimensions | Est. Weight | Price |
|---|---|---|---|
| **25,000 lb** | | | |
| **29587** | 62 5/8 in x 62 5/8 in | 532 lb | $3,495.00 |
| **29586** | 60 1/2 in x 66 in | 528 lb | $3,495.00 |
| **29588** | 66 1/2 in x 91 in | 640 lb | $3,495.00 |
| **29589** | 64 in x 64 in | 538 lb | $3,495.00 |
| **35008** | 62 in x 92 in | 561 lb | $3,495.00 |
| **35009** | 62 in x 105 in | 720 lb | $3,495.00 |
| **40409** | 72 in x 72 in | 618 lb | $3,495.00 |
| **83433** | 64 3/4 in x 64 3/4 in | 567 lb | $3,495.00 |
| **25,000 lb Stainless Steel** | | | |
| **46264** | 62 5/8 in x 62 5/8 in | 405 lb | $7,995.00 |
| **46265** | 60 1/2 in x 66 in | 550 lb | $7,995.00 |
| **46266** | 66 1/2 in x 91 in | 610 lb | $7,995.00 |
| **50172** | 64 in x 64 in | 550 lb | $7,995.00 |
| **50173** | 62 in x 92 in | 680 lb | $7,995.00 |
| **50174** | 62 in x 105 in | 720 lb | $7,995.00 |
| **40,000 lb** | | | |
| **39152** | 5 ft x 5 ft | 1,885 lb | $8,095.00 |
| **39153** | 6 ft x 6 ft | 1,975 lb | $8,095.00 |
| **39154** | 7 ft x 7 ft | 2,220 lb | $8,095.00 |
| **39155** | 8 ft x 8 ft | 2,310 lb | $8,095.00 |
| **39156** | 9 ft x 9 ft | 2,545 lb | $8,095.00 |
| **39157** | 10 ft x 10 ft | 2,635 lb | $8,095.00 |
| **50,000 lb** | | | |
| **39158** | 5 ft x 5 ft | 2,010 lb | $8,095.00 |
| **39159** | 6 ft x 6 ft | 2,120 lb | $8,095.00 |
| **39160** | 7 ft x 7 ft | 2,385 lb | $8,095.00 |
| **39161** | 8 ft x 8 ft | 2,495 lb | $8,095.00 |
| **39162** | 9 ft x 9 ft | 2,750 lb | $8,095.00 |
| **39163** | 10 ft x 10 ft | 2,860 lb | $8,095.00 |



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# Pipe Lever Scale Questionnaire

Please complete and fax this form to Rice Lake Weighing Systems for pricing. Fax: (715) 234-6967

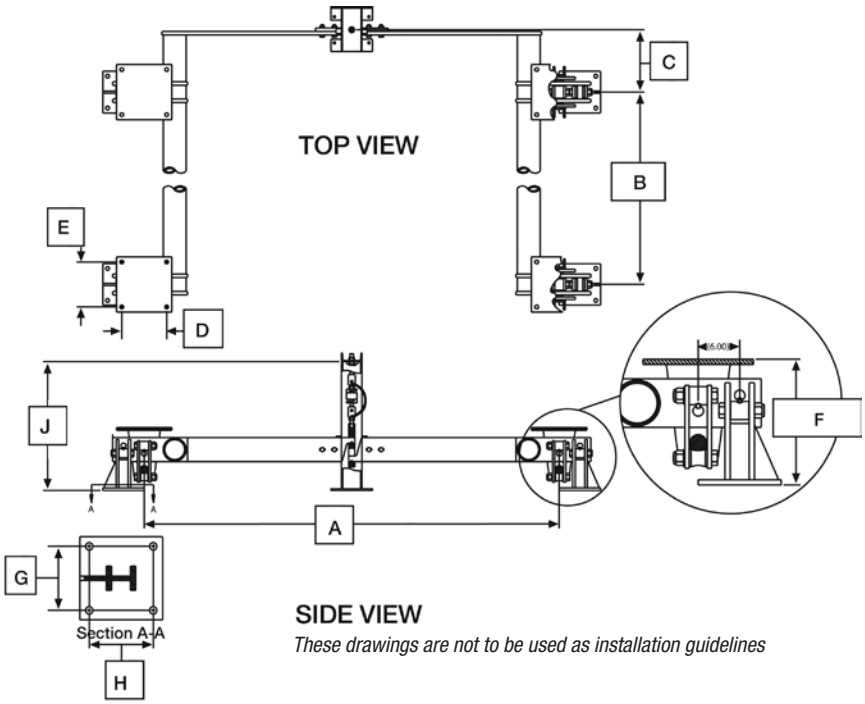
Company _____

Name _____ Date _____

Phone _____ Fax _____ Email _____

| | 5K/10K Total Load* | | 25K Total Load* | | 30K Total Load* | | 40K/60K Total Load* | |
|---|---|---|---|---|---|---|---|---|
| | Standard | Minimum | Standard | Minimum | Standard | Minimum | Standard | Minimum |
| A | – | 48.00 in | – | 48.00 in | – | 60.00 in | – | 60.00 in |
| B | – | 48.00 in | – | 48.00 in | – | 60.00 in | – | 60.00 in |
| C | 12.25 in | 4.50 in | 15.50 in | 7.00 in | 15.62 in | 7.00 in | 18.00 in | 7.00 in |
| D | 6.00 in | 6.00 in | 9.50 in | 8.75 in | 9.50 in | 8.75 in | 13.00 in | 12.00 in |
| E | 6.00 in | 6.00 in | 9.50 in | 8.75 in | 9.50 in | 8.75 in | 13.00 in | 12.00 in |
| F | 8.62 in | 8.62 in | 13.56 in | 13.56 in | 13.81 in | 13.81 in | 18.18 in | 18.18 in |
| G | 4.50 in | 3.50 in | 6.50 in | 4.75 in | 6.50 in | 4.75 in | 9.25 in | 6.50 in |
| H | 4.50 in | 3.50 in | 6.50 in | 4.75 in | 6.50 in | 4.75 in | 9.25 in | 6.50 in |
| J | 24.00 in | 24.00 in | 32.25 in | 32.25 in | 32.25 in | 32.25 in | 37.25 in | 37.25 in |
| | *A x B must be equal to or less than 64 square feet. If, over consult factory.* | | *A x B must be equal to or less than 100 square feet. If, over consult factory.* | | *A x B must be equal to or less than 100 square feet. If, over consult factory.* | | *A x B must be equal to or less than 100 square feet. If, over consult factory.* | |

** Live and dead load*




*These drawings are not to be used as installation guidelines*

| | |
|---|---|
| A | |
| B | |
| C | |
| D+ | |
| E+ | |
| F | |
| G** | |
| H** | |
| J | |

*** Stand hole dimensions +Chair hole dimensions.*

Capacity: ❑5K ❑10K ❑25K ❑30K ❑40K ❑50K ❑60K

Material: ❑Stainless Steel ❑Mild Steel

NTEP Required: ❑Yes ❑No

Finish: _____

Load Cell: ❑Mild Steel Model_____ ❑Stainless Steel Hermetically Sealed Model_____

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# Power Conditioning

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*Uninterruptible Power Supply (UPS)*



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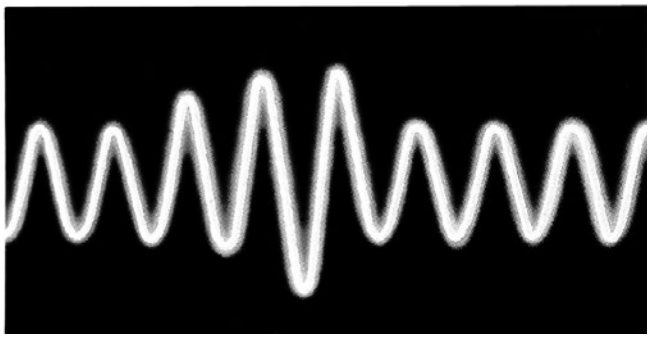
# Selecting the Best Power Conditioning Devices/Equipment for Your Application

Digital weighing indicators utilize an incredibly small signal in their operation. These signals are easily disturbed by any number of voltage distortions. Additionally, many weighing systems are now designed with a complex array of peripheral equipment, including printers and computers. To maintain proper operation and provide maximum protection, Rice Lake Weighing Systems offers a wide variety of power conditioning products as your first line of defense in the battle to improve power problems.

The following is a list of power problems you are likely to experience, with a reference to the equipment we recommend to solve each problem. A “quick reference” power conditioning equipment chart is also included for your convenience.

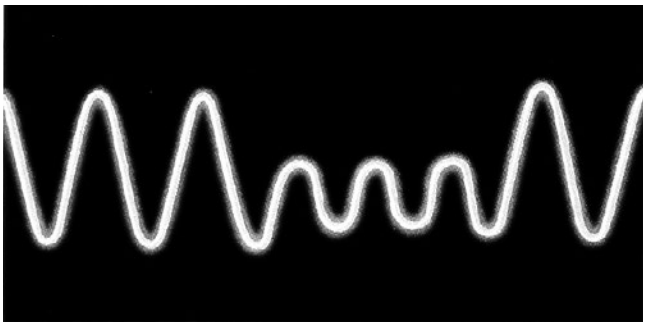
## Voltage Surge

A voltage surge is a temporary rise in voltage level lasting at least one AC cycle (1/60 second). They are typically caused by switching off high-power electric motors (electric welders, compressors, machine tools, conveyors, material handling equipment and power tools), momentarily boosting the line voltage. Regulation of the line to an acceptable voltage level is required to prevent the damage caused by voltage surges. The SOLA MCR series of voltage regulators, MCR070, MCR150 and MCR250, are designed to keep the voltage level within acceptable and harmless limits.



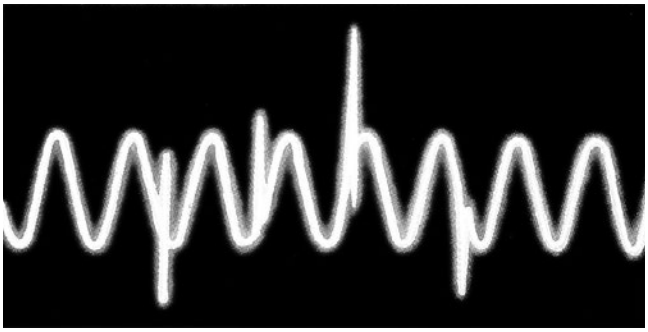
## Voltage Dip

A voltage dip is the opposite of a voltage surge, lasting at least one AC cycle (1/60 second). They are typically caused by a sudden nearby increase in an electrical load, such as turning on high-power electrical motors (electric welders, compressors, machine tools, conveyors, material handling equipment and power tools). During this time, every other piece of operating equipment is forced to operate with the reduced available voltage. Regulation of the line voltage is required to remedy this situation. The SOLA MCR series of voltage regulators, MCR070, MCR150 and MCR250, solve your problem by temporarily boosting the line voltage to within acceptable limits until the voltage dip condition has corrected itself.



## Voltage Spikes

A voltage spike is a large, damaging voltage pulse caused when lightning strikes a powerline, communications line, signal or sensing line, or even the nearby ground. Voltage spikes last only a few milliseconds, but can reach a potential of 1,000 volts. High-quality protection is the only practical answer. For your load cells, RS-232 or 20 mA communication lines and other DC protection needs, the UJB3T6, LCP-1 and TP-75 are practical solutions. For line-powered equipment, the Tripp-Lite ISOBLOK® and ISOBAR® or Rice Lake's EL225 or EL226 are the most effective protection against voltage spikes.

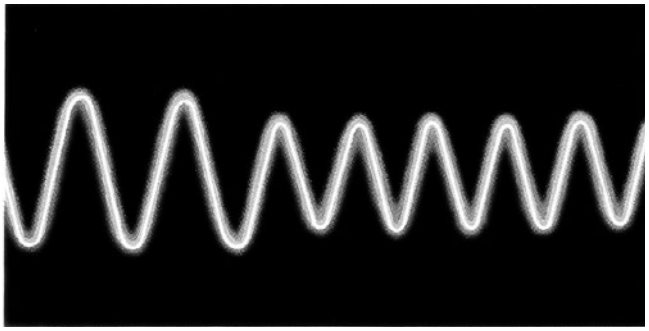




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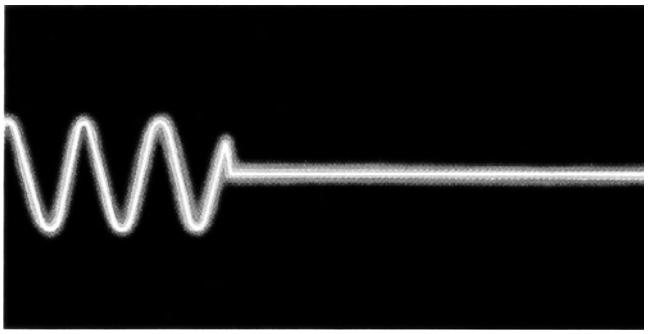
## Brownouts

Brownouts are prolonged voltage dips of as much as 15 percent, lasting from several hours to several days. This condition is initiated by local power companies during hours of unusually high demands. Brownouts create many forms of abnormal behavior. The only way to safeguard the operation of critical equipment is to bring the powerline voltage back up to normal specifications. The SOLA MCR series of line voltage regulators, MCR070, MCR150 and MCR250; or the Sola SK Series, the Liebert or Eaton uninterruptible power systems can eliminate the problems associated with brownout conditions.



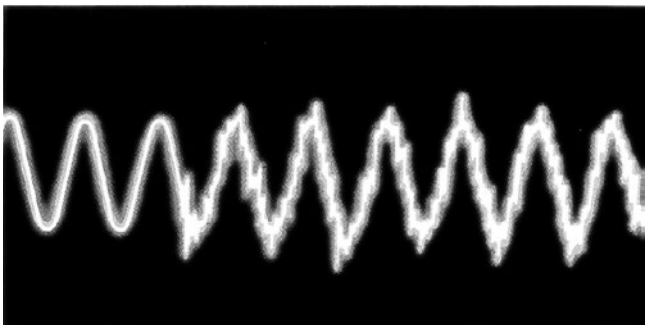
## Blackouts

The ultimate power problem! The only way to keep critical electrical equipment running during a blackout is to provide a new supply of power either from batteries or generators. The Liebert PSA uninterruptible power system is our answer for battery-supplied electrical power.



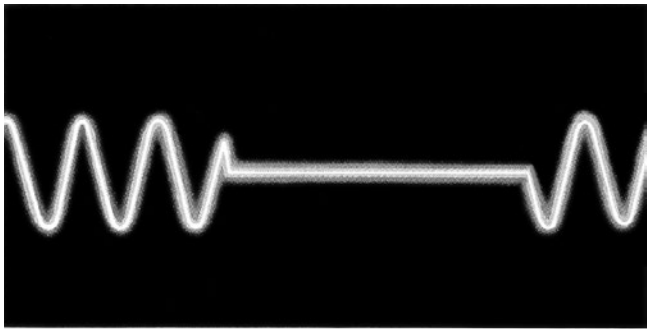
## Electrical Noise

Noise is a disturbance of electrical power caused by distant lightning, radio transmitters, welding equipment, electrical switching equipment and poor brush contact on motors and other electronic devices utilizing switching power supplies. One solution is to prevent noise from entering the equipment by filtering the powerline input. The Tripp-Lite ISOBLOK and ISOBAR, or Rice Lake's EL225 or EL226 will effectively filter most electrical noise problems. In severe cases, the use of uninterruptible power systems such as Liebert PSA and Sola S1K Series are recommended.



## Dropouts

A dropout is a temporary loss of electrical power normally caused by utility and maintenance switching functions where break-before-make switching strategies are used. This simply means the old source of power is disconnected momentarily prior to the connection of the new power source. Your local utility company may be the most common source of this type of disturbance, causing many problems—notably computer lockups, software errors, equipment resets and diagnostic self-tests. The SOLA MCR series of regulators; MCR070, MCR150 and MCR250 are available to deal with short-term dropouts (less than three milliseconds). For longer-lasting protection, Liebert PSA and Sola SK Series uninterruptible power systems are recommended.







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# Transient Protection AC, DC, Series and Parallel

## AC Protection

AD protection is designed to filter voltage spikes and electrical noise from AC wall receptacles providing power to sensitive microprocessor-based equipment such as computers, printers and indicators. Clamping voltages typically are set to 140 volts AC rms and peak current handling capacities are near 6,000 amperes.

## DC Protection

DC protection is designed to filter voltage spikes and electrical noise from load cell cables, and both RS-232 and 20 milliamp serial communication lines protecting indicators, communications interfaces and computers.

## Parallel Protection

Parallel protection is provided by “diverting” or “bypassing” elements that attempt to quickly change the direction of the voltage spike, typically toward earth ground. Examples of “diverting” type elements are gas tubes, MOVs and Transzorbs™. In a parallel-type transient protector, the equipment to be protected is not removed from the line in the event of a protector damaging voltage spike, leaving the possibility of a second catastrophic voltage spike to enter the unprotected equipment.

## Series Protection

Series protection is provided by “blocking” type elements that buffer the equipment to be protected from the line voltage available at the wall receptacle. Examples of “blocking” type protective elements that are used in series-type transient protectors are fuses, circuit breakers, common mode coils and inductors. In addition, series-type protectors will utilize “diverting” elements used in parallel protectors. In the series type of transient protector, the equipment to be protected is generally removed from the line source in the event of a damaging transient or surge.

Rice Lake Weighing Systems endorses only series type AC and DC transient protectors. The additional performance and protection they provide are substantial compared to parallel type counterparts.

## A Message About Grounds...

A good ground is essential for any successful transient protection scheme. However, simply driving a copper ground rod is not enough. The conductivity of the soil can vary seasonally, particularly if the local water table rises and falls with the season. An adequate ground in spring, when the water table is high, may not be adequate in late summer when the water table is low (and thunderstorms are common). Check the resistivity of your ground regularly throughout the year. If problems appear, check with your local utility about alternate grounding techniques.

| Type of Disturbance | AC Line Disturbance Solutions | | | |
|---|---|---|---|---|
| | TRANSIENT PROTECTORS | VOLTAGE REGULATORS | UNINTERRUPTIBLE POWER SYSTEMS | |
| | ISOBLOK/ISOBAR Our Best - EL225, EL226 | MCR Series | Sola Series | Leibert |
| SURGE | * | ✓ | ✓ | ✓ |
| DIP | | ✓ | ✓ | ✓ |
| BROWNOUT | | ✓ | ✓ | ✓ |
| DROPOUT | | ✓ | ✓ | ✓ |
| BLACKOUT | | | ✓ | ✓ |
| SPIKES | ✓ | | ✓ | ✓ |
| NOISE EMI/RFI | ✓ | | ✓ | ✓ |

** Will provide some protection against surges; however, we recommend that transient protectors be used on lines where spikes, noise and interference occur.*

## Our Policy

Rice Lake Weighing Systems recommends the installation of AC and/or DC transient protection, which is effective in significantly reducing both the frequency and degree of damage caused by AC and/or DC transient voltage occurrences. However, transient protection devices will not eliminate all damage caused by transient voltage. Rice Lake Weighing Systems does not warrant or guarantee any transient protection device against damage or repair or any scale-related or other electrical/electronic device, which is intended to be protected by any transient protection device. No other warranty or guarantees—express or implied—contrary to this written policy are supported or acknowledged by Rice Lake Weighing Systems.



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## Specifications

**Clamping Voltage (Stage One):**
72 V DC minimum, 108 V DC maximum

**Series Resistance (Stage Two):**
2.7 ohm

**Clamping Voltage (Stage Three):**
14.3 V minimum, 15.7 V maximum

**Temperature:**
Operating Range: 0°F to 122°F (-18°C to 50°C)

**Clamping Time:**
Less than 5 x 10-9 seconds

**Connectors:**
Five-position terminal blocks

**Dimensions:**
Approximately 4.5 L x 3.3 W x 1.8 in H (114.3 L x 83.8 W x 45.7 mm H)

**Weight:**
Approximately 0.42 lb (0.19 kg)

**Approvals:**
CE marked

**Warranty:**
One-year limited warranty




## Standard Features

- Two metal mounting brackets
- Three stages of protection: Gas discharge tube, series resistor and transient voltage suppressor (TVS)
- Two terminal posts for ground
- RS-232 high energy surge protector
- Terminal blocks for transmit, receive, request to send, clear to send and signal ground
- Safe for use with computers and PLCs

**Approvals**

CE

## Applications

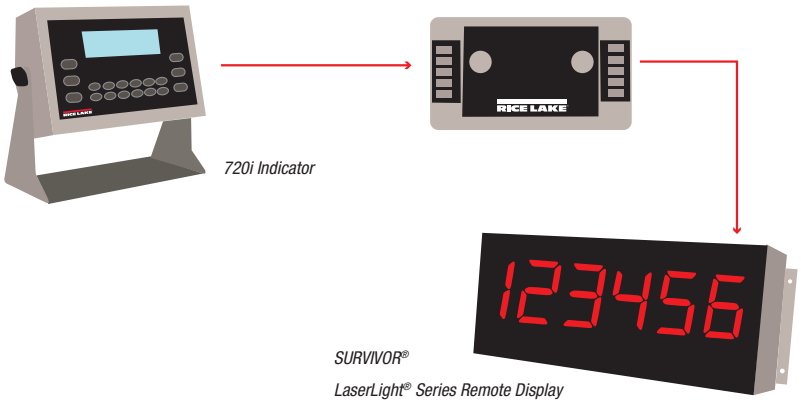
- Indicators
- Remote displays
- Printers
- Computers
- PLC

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **69201** | RS-232 transient serial protection TP232 high energy surge protector | 1.0 lb | $175.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **17778** | 12 in ground strap, copper braid | $14.00 |
| **17781** | 24 in ground strap, copper braid | $18.00 |
| **69516** | Additional installation manual | $6.00 |




*720i Indicator*

*SURVIVOR®*
*LaserLight® Series Remote Display*





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# Tripp-Lite DNET1

Ethernet Surge Suppressor



## Standard Features

- RJ45 input and output connections
- Five inch Ethernet patch cable enables ideal protection placed as close as possible to the point of use
- Six inch heavy gauge lead connects to designated grounding lugs on protected equipment
- Surge suppression utilizing high speed avalanche diodes divert excess energies on the network to ground

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **72682** | DNET1 Ethernet surge suppressor | 1 lb | $40.00 |

## Specifications

**Interface Type:**
RJ45

**Application:**
100 Base-T, 10 Base-T, Token Ring, AS400/Sys3x, RS-422. Ideal for NICs, terminals, hubs, MAUs, LAN equipment. RJ11/45-compatible. RJ45 cable included

**Lines Protected:**
1-8

**Peak Pulse Clamping Voltage:**
7.5 V

**Maximum Current:**
750 amps

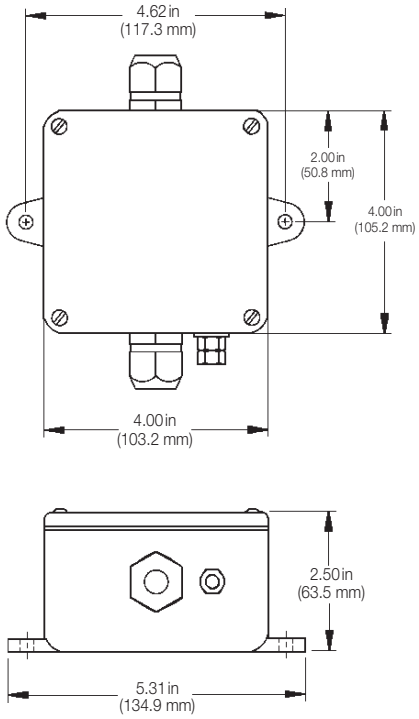
**Shunt Capacitance:**
<40 µF

**Warranty:**
One-year limited warranty

# LCP-1 DC

DC Transient Protector






## Standard Features

- Low cost, non-serviceable
- Effective series protection for strain gauge transducers
- Encapsulated circuitry ensures positive protection against fungus or corrosion on boards
- Two nylon strain reliefs for 0.187 in-0.312 in (4.7 mm-7.9 mm) diameter cable

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **21143** | LCP-1 DC with cable compression fittings | 2 lb | $210.00 |

## Specifications

**Protection Type:**
Four-channel series type with separate shield

**Maximum Excitation Voltage:**
18 VDC or 18 VAC

**Clamping Voltage:**
75 VDC or 75 VAC

**Clamping Time:**
<100 nanoseconds typical

**Peak Surge Currents:**
5,000 Amps any line to ground and 5,000 Amps excitation to excitation
Maximum Serial Transmission Rate: 30 Kbaud

**Grounding:**
Through a .25 in (6.35 mm) lug to a 20 ft (6.1 m) insulated #10 AWG ground wire provided

**Cable Fitting:**
(2) Standard nylon strain relief for 0.187 in-0.312 in (4.7 mm-7.9 mm) diameter cable

**Enclosure:**
Chemically-resistant PVC. This device, for outdoor or indoor service, is not intended for washdown service (NEMA 4) or for submersion (NEMA 6). Optional NEMA 4X available

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C) consistent with NTEP guidelines

**Leakage:**
7,500 MΩ minimum

**Dimensions:**
4.0 W x 4.0 H x 2.50 in D
(103.2 W x 103.2 H x 63.5 mm D)

**Warranty:**
One-year limited



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## Specifications

**Protection Type:**
Six-channel type with separate shield

**Maximum Excitation Voltage:**
20 VDC or 20 VAC

**Clamping Voltage:**
75 VDC or 75 VAC

**Clamping Time:**
75 VDC Stages <100 nanoseconds typical

**Peak Surge Currents:**
75 VDC Stage-5000 amperes

**Maximum Serial Transmission Rate:**
50K baud

**Series resistance:**
0.219 ohm typical

**Series inductance:**
110 µh typical

**Grounding:**
20 ft (6.1 m) insulated # 10 AWG wire

**Cable Fitting:**
(2) nylon strain relief for 0.079-0.236 in (2.0-6.0 mm) diameter cable

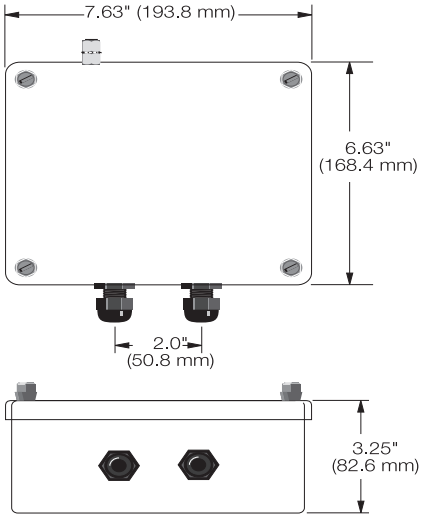
**Enclosure:**
Fiberglass-Reinforced Polyester (FRP) NEMA Type 4X, maximum 40 psi washdown

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Circuit Board:**
6.75 x 4.75 in (171.5 x 120.7 mm) with anti-fungal coating

**Dimensions:**
7.63 W x 6.63 H x 3.25 in D
(193.8 W x 168.3 H x 82.6 mm D)

**Warranty:**
One-year limited warranty







## Standard Features

- Factory serviceable
- Full six-wire with shield protection
- #6 SEMS screw type; accepts spade lugs, tinned leads or bare wires up to #12 AWG
- Up to eight parallel or summed load cells
- 50K baud maximum transmission frequency

## Applications

- Protects load cells from voltage transients
- Compatible with signals down to 1 µV grad
- Installations exposed to significant transients
- Protects serial communication lines

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **21134** | UJB3T6 DC | 4 lb | $425.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **21135** | UJB3T6 DC six-channel load cell transient protector, board only | $250.00 |




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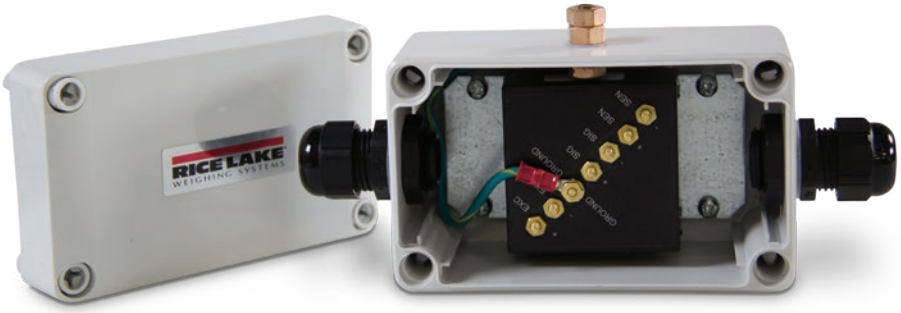




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# TP75 DC

DC Transient Protector




## Standard Features

- Avalanche diode design
- Full six-wire with shield protection
- NEMA Type 4X enclosure
- Unlimited number of parallel load cells; up to eight in series
- Terminal lugs provided

## Applications

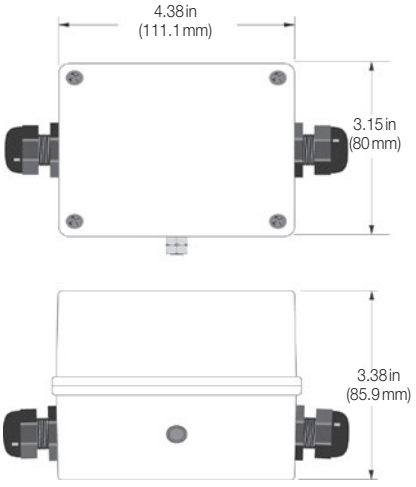
- Protects load cells and indicators from voltage transients
- Tank, bin and hopper scales
- Truck and railroad scales
- Suitable for outdoor use

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **33185** | TP75, load cell protector and mounting hardware | 2 lb | $225.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **31164** | TP75 DC transient protection, board only, with labels | $170.00 |




## Specifications

**Protection Type:**
Six-channel type with separate shield

**Maximum Excitation Voltage:**
22.8 VDC

**Response Time:**
Five nanoseconds

**Peak Surge Currents:**
100 amps

**Series Resistance:**
0.0 ohm

**Series Inductance:**
0.0 µh

**Grounding:**
10 AWG wire or larger (not provided)

**Cable Fitting:**
(2) nylon strain relief for 0.187in-0.312in (4.7mm-7.9mm) diameter cable

**Enclosure:**
Impact-resistant polycarbonate NEMA Type 4X, maximum 40 psi washdown

**Operating Temperature:**
4°F to 121°F (-20°C to 85°C)

**Circuit Board Dimensions:**
2.22 x 2.22 in (56.4 x 56.4 mm)

**Dimensions:**
(W x H x D) 4.38 x 3.15 X 3.38 (111.1 x 80 x 85.9 mm)

**Warranty:**
One-year limited warranty



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## Specifications

**Clamp Voltage:**
140 V rms

**Peak Surge Current:**
6,500 Amps

**Clamping Time:**
<Five nanoseconds

**Input Voltage:**
120 VAC

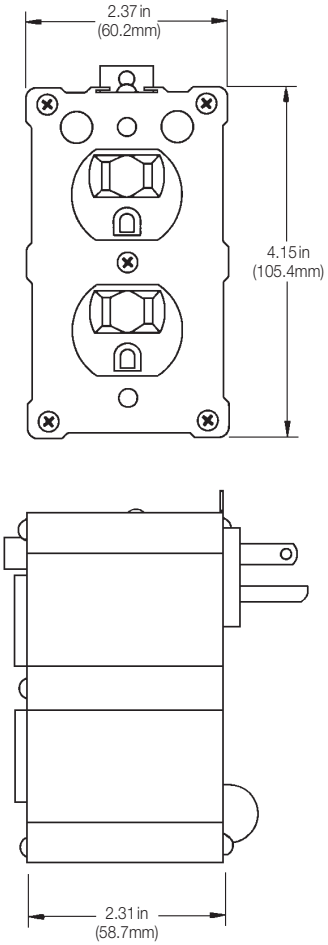
**Maximum Current:**
15 Amps

**Maximum Power:**
1,875 Watts

**Noise Suppression:**
Frequency Attenuation
50 KHz>20 db
150 KHz>40 db
1 MHz>80 db
>6 MHz>30 db

**Dimensions:**
2.37 W x 4.15 H x 2.31 in D
(60.2 W x 105.4 H x 58.7 mm D)

**Weight:**
Approximately 1 lb (0.45 kg)







## Standard Features

- Two outlets, direct plug-in
- LED indicator for power on
- LED indicator for protection circuitry
- UL1449 listed at 330 volts
- Mounting clamp assures positive connection

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **21145** | ISOBLOK® AC two-outlet transient protector | 1 lb | $65.00 |





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# ISOBAR®

AC Transient Protector

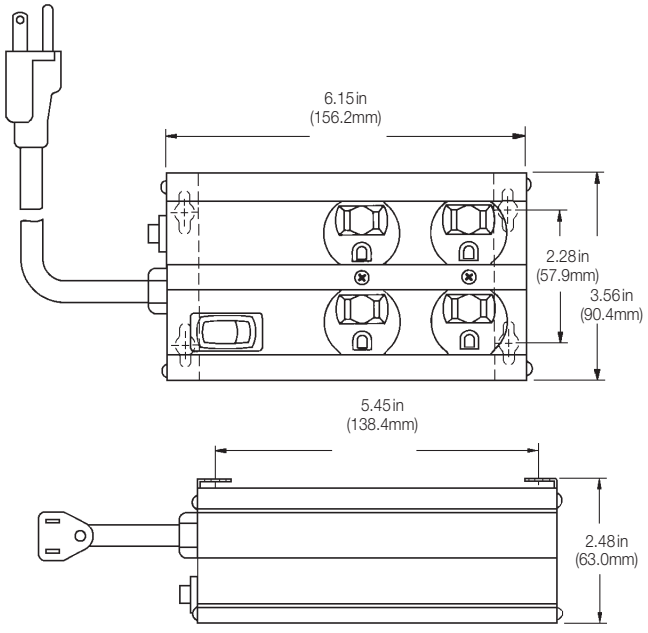



## Standard Features

- Four outlets
- Six-foot cord with grounded three-prong plug
- Lighted on/off switch
- Circuit breaker protected
- Multiple filter design prevents the different components of your system from interfering with each other
- UL1449 listed at 330 volts
- Exclusive isolated filter banks prevent equipment interaction
- ISOBAR's cascade circuitry allows you to choose more protection for your most sensitive equipment and a lesser degree of protection for equipment with more tolerance

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **21146** | ISOBAR® AC four-outlet transient protector, 115 VAC | 2 lb | $110.00 |
| **36663** | ISOBAR 230 VAC Euro | 3 lb | $155.00 |




## Specifications

**Clamp Voltage:**
140 V rms

**Peak Surge Current:**
13,000 amps

**Clamping Time:**
Less than five nanoseconds

**Input Voltage:**
120 VAC

**Maximum Current:**
15 amps

**Maximum Power:**
1,875 watts

**Noise Suppression:**
Frequency Attenuation
50 KHz>20 db
150 KHz>40 db
1 MHz>80 db
>6 MHz>30 db

**Dimensions:**
6.15 W x 3.56 H x 2.48 in D
(156.2 W x 90.4 H x 63.0 mm D)

**Weight:**
Approximately 2 lb (0.91 kg)



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## Specifications

**Operating Voltage:**
120 VAC 50/60 Hz, nominal

**Maximum Current:**
10 rms instantaneous, 7.5 rms continuous

**Clamping Time:**
Less than three to five nanoseconds

**EMI/RFI Protection:**
13 stages

**Protection Type:**
13-stage filters out both common and normal mode transients

**Grounding:**
20 ft (6.1 m) insulated #10 AWG wire provided

**Enclosure:**
Stainless steel

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Circuit Board:**
Fiberglass-reinforced 4-glass epoxy

**Dimensions:**
(W x H x D) 8.00 x 6.00 x 2.50 in
(203.2 x 152.4 x 63.5 mm)

**Warranty:**
One-year limited warranty

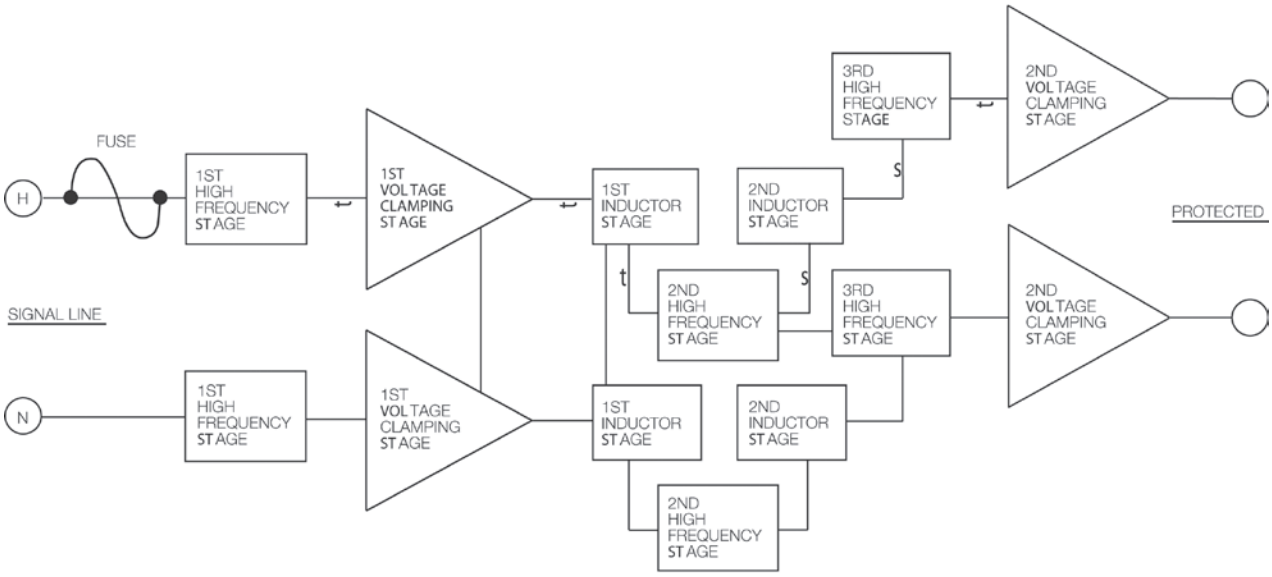


## Standard Features

- Duplex receptacle
- 20ft (6.1m) ground cable
- Factory serviceable
- 9 ft (2.7m) cord with three-prong plug
- Stainless steel industrial enclosure
- Plugs into any grounded three-prong outlet
- Indicator light shows protection is secure
- Excellent as a prefilter for voltage regulators
- Reliability and quality top-of-the-line performance
- Shielded line cord for protection against induced transients
- Positive proven protection for scales, computers and printers
- Convenient mounting holes; can be mounted on any surface

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **21136** | EL226 AC two-outlet transient protector, 115 VAC | 6 lb | $370.00 |






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# EL225-4

AC Transient Protector




## Standard Features

- Dedicated series transient protection
- Bidirectional design reduces noise on surrounding lines

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **21142** | EL225-4 AC transient protector (chassis mount) 115 VAC+ | 1 lb | $285.00 |

## Specifications

**Operating Voltage:**
117 VAC 50/60 Hz, nominal

**Maximum Current:**
2 amps continuous

**Clamping Time:**
Less than five nanoseconds

**Dimensions:**
(H x W x L) 2 x 2.05 x 4.005 in

**EMI/RFI Protection:**
Nine stages

**Protection Type:**
Nine-stage series type filters out both common and normal mode transients

**Grounding:**
20 ft (6.1 m) insulated #10 AWG wire provided

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Warranty:**
One-year limited warranty

# Sola MCR Series

Power Regulator




## Standard Features

- UL listed, CSA certified
- Automatic overload protection
- Convenient lighted on/off switches
- Available in 70, 150 and 250VA outputs
- Offered in standard 120 volt, 60Hz models
- Two duplex receptacles allow several pieces of equipment to economically share the same source of regulated power

**Approvals**

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **21155** | Sola MCR 070 regulator 120 VAC power 70VA power | 16 lb | $625.00 |
| **21156** | Sola MCR 150 AC power regulator, 150VA | 21 lb | $1,095.00 |
| **21157** | Sola MCR 250 AC power regulator, 250VA | 29 lb | $1,395.00 |

## Specifications

**Input:**
Voltage: 120 V
Input Voltage Range: +10% to -20% of input nominal voltage

**Control: Lighted Enable Switch Output:**
Voltage: 120 V
Voltage Regulation: ±3% for an input line variation of +10% to -20%. Output will remain within NEMA voltage specifications for input voltages as low as 65% of nominal. No loss of output for line loss of three milliseconds.
Harmonic Distortion: Less than 3% total RMS content at full load

**Noise Reduction:**
Common mode noise rejection exceeds 120 dB (DC to 1 MHz)
Transverse mode noise rejection exceeds 60 dB (10 KHz to 1 MHz)

**Protection:**
Input: Surge suppression module
Output: Surge suppression module and ferroresonant technology suppresses ANSI/IEEE C62.41-1980 Class A and B waveforms to safe levels (formerly IEEE 587-1980)

**Efficiency:**
90% at full load (typical)

**Reliability:**
25-year continuous life, average

**Operating Temperature:**
-4°F to 122°F (-20°C to 50°C)

**Construction:**
Cruciform-type construction with precision die-cut shunts, gaps and spacing between windings

**Approvals:**
UL listed to UL1012; CSA certified to CSA C22.2-66

**Dimensions:**
(W x H x D) 6.75 x 6.25 x 9.25 in (171.5 x 158.8 x 235.0 mm)

**Weight:**
70 VA - Approximately 16 lb (7.3 kg)
150 VA - Approximately 21 lb (9.5 kg)
250 VA - Approximately 26 lb (11.8 kg)

**Warranty:**
One-year limited warranty



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# Tripp-Lite PV Series
Power Convertor

## Specifications

**Input VDC:**
PV-375—12 V

**Output VAC:**
PV-375—120 VAC

**Frequency Hz:**
PV-375—60 Hz

**Maximum Output Continuous:**
PV-375—375 Watts

**Maximum Output Intermittent:**
PV-375—375 Watts

**Input AMP - No Load:**
PV-375—.65 Amps

**Input AMP - Full load:**
PV-375—40 Amps

**Enclosure:**
Non-sealed aluminum

**Dimensions:**
(W x H x D) 4.25 x 2 x 7 in

**Warranty:**
One-year limited warranty




## Standard Features

- Two 5-15R outlets
- Convenient on/off switch
- 120 VAC 60 Hz sine wave output
- Transistorized and solid state for long life and quiet operation
- Packaged in a compact, rugged aluminum case
- Three-foot cord with DC plug

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **79679** | 375VA, 200 VA,12 VDC to 120 VAC converter | 3 lb | $130.00 |

# Tripp-Lite LC1200
Power Regulator

## Specifications

**Output Wattage (continuous):**
1,200

**Voltage/Frequency:**
120/60

**Cordset:**
6 ft (1.8 m)

**AC Receptacles:**
Four NEMA 5-15R

**LED Indicators:**
Seven (very high voltage, high voltage, normal voltage, low voltage, very low voltage, line fault, line OK)

**Surge Energy Rating (Joules):**
1,200

**High Frequency Noise Suppression (@ 1 MHZ):**
80 dB

**Dimensions:**
(H x W x D) 6.75 x 5.75 x 6.75 in (171.4 H x 146.1 W x 171.4 mm)

**Ship Weight:**
9 lb (4 kg)

**Warranty:**
One-year limited warranty

*NOTE: LC models have isolated filter banks. Each duplex outlet pair is filtered from the rest to prevent interference between connected equipment.*




## Standard Features

- Maintains usable 120V nominal output during brownouts as low as 87V and overvoltages as high as 140V
- 1,200 watts output power rating supports heavy 120V loads up to 10 amps
- Network grade surge suppression rated at 1,200 joules
- Complete EMI/RFI noise filtering
- Seven diagnostic LEDs indicate input voltage levels, surge suppression status and line fault conditions
- Four protected NEMA Type 5-15R outlets
- Six-foot AC power cord with standard NEMA 5-15P input plug

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **70726** | LC1200, 120 VAC power regulator | 11 lb | $210.00 |





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# Sola S1K/S3K

Uninterruptible Power Supply (UPS)




## Specifications

**Input Voltage Range (for online operation):**
115 VAC: +20%/-25%

**Operating Frequency (online):**
50/60 Hz ±1 Hz auto sensing

**Overload Capacity:**
120% ±10% (Three minutes on line mode, 10 seconds on battery)

**Transfer Time:**
Four ms typical

**On Battery Voltage:**
115 VAC: 115 VAC rms ±10%

**Output Voltage Waveform:**
Step Sine Wave at 115 V

**Output Protection:**
Electronically limited

**Input Protection:**
Circuit breaker

**Recharge Time (to 95% capacity):**
Four hours

**Lightning & Surge Protection:**
ANSI/IEEE C62.41 categories A & B, IEC801.4, 801.5

**Safety Certification:**
115 VAC: UL listed to 1778, designed to meet UL497A, CSA certified to CSAC22.2 No. 107.1

**EMI Compliance:**
115 VAC: FCC Class B

**Data Line Protection:**
115 VAC: fax/modem, network

**Indicators:**
Online/utility fail/overlaid/replace battery

**Audible Alarms:**
Utility fail/overload/replace battery

**Dimensions (inches) H x W x D:**
S1K: (H x W x D) 5.3 x 3.8 x 12.6 in
S2K: (H x W x D) 8.3 x 5.5 x 17.2 in

**Warranty:**
Two-year limited warranty

## Standard Features

- Offline with Automatic Voltage Regulation (AVR) topology
- Protects against most adverse power conditions, including: frequency variations, surge, noise, blackouts, lightning, spike, brownouts, and over and under voltages
- Data-line surge protection for phone or network included on every unit
- Greater uptime with intelligent power management, full-sequence battery testing and two-level overload protection

### Approvals

c UL us LISTED

## Part Number/Price

| Part # | Model # | Capacity (Va/Watts) | Volts, Frequency In/Out | Typical Backup (Minutes) | Weight | Input Plug/ Output Receptacle | Price |
|---|---|---|---|---|---|---|---|
| **110812** | 520 VA S1K | 520 | 115/115,50/60 Hz | 15 | 12 lb | 5-15P(4) 5-15R | $325.00 |
| **109910** | 1,000 VA S3K | 1,000/750 | 115/115,50/60 Hz | 18 | 39 lb | 5-15P(4) 5-15R | $850.00 |

*Note: 230 VAC versions available. Consult factory.*

*Note: Air around the above units must be free of dust, chemicals or other materials that corrode or contaminate*



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# Eaton 3S/5S

Uninterruptible Power Supply (UPS)

## Specifications

**Input Voltage Range (for online operation):**
89-151 VAC (3S)
93-138 VAC (5S)

**Operating Frequency (online):**
50/60 Hz out sensing

**UPS and Surge Protection:**
Both models

**Safety Markings:**
UL, CUL, NOM

**Data Line Protection:**
Yes

**Indicators:**
Power, LED

**Alarms:**
No

**Dimensions:**
Model 3S: (H x W x D) 3.4 x 5.5 x 13.2 in
Model 5S: (H x W x D) 9.8 x 3.4 x 10.2 in

**Warranty:**
Three-year limited warranty




## Standard Features

- Five outlets with surge protection (both)
- Five outlets with battery back up and surge protection
- Coax surge protection (5S)
- Replaceable battery

## Part Number/Price

| Part # | Model # | Capacity (Va/Watts) | Volts, Frequency In/Out | Weight | Input Plug/Output Receptacle | Price |
|---|---|---|---|---|---|---|
| **154127** | Eaton 3S | 550/330 | 120 V | 10 lb | NEMA Type 5-15R | $165.00 |
| **154128** | Eaton 5S | 700/450 | 120 V | 16 lb | NEMA Type 5-15R | $350.00 |





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# Precision Industrial Weighing

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MINEBEA INTEC

# Midrics Series

Complete Scale



## Specifications

**Indicators:**
MIS1 - UR 20 mm LCD

**Power Supply:**
100 - 200 VAC, 50 - 60 Hz

**Readability:**
15,000 scale intervals

**Cable Length:**
2.5 m

**Warranty:**
Two-year limited warranty

## Standard Features

- There are hundreds of possible applications for an industrial scale. Whatever, wherever and however – the Midrics® can do it all:
- Capacities from 6 kg to 60 kg
- Painted versions have IP65 protection rating for industrial use
- 304 Stainless steel versions have IP67/IP68 protection ratings
- Four adjustable feet, level indicator on LCE and NCE
- 10 ft cable platform
- Midrics 1 display, for simple weighing tasks
- Midrics 2 with10-key touch pad and application programs
- Midrics 2 application programs - counting, checkweighing, classification, totalizing, net-total formulation, animal weighing, percent weighing, neutral measurement
- Accessories: user installed interface kits, printer, external battery pack, software tools, panel mount kit

## Part Number/Price

| RLWS PN | Minebea PN | Dimensions | # Load Cells | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|
| **103668** | MW1P1U-6DC-L | 12.5 x 9.5 in | 1 | 6 kg | 0.5 g | 22 lb | $1,363.00 |
| **103669** | MW1P1U-15DC-L | 12.5 x 9.5 in | 1 | 15 kg | 1 g | 24 lb | $1,363.00 |
| **103670** | MW1P1U-30ED-L | 15.75 x 11.8 in | 1 | 30 kg | 2 g | 24 lb | $1,441.00 |
| **103671** | MW1P1U-60ED-L | 15.75 x 11.8 in | 1 | 60 kg | 5 g | 24 lb | $1,441.00 |
| **103672** | MW1P1U-60FE-L | 19.5 x 15.75 in | 1 | 60 kg | 5 g | 22 lb | $1,659.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **171727** | YDH12CWSUS | Holder base mount for ED base | $80.00 |
| **Consult** | Consult | Stainless steel column | Consult |
| **105607** | YDH02CISUS | Wall-mount bracket, SST, tiltable | $80.00 |
| **193048** | YDC01SW | Indicator dust cover pack of two | $76.00 |
| **Consult** | YBP03CIS | Base for installing floor mounted option, SST | $205.00 |
| **Consult** | YAS03MI | Indicator panel mount option | $196.00 |

**Custom Part No. Configuration**

MW / P / 1 / U - 30ED-L

- Selected Resolution
- Platform Size
- Kg Capacity
- 1 Cell
- P=Painted, S-Stainless
- Model= MW1 or MW2

**Capacities**
6 kg x 0.5 g
15 kg x 1 g
30 kg x 2 g
60 kg x 5 g

**Platform Sizes**
DC = 12.5 x 9.5 in
ED = 15.75 x 11.8 in
FE = 19.5 x 15.75 in



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# Midrics 2 Series

Midrics/Combics System

## Specifications

**Power Supply:**
100 - 200 VAC, 50 - 60 Hz

**Readability:**
15,000 scale intervals

**Cable Length:**
3 m

**Warranty:**
Two-year limited warranty



## Standard Features

- Painted versions have IP65 protection rating for industrial use
- 304 stainless steel versions have IP67/IP68 protection ratings
- Four adjustable feet, level indicator on LCE and NCE
- 10 ft cable platform
- Midrics 2 with 10-key touch pad and application programs
- Midrics 2 application programs - counting, checkweighing, classification, totalizing, net-total formulation, animal weighing, percent weighing, neutral measurement
- Weighing ranges from 6 kg to 150 kg
- Optional accessories: User installed interface kits, printer, external battery pack, software tools, panel mount kit

## Part Number/Price

| RLWS PN | Minebea PN | Dimensions | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **Mild Steel with MIS2-U** | | | | | | |
| **156428** | MW2P1UE-10CC-I | 10 x 10 in | 15 lb (6 kg) | 0.0005 lb (0.0002 kg) | 18 lb | $1,458.00 |
| **156429** | MW2P1UE-50DD-I | 12 x 12 in | 60 lb (30 kg) | 0.002 lb (0.001 kg) | 22 lb | $1,563.00 |
| **156430** | MW2P1UE-100EE-I | 18 x 18 in | 150 lb (60 kg) | 0.005 lb (0.002 kg) | 63 lb | $1,756.00 |
| **156431** | MW2P1URE-250GG-I | 24 x 24 in | 300 lb (150 kg) | 0.01 lb (0.005 kg) | 118 lb | $3,131.00 |
| **Stainless Steel with MIS2-U** | | | | | | |
| **156432** | MW2S1UE-10CC-I | 10 x 10 in | 15 lb (6 kg) | 0.0005 lb (0.0002 kg) | 18 lb | $1,803.00 |
| **156433** | MW2S1UE-50DD-I | 12 x 12 in | 60 lb (30 kg) | 0.002 lb (0.001 kg) | 22 lb | $1,877.00 |
| **156434** | MW2S1UE-100EE-I | 18 x 18 in | 150 lb (60 kg) | 0.005 lb (0.002 kg) | 63 lb | $2,133.00 |
| **156435** | MW2S4URE-250GG-I | 24 x 24 in | 300 lb (150 kg) | 0.01 lb (0.005 kg) | 118 lb | $5,745.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **156440** | YDH01CWSUS | Post mount assembly for 10 x 10 in platforms, 13 in high | $200.00 |
| **156441** | YDH02CWSUS | Post mount assembly for 12 x 12 in platforms, 19 in high | $217.00 |
| **156442** | YDH03CWSUS | Post mount assembly for 18 x 18 in platforms, 29 in high | $250.00 |
| **193048** | YDC01SW | Indicator dust cover pack of two | $76.00 |



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MINEBEA INTEC

# Combics 2

Complete Scale



*Shown with optional post mount assembly*

*Application Note:*

*Counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total, animal weighing, averaging, totalizing*

## Standard Features

- Amber backlit LCD display, 0.8 in, 13 segment
- External calibration routine
- RS-232C
- Numeric keypad (with two IDs) for entering identifier codes and preset tares
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Optional barcode scanner for preset tare, reference weight and ID entry
- Stored customer specific data records
- Two scale connections, analog or digital
- 10 ft cable

## Part Number/Price

| RLWS PN | Minebea PN | Dimensions | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|
| **Mild Steel with CAISL2-U** | | | | | | |
| **156409** | CAW2P1U-10CC-I | 10 x 10 in | 15 lb (6 kg) | 0.0005 lb (0.0002 kg) | 20 lb | $2,020.00 |
| **156414** | CAW2P1U-50DD-I | 12 x 12 in | 60 lb (30 kg) | 0.002 lb (0.001 kg) | 24 lb | $2,051.00 |
| **156420** | CAW2P1U-100EE-I | 18 x 18 in | 150 lb (60 kg) | 0.005 lb (0.002 kg) | 65 lb | $2,355.00 |
| **156423** | CAW2P1U-250GG-I | 24 x 24 in | 300 lb (150 kg) | 0.01 lb (0.005 kg) | 120 lb | $3,225.00 |
| **Stainless Steel with CAIS2-U** | | | | | | |
| **156424** | CAW2S1U-10CC-I | 10 x 10 in | 15 lb (6 kg) | 0.0005 lb (0.0002 kg) | 22 lb | $2,506.00 |
| **156425** | CAW2S1U-50DD-I | 12 x 12 in | 60 lb (30 kg) | 0.002 lb (0.001 kg) | 30 lb | $2,637.00 |
| **156426** | CAW2S1U-100EE-I | 18 x 18 in | 150 lb (60 kg) | 0.005 lb (0.002 kg) | 68 lb | $2,794.00 |
| **156427** | CAW2S4UR-250GG-I | 24 x 24 in | 300 lb (150 kg) | 0.01 lb (0.005 kg) | 127 lb | $6,117.00 |

*CAW2P are an IP65 mild steel base with an IP44 indicator*
*CAW2S are an IP67 stainless steel base with an IP69K indicator*

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **156440** | YDH01CWSUS | Post mount assembly for 10 x 10 in platforms, 13 in high | $200.00 |
| **156441** | YDH02CWSUS | Post mount assembly for 12 x 12 in platforms, 19 in high | $217.00 |
| **156442** | YDH03CWSUS | Post mount assembly for 18 x 18 in platforms, 29 in high | $250.00 |
| **171727** | YDH12CWSUS | Bench mount bracket | $80.00 |
| **105607** | YDH02CISUS | Tiltable wall mount bracket | $80.00 |
| **Consult** | 69CW0126 | Power supply | Consult |

## Specifications

**Supply Voltage:**
9 V

**Power Requirements:**
120-240 VAC, 17 W / 23 VA maximum

**Indicator Housing:**
AISI 304 stainless steel

**Indicator Dimensions:**
(W x D x H): 11.9 x 7.4 x 3.5 in
(302.3 x 188 x 89 mm)

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty
Accessories: one-year limited warranty



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## Specifications

**Platform Size:**
13.8 x 9.5 in (350.5 x 241.3 mm)

**Power:**
Multi-range, 110-240 V

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Measurement Technology:**
SIWRDCP-Load cell signum regular
SIWADCP-Mechatronic cell-advanced
SIWSDCP-Monolythic-supreme

**Cable Length:**
Display: 6 ft (1.83 m) approximately

**Warranty:**
Two-year limited warranty
Accessories: one-year limited warranty



## Standard Features

- The Signum is extremely rugged and resistant, and adapts perfectly to any ambient conditions in an industrial environment
- Compact scale built as custom
- Painted steel frame with a stainless steel cover
- Available in three indicator models - 6, 14 or 28 keys
- Available in three weighing technologies - load cell, mechatronic or monolithic
- Resolution 35,000 d to 350,000 d
- Built-in motorized calibration weight (Signum Supreme)
- RS-232 output
- IP65

| Weighing Technology | Indicator Options | Capacity | Readability | Included |
|---|---|---|---|---|
| SIWRDCP (Load Cell) | Applications level 1 - Tare, Zero, Weight Toggle OR Application level 3 - Tare, Zero, Counting, Checkweighing, ID's | 3, 6, 15, 35, and 60 kg | 30,000 d | IP65, RS-232, detachable display |
| SIWADCP (Temperature Compensated Load Cell) | | 7, 16, 35 and 65 kg | 70,000 d | IP65, RS-232 |
| SIWSDCP (Monolythic) | | 6, 16 and 35 kg | 160,000 d–600,000 d | IP65, RS-232, detachable display |

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# Signum Series

Complete Scale

## Part Number/Price

| RLWS PN | Minebea PN | Dimensions | # Load Cells | Application Level | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|
| **103665** | SIWADCP-V3 | 13.7 x 9.5 in | 1 | 1 | 7 kg | 0.1 g | 29 lb | $2,278.00 |
| **103666** | SIWADCP-V4 | 13.7 x 9.5 in | 1 | 3 | 7 kg | 0.1 g | 29 lb | $2,918.00 |
| **105853** | SIWADCP-V5 | 13.7 x 9.5 in | 1 | 3 | 35 kg | 0.5 g | 29 lb | $2,918.00 |
| **105854** | SIWADCP-V6 | 13.7 x 9.5 in | 1 | 3 | 65 kg | 1 g | 29 lb | $2,918.00 |
| **105855** | SIWRDCP-V6 | 13.7 x 9.5 in | 1 | 1 | 3 kg | 0.11 g | 29 lb | $1,670.00 |
| **103657** | SIWRDCP-V7 | 13.7 x 9.5 in | 1 | 1 | 6 kg | 0.2 g | 29 lb | $1,748.00 |
| **103658** | SIWRDCP-V8 | 13.7 x 9.5 in | 1 | 1 | 15 kg | 0.5 g | 29 lb | $1,768.00 |
| **103659** | SIWRDCP-V9 | 13.7 x 9.5 in | 1 | 1 | 35 kg | 1 g | 29 lb | $1,786.00 |
| **103660** | SIWRDCP-V10 | 13.7 x 9.5 in | 1 | 1 | 60 kg | 2 g | 29 lb | $1,808.00 |
| **151372** | SIWSBBP-V16 | 7.1 x 7.1 in | 1 | 1 | 3 kg | 0.01 g | 16.5 lb | $4,333.00 |
| **151373** | SIWSBBP-V17 | 7.1 x 7.1 in | 1 | 1 | 6 kg | 0.01 g | 16.5 lb | $5,061.00 |
| **151374** | SIWSDCP-V18 | 13.7 x 9.5 in | 1 | 1 | 16 kg | 0.1 g | 29 lb | $5,187.00 |
| **151375** | SIWSDCP-V19 | 13.7 x 9.5 in | 1 | 1 | 35 kg | 0.1 g | 29 lb | $5,494.00 |
| **151376** | SIWRDCP-V20 | 13.7 x 9.5 in | 1 | 3 | 6 kg | 0.2 g | 29 lb | $2,436.00 |
| **151377** | SIWRDCP-V21 | 13.7 x 9.5 in | 1 | 3 | 15 kg | 0.5 g | 29 lb | $2,457.00 |
| **151378** | SIWRDCP-V22 | 13.7 x 9.5 in | 1 | 3 | 35 kg | 1 g | 29 lb | $2,474.00 |
| **151379** | SIWRDCP-V23 | 13.7 x 9.5 in | 1 | 3 | 60 kg | 2 g | 29 lb | $2,496.00 |
| **151410** | SIWADCP-V24 | 13.7 x 9.5 in | 1 | 1 | 16 kg | 0.2 g | 29 lb | $2,290.00 |
| **151411** | SIWADCP-V25 | 13.7 x 9.5 in | 1 | 1 | 35 kg | 0.5 g | 29 lb | $2,322.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **36907** | YDP21 | Data printer, statistics and T/D functions, 5 ft Cable (requires 83248) | $1,035.00 |
| **31106** | 6906918 | Ribbon | $39.00 |
| **31103** | 6906937 | Paper | $34.00 |
| **83248** | YCC01-0016M3 | Cable, 9.8 ft, 12-Pin round to 25 D-Sub female | $364.00 |
| **105607** | YDH02CISUS | Wall mount bracket | $80.00 |
| **153218** | YDH01P | Column for DC platforms, 19 in | $311.00 |
| **155884** | YDH02P | Column to BBP | $619.00 |
| **155804** | YCC05-001M5 | RS-232 cable, 25-Pin D-sub male to 9/25-Pin D-sub female | $104.00 |
| **193048** | YDC01SW | Dust cover pack of two | $76.00 |
| **194664** | YDO01CS-ETH | Ethernet option (for DCP & EDG models only) | $717.00 |
| **199894** | YDO03SW-ETH | Ethernet option (for BBP models only) | $735.00 |
| **Consult** | 69CW0126 | Power cord | Consult |





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# Midrics® 1 and 2 Series

Digital Weight Indicator

## Specifications

**Load Cell Connection:**
Excitation voltage 8.4 V
4 or 6 conductor

**Power Requirements:**
100 - 240 VAC (-15/10) 50-60 Hz, Max 17 W/23 VA

**Power Cord:**
3 m

**Housing:**
304 stainless steel enclosure, IP65

**Dimensions:**
(W x D x H): 9 1/3 x 6 1/2 x 3 3/4 in (238 x 165 x 94 mm)

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Net Weight:**
5 lb (2.3 kg)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP Class III




## Standard Features

- Backlit 14-segment, 20 mm LCD display
- 304 stainless steel enclosure, IP65 rated
- Wall-mount bracket
- Time and date
- RS-232 and clock

## Midrics 2 Additional Feature

- Numerical keyboard

## Applications:

- Weighing
- Counting
- Checkweighing
- Sorting (3 or 5 classes)
- Totalizing
- Net-total
- Animal weighing
- Weighing in percent
- Neutral measurement

## Options

- 4-20 mA

## Part Number/Price

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **155855** | MIS1UR-V1 | Midrics 1, wall bracket (table top versions with U bracket) | $640.00 |
| **155857** | MIS1U-L9 | Midrics 1, wall bracket, internal battery pack | $1,116.00 |
| **155856** | MIS2UR-V2 | Midrics 2, wall bracket (table top versions with U bracket) | $723.00 |
| **155859** | MIS2U-L9 | Midrics 2, wall bracket, internal battery pack | $1,238.00 |
| **155860** | Consult | Interface, RS-232 and Clock | $175.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **103044** | YDA01M-20MA | Analog current output, 0-20 mA, 4-20 mA, 0-10 V (16-bit) | $461.00 |
| **155805** | YCC01-USBM2 | Connecting cable from RS-232 to USB connector, 2 m | $160.00 |
| **155806** | YCC02-D25F6 | Connecting cable for accessories 25-Pin D-SUB female | $264.00 |
| **Consult** | YAS03-M1 | Panel mount option | Consult |
| **193048** | YDC01SW | Dust cover pack of two | $76.00 |
| **171727** | Consult | Bracket, bench mount for DC, ED, and FE | $80.00 |





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MINEBEA INTEC

# Combics 1

Digital Weight Indicator




*Application Note:*

*Combics 1 indicator is designed for use with both Combics, IF and IS series platforms. However, various accessories may differ and are application dependent.*

## Standard Features

- IP protection rating, IP44, IP69K
- Amber backlit LCD display, 0.8 in
- External calibration routine
- RS-232C
- On/Off, Zero, Tare, Print/Data Key
- Function keys for: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Automatic tare feature
- One scale connection

## Part Number/Price

| RLWS PN | Minebea PN | Description | Est. Weight | Price |
|---|---|---|---|---|
| **102396** | CAISL1-U | IP44 protection rated | 7.5 lb | $1,117.00 |
| **102398** | CAIS1-U | IP69K protection rated | 7.5 lb | $1,495.00 |
| **115668** | CAISL1-UV1 | IP44, controller for IS base | 7.5 lb | $1,625.00 |
| **115671** | CAIS1-UV1 | IP69K, controller for IS base | 7.5 lb | $1,802.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **105607** | YDH02CISUS | Wall mount bracket | $80.00 |
| **171727** | YDH12CWSUS | Bench mount bracket | $80.00 |
| **156440** | YDH01CWSUS | Post mount assembly for 10 x 10 in platforms, 13 in high | $200.00 |
| **156441** | YDH02CWSUS | Post mount assembly for 12 x 12 in platforms, 19 in high | $217.00 |
| **156442** | YDH03CWSUS | Post mount assembly for 18 x 18 in platforms, 29 in high | $250.00 |
| **103049** | YAS02MI | 24 V industrial power supply | $201.00 |
| **162640** | YD002C-ETH | Ethernet TCP/IP | $801.00 |
| **155826** | YD002C-AO | Analog output, 0-20 mA, 4-20 mA, 0-10 V | $801.00 |
| **193049** | YDC01CI | Dust cover pack of two | $67.00 |
| **Cables** | | | |
| **155804** | YCC05-001M2 | RS-232 9/25-Pin D-Sub female, 1.5 m, IP44 | $104.00 |
| **155805** | YCC01-USBM2 | RS-232 to USB connector, 2 m IP44 | $160.00 |
| **155806** | YCC02-D25F6 | RS-232 open to 25 D-Sub female | $264.00 |

## Specifications

**Load Cell Connection:**
4 or 6 wire

**Excitation Voltage:**
9V

**Power Requirements:**
120-240 VAC, 17 W/23 VA maximum

**Housing:**
AISI 304 stainless steel

**Dimensions:**
(W x D x H): 11.9 x 7.4 x 3.5 in

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Net Weight:**
5 lb

**Warranty:**
Two-year limited warranty
Accessories: One-year limited warranty



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# Combics 2

Digital Weight Indicator

## Specifications

**Load Cell Connection:**
4 or 6 wire

**Excitation Voltage:**
9 V

**Power Requirements:**
120-240 VAC, 17 W / 23 VA maximum

**Housing:**
AISI 304 stainless steel

**Dimensions:**
(W x D x H): 11.9 x 7.4 x 3.5 in

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Net Weight:**
5 lb

**Warranty:**
Two-year limited warranty on indicator
Accessories: One-year limited warranty




*Application Note:*

*Combics 2 and Combics 3 indicators are designed for use with both Combics, IF and IS series platforms. However, various accessories may differ and are application dependent.*

*Applications Software Pre-installed:*

*Counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total, animal weighing, averaging, totalizing*

## Standard Features

- Choice of IP protection rating (IP44, IP69K)
- Amber backlit LCD display, 0.8 in, 13-segment
- External calibration routine
- RS-232C
- On/Off, Zero, Tare, Print/Data Keys
- Function keys for: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Numeric keypad with two IDs for entering identifier codes and preset tare
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- GMP compliant printable record
- NICE Label Express FlexiPrint compatible
- Platform toggling and four function keys
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional barcode scanner for preset tare, reference weight and ID entry
- Stored customer-specific data records
- Optional two scale connections, analog or digital

## Part Number/Price

| RLWS PN | Minebea PN | Description | Est. Weight | Price |
|---|---|---|---|---|
| **102402** | CAISL2-U | IP44 protection rated | 7.5 lb | $1,390.00 |
| **102404** | CAIS2-U | IP69K protection rated | 7.5 lb | $1,764.00 |
| **115670** | CAISL2-UV1 | IP44, controller for IS base | 7.5 lb | $1,891.00 |
| **115673** | CAIS2-UV1 | IP69K, controller for IS base | 7.5 lb | $2,155.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **105607** | YDH02CISUS | Wall mount bracket | $80.00 |
| **171727** | YDH12CWSUS | Bench mount bracket | $80.00 |
| **156440** | YDH01CWSUS | Post mount assembly for 10 x 10 in platforms, 13 in high | $200.00 |
| **156441** | YDH02CWSUS | Post mount assembly for 12 x 12 in platforms, 19 in high | $217.00 |
| **156442** | YDH03CWSUS | Post mount assembly for 18 x 18 in platforms, 29 in high | $250.00 |
| **103049** | YAS02MI | 24 V industrial power supply | $201.00 |
| **162640** | YDO02C-ETH | Ethernet TCP/IP | $801.00 |
| **155826** | YDO02C-A0 | Analog output, 0-20 mA, 4-20 mA, 0-10 V | $801.00 |
| **193049** | YDC01CI | Dust cover pack of two | $67.00 |
| **Cables** | | | |
| **155804** | YCC05-001M2 | RS-232 9/25-Pin D-Sub female, 1.5 m, IP44 | $104.00 |
| **155805** | YCC01-USBM2 | RS-232 to USB connector, 2 m IP44 | $160.00 |
| **155806** | YCC02-D25F6 | RS-232 open to 25 D-Sub female | $264.00 |



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MINEBEA INTEC

# Combics 3

Digital Weight Indicators

*Combics 2 and Combics 3 indicators are designed for use with both Combics, IF and IS series platforms. However, various accessories may differ and are application dependent.*

*Applications Software Pre-installed:*

*Counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total, animal weighing*

*Custom Applications Packages:*

*Single component batching BASIC*

*Single component batching PRO*




## Standard Features

- IP protection rating (IP44, IP69K)
- Amber backlit LCD display
- On/Off Zero, Tare, Print/Data Keys
- Function keys for: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Keypad with two IDs for entering identifier codes and preset tare
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- GMP/GLP printable record
- Platform toggling and four function keys
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional barcode scanner for preset tare, reference weight and ID entry
- Stored customer-specific data records
- Key for toggling between weighing applications, and five soft keys with text-supported user guidance
- Input functions for entering up to four alphanumeric ID texts

## Part Number/Price

| RLWS PN | Minebea PN | Description | Est. Weight | Price |
|---|---|---|---|---|
| **102405** | CAISL3-U | IP44 protection rated | 7.5 lb | $1,859.00 |
| **Consult** | CAISL3-UV1 | IP44, controller for IS base | 7.5 lb | $2,207.00 |
| **102407** | CAIS3-U | IP69K protection rated | 7.5 lb | $2,228.00 |
| **115674** | CAIS3-UV1 | IP69K, controller for IS base | 7.5 lb | $2,572.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **105607** | YDH02CISUS | Wall mount bracket | $80.00 |
| **171727** | YDH12CWSUS | Bench mount bracket | $80.00 |
| **156440** | YDH01CWSUS | Post mount assembly for 10 x 10 in platforms, 13 in high | $200.00 |
| **156441** | YDH02CWSUS | Post mount assembly for 12 x 12 in platforms, 19 in high | $217.00 |
| **156442** | YDH03CWSUS | Post mount assembly for 18 x 18 in platforms, 29 in high | $250.00 |
| **103049** | YAS02MI | 2 V industrial power supply | $201.00 |
| **155826** | YDO02C-A0 | Analog output, 0-20 mA, 4-20 mA, 0-10 V | $801.00 |
| **162640** | YDO02C-ETH | Ethernet TCP-IP | $801.00 |
| **193049** | YDC01CI | Dust cover pack of two | $67.00 |
| **Cables** | | | |
| **155804** | YCC05-001M2 | RS-232 9/25-Pin D-Sub female, 1.5 m, IP44 | $104.00 |
| **155805** | YCC01-USBM2 | RS-232 to USB connector, 2 m IP44 | $160.00 |
| **155806** | YCC02-D25F6 | RS-232 open to 25 D-Sub female | $264.00 |

## Specifications

**Load Cell Connection:**
4 or 6 wire

**Supply Voltage:**
9 V

**Power Requirements:**
120-240 VAC, 17 W/23 VA maximum

**Housing:**
AISI 304 stainless steel

**Dimensions:**
(W x D x H): 11.9 x 7.4 x 3.5 in

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Net Weight:**
5 lb

**Warranty:**
Two-year limited warranty
Accessories: One-year limited warranty



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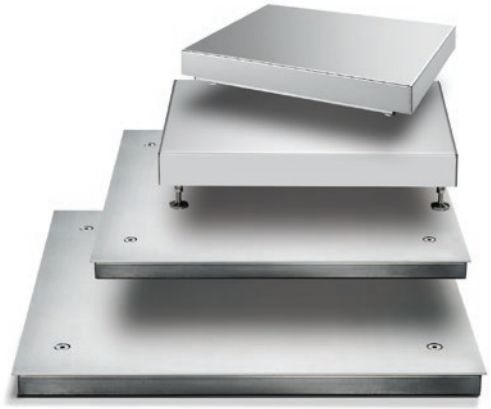
## Specifications

**Cable Length:**
10 ft/3 m-up to 1,000 lb 30 x 30 in
20 ft/6 m 1,000 lb and above 36 x 36 in

**Operating Temperature:/strong>**
14° F to 104° F (-10° C to 40° C)

**Height:**
Adjustable feet

**Warranty:**
Two-year limited warranty
Accessories: One-year limited warranty



## Standard Features

- One or four load cells (as noted)
- NTEP Certified (up to 5000e) and capable of up to 30,000d for Non-NTEP
- Compatible with all Rice Lake and Combics indicators (30,000d not guaranteed with Rice Lake instrumentation)
- 10 or 20 ft platform cable

## Optional Configurations

- Complete selection of pit frames for flush mounting available
- R2 - Electropolished 316T, stainless steel
- T1 - Pressure lift system (only available for II platforms and larger)
- Drive-on ramps
- Pit frame
- Mild steel painted or 304 stainless steel
- 304 stainless steel platters



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# Combics

Painted/Stainless Steel

## Part Number/Price

| RLWS PN | Minebea PN | Dimensions | Foot Adjustable Height | # Load Cells | Capacity Readability | | Capacity Readability | | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **Painted Steel** | | | | | | | | | | |
| **102285** | CAPP1U-10CC-LU | 10 x 10 in | 2.7 in - 3.6 in | 1 | 15 lb | 0.0005 | 6 kg | 0.0002 | 14 lb | $759.00 |
| **102286** | CAPP1U-20CC-LU | 10 x 10 in | 2.7 in - 3.6 in | 1 | 30 lb | 0.001 | 15 kg | 0.0005 | 14 lb | $759.00 |
| **102287** | CAPP1U-50CC-LU | 10 x 10 in | 2.7 in - 3.6 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 14 lb | $759.00 |
| **102288** | CAPP1U-50DD-LU | 12 x 12 in | 3.6 in - 4.5 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 18 lb | $833.00 |
| **102291** | CAPP1U-100DD-LU | 12 x 12 in | 3.6 in - 4.5 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 18 lb | $833.00 |
| **102289** | CAPP1U-50EE-LU | 18 x 18 in | 3.5 in - 4.4 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 64 lb | $1,114.00 |
| **102292** | CAPP1U-100EE-LU | 18 x 18 in | 3.5 in - 4.4 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 64 lb | $1,114.00 |
| **102297** | CAPP1U-200EE-LU | 18 x 18 in | 3.5 in - 4.4 in | 1 | 200 lb | 0.01 | 100 kg | 0.005 | 64 lb | $1,114.00 |
| **102294** | CAPP1U-100GG-LU | 24 x 24 in | 5.7 in - 6.7 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 121 lb | $2,135.00 |
| **102299** | CAPP1U-250GG-LU | 24 x 24 in | 5.9 in - 6.4 in | 1 | 300 lb | 0.01 | 150 kg | 0.005 | 121 lb | $2,135.00 |
| **102302** | CAPP1U-500GG-LU | 24 x 24 in | 5.7 in - 6.7 in | 1 | 600 lb | 0.02 | 300 kg | 0.01 | 121 lb | $2,135.00 |
| **102296** | CAPP1U-100HH-LU | 30 x 30 in | 5.71 in - 6.71 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 187 lb | $2,615.00 |
| **102301** | CAPP1U-250HH-LU | 30 x 30 in | 5.71 in - 6.71 in | 1 | 300 lb | 0.01 | 150 kg | 0.005 | 187 lb | $2,615.00 |
| **102304** | CAPP1U-500HH-LU | 30 x 30 in | 5.71 in - 6.71 in | 1 | 600 lb | 0.02 | 300 kg | 0.01 | 187 lb | $2,615.00 |
| **102306** | CAPP1U-1000HH-LU | 30 x 30 in | 5.71 in - 6.71 in | 1 | 1500 lb | 0.05 | 600 kg | 0.02 | 187 lb | $2,615.00 |
| **Pit Frames** | | | | | | | | | | |
| **104313** | YEG-HG-PUS | 30 x 24 in (HG) | | | | | | | | $897.00 |
| **104315** | YPF01KKP-MUS | 36 x 36 in (KK) | | | | | | | | $997.00 |
| **Stainless Steel** | | | | | | | | | | |
| **102429** | CAPS1U-10CC-LU | 10 x 10 in | 2.6 in - 3.4 in | 1 | 15 lb | 0.0005 | 6 kg | 0.0002 | 16 lb | $1,031.00 |
| **102430** | CAPS1U-20CC-LU | 10 x 10 in | 2.6 in - 3.4 in | 1 | 30 lb | 0.001 | 15 kg | 0.0005 | 16 lb | $1,031.00 |
| **102431** | CAPS1U-50CC-LU | 10 x 10 in | 2.6 in - 3.4 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 16 lb | $1,031.00 |
| **102432** | CAPS1U-50DD-LU | 12 x 12 in | 3.3 in - 4.4 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 24 lb | $1,120.00 |
| **102433** | CAPS1U-100DD-LU | 12 x 12 in | 3.5 in - 4.4 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 24 lb | $1,120.00 |
| **102434** | CAPS1U-50EE-LU | 18 x 18 in | 3.5 in - 4.4 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 62 lb | $1,384.00 |
| **102435** | CAPS1U-100EE-LU | 18 x 18 in | 3.5 in - 4.4 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 62 lb | $1,384.00 |
| **102436** | CAPS1U-200EE-LU | 18 x 18 in | 3.5 in - 4.4 in | 1 | 200 lb | 0.01 | 100 kg | 0.005 | 62 lb | $1,384.00 |
| **102458** | CAPS4U-100GG-LU | 24 x 24 in | 3.4 in - 3.6 in | 4 | 150 lb | 0.005 | 60 kg | 0.002 | 121 lb | $4,866.00 |
| **102460** | CAPS4U-250GG-LU | 24 x 24 in | 3.4 in - 3.6 in | 4 | 300 lb | 0.01 | 150 kg | 0.005 | 121 lb | $4,866.00 |
| **102461** | CAPS4U-500GG-LU | 24 x 24 in | 3.4 in - 3.6 in | 4 | 600 lb | 0.02 | 300 kg | 0.01 | 121 lb | $4,866.00 |
| **102466** | CAPS4U-100HH-LU | 30 x 30 in | 3.4 in - 3.6 in | 4 | 150 lb | 0.005 | 60 kg | 0.002 | 187 lb | $5,122.00 |
| **102467** | CAPS4U-250HH-LU | 30 x 30 in | 3.4 in - 3.6 in | 4 | 300 lb | 0.01 | 150 kg | 0.005 | 187 lb | $5,122.00 |
| **102468** | CAPS4U-500HH-LU | 30 x 30 in | 3.4 in - 3.6 in | 4 | 600 lb | 0.02 | 300 kg | 0.01 | 187 lb | $5,122.00 |
| **102469** | CAPS4U-1000HH-LU | 30 x 30 in | 3.4 in - 3.6 in | 4 | 1500 lb | 0.05 | 600 kg | 0.02 | 187 lb | $5,122.00 |
| **102470** | CAPS4U-1000KK-LU | 36 x 36 in | 3.5 in | 4 | 1500 lb | 0.05 | 600 kg | 0.02 | 250 lb | $5,750.00 |
| **102471** | CAPS4U-2500KK-LU | 36 x 36 in | 3.5 in | 4 | 3000 lb | 0.1 | 1500 kg | 0.05 | 250 lb | $5,750.00 |
| **102472** | CAPS4U-5000KK-LU | 36 x 36 in | 3.5 in | 4 | 6000 lb | 0.2 | 3000 kg | 0.1 | 250 lb | $5,750.00 |
| **102473** | CAPS4U-1000NN-LU | 48 x 48 in | 3.5 in | 4 | 1500 lb | 0.05 | 600 kg | 0.02 | 390 lb | $6,949.00 |
| **102474** | CAPS4U-2500NN-LU | 48 x 48 in | 3.5 in | 4 | 3000 lb | 0.1 | 1500 kg | 0.05 | 390 lb | $6,949.00 |
| **102475** | CAPS4U-5000NN-LU | 48 x 48 in | 3.5 in | 4 | 6000 lb | 0.2 | 3000 kg | 0.1 | 390 lb | $6,901.00 |
| **Pit Frames** | | | | | | | | | | |
| **104322** | YEG-HH-SUS | 30 X 30 in (HH) | | | | | | | | $2,390.00 |
| **104323** | YPF01KKT-MUS | 36 x 36 in (KK) | | | | | | | | $2,611.00 |
| **104324** | YPF01NNT-MUS | 48 x 48 in (NN) | | | | | | | | $3,139.00 |





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# IF Series

Painted Steel Platform Scale

## Specifications

**Cable Length:**
6 m (19.7 ft)

**Ingress Protection Rating:**
IP65

**Regulatory Compliance:**
HACCP, FDA

**Warranty:**
Two-year limited warranty



*Does not represent standard models (This is the stainless version shown with additional optional features)*

## Standard Features

- Various options for portability utilizing unique MoveLine weighing platform
- Four strain gauge stainless steel load cells ensure precise results
- Ultra low profile: standard platform height
- Material/surface finish: mild steel powder coated
- Resolution: scale intervals of 15,000 d or 30,000 d
- Drive-on ramp included with every platform
- No pit required
- IP65/NEMA Type 4 dust and water protection

## Applications

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

## Optional Configurations

- T14: Integrated column
- T4: Stop bar
- T15: Second ramp

## Part Number/Price

| RLWS PN | Minebea PN | Weighing Surface Dimensions | Platform Height | # Load Cells | Capacity | Readability | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **100970** | IFP4-150GG | 23.6 x 23.6 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 198 lb | $7,701.00 |
| **100973** | IFP4-300GG | 23.6 x 23.6 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 198 lb | $7,701.00 |
| **100974** | IFP4-600GG | 23.6 x 23.6 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 198 lb | $7,701.00 |
| **100975** | IFP4-1000GG | 23.6 x 23.6 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 198 lb | $7,701.00 |
| **100984** | IFP4-150IG | 31.5 x 23.6 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 221 lb | $7,814.00 |
| **100986** | IFP4-300IG | 31.5 x 23.6 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 221 lb | $7,814.00 |
| **100987** | IFP4-600IG | 31.5 x 23.6 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 221 lb | $7,814.00 |
| **100988** | IFP4-1000IG | 31.5 x 23.6 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 221 lb | $7,814.00 |
| **100991** | IFP4-150II | 31.5 x 31.5 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 243 lb | $7,888.00 |
| **100992** | IFP4-300II | 31.5 x 31.5 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 243 lb | $7,888.00 |
| **100993** | IFP4-600II | 31.5 x 31.5 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 243 lb | $7,888.00 |
| **100994** | IFP4-1000II | 31.5 x 31.5 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 243 lb | $7,888.00 |
| **100995** | IFP4-1500II | 31.5 x 31.5 in | 25 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 243 lb | $7,888.00 |
| **101005** | IFP4-150LG | 39.4 x 23.6 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 243 lb | $7,888.00 |
| **101006** | IFP4-300LG | 39.4 x 23.6 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 243 lb | $7,888.00 |
| **101007** | IFP4-600LG | 39.4 x 23.6 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 243 lb | $7,888.00 |
| **101008** | IFP4-1000LG | 39.4 x 23.6 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 243 lb | $7,888.00 |
| **101009** | IFP4-1500LG | 39.4 x 23.6 in | 25 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 243 lb | $7,888.00 |
| **101010** | IFP4-150LI | 39.4 x 31.5 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 265 lb | $7,996.00 |
| **101011** | IFP4-300LI | 39.4 x 31.5 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 265 lb | $7,996.00 |
| **101012** | IFP4-600LI | 39.4 x 31.5 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 265 lb | $7,996.00 |
| **101013** | IFP4-1000LI | 39.4 x 31.5 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 265 lb | $7,996.00 |
| **101014** | IFP4-1500LI | 39.4 x 31.5 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 265 lb | $7,996.00 |
| **101015** | IFP4-150LL | 39.4 x 39.4 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 375 lb | $8,519.00 |









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# IF Series

Painted Steel Platforms

## Part Number/Price

| RLWS PN | Minebea PN | Weighing Surface Dimensions | Platform Height | # Load Cells | Capacity | Readability | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **101016** | IFP4-300LL | 39.4 x 39.4 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 375 lb | $8,519.00 |
| **101017** | IFP4-600LL | 39.4 x 39.4 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 375 lb | $8,519.00 |
| **101018** | IFP4-1000LL | 39.4 x 39.4 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 375 lb | $8,519.00 |
| **101019** | IFP4-1500LL | 39.4 x 39.4 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 376 lb | $8,519.00 |
| **101020** | IFP4-3000LL | 39.4 x 39.4 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 376 lb | $8,519.00 |
| **101021** | IFP4-150NL | 49.2 x 39.4 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 397 lb | $8,685.00 |
| **101022** | IFP4-300NL | 49.2 x 39.4 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 397 lb | $8,685.00 |
| **101023** | IFP4-600NL | 49.2 x 39.4 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 397 lb | $8,685.00 |
| **101024** | IFP4-1000NL | 49.2 x 39.4 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 397 lb | $8,685.00 |
| **101025** | IFP4-1500NL | 49.2 x 39.4 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 397 lb | $8,685.00 |
| **101026** | IFP4-3000NL | 49.2 x 39.4 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 397 lb | $8,685.00 |
| **101027** | IFP4-150NN | 49.2 x 49.2 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 481 lb | $9,011.00 |
| **101028** | IFP4-300NN | 49.2 x 49.2 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 481 lb | $9,011.00 |
| **101029** | IFP4-600NN | 49.2 x 49.2 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 481 lb | $9,011.00 |
| **101030** | IFP4-1000NN | 49.2 x 49.2 in | 35 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 481 lb | $9,011.00 |
| **101031** | IFP4-1500NN | 49.2 x 49.2 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 481 lb | $9,011.00 |
| **101032** | IFP4-3000NN | 49.2 x 49.2 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 481 lb | $9,011.00 |
| **101033** | IFP4-150RN | 59.1 x 49.2 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 547 lb | $9,491.00 |
| **101034** | IFP4-300RN | 59.1 x 49.2 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 547 lb | $9,491.00 |
| **101035** | IFP4-600RN | 59.1 x 49.2 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 547 lb | $9,491.00 |
| **101036** | IFP4-1000RN | 59.1 x 49.2 in | 35 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 547 lb | $9,491.00 |
| **101037** | IFP4-1500RN | 59.1 x 49.2 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 547 lb | $9,491.00 |
| **101038** | IFP4-3000RN | 59.1 x 49.2 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 547 lb | $9,491.00 |
| **101039** | IFP4-150RR | 59.1 x 59.1 in | 35 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 628 lb | $10,016.00 |
| **101040** | IFP4-300RR | 59.1 x 59.1 in | 35 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 628 lb | $10,016.00 |
| **101041** | IFP4-600RR | 59.1 x 59.1 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 628 lb | $10,016.00 |
| **101042** | IFP4-1000RR | 59.1 x 59.1 in | 45 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 628 lb | $10,016.00 |
| **101043** | IFP4-1500RR | 59.1 x 59.1 in | 45 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 628 lb | $10,016.00 |
| **101044** | IFP4-3000RR | 59.1 x 59.1 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 628 lb | $10,016.00 |
| **101045** | IFP4-150WR | 78.7 x 59.1 in | 35 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 739 lb | $10,347.00 |
| **101046** | IFP4-300WR | 78.7 x 59.1 in | 35 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 739 lb | $10,347.00 |
| **101047** | IFP4-600WR | 78.7 x 59.1 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 739 lb | $10,347.00 |
| **101048** | IFP4-1000WR | 78.7 x 59.1 in | 45 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 739 lb | $10,347.00 |
| **101049** | IFP4-1500WR | 78.7 x 59.1 in | 45 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 739 lb | $10,347.00 |
| **101050** | IFP4-3000WR | 78.7 x 59.1 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 739 lb | $10,347.00 |





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# IF Series

Stainless Steel Platform Scale

## Specifications

**Cable Length:**
6 m (19.7 ft)

**Ingress Protection Rating:**
IP68

**Load Cells:**
Four hermetically sealed IP68

**Regulatory Compliance:**
HACCP, FDA, Class 10,000 clean rooms (US Federal Standard 209D)

**Warranty:**
Two-year limited warranty



*Does not represent standard models (Shown with additional optional features)*

## Standard Features

- Each IF Series stainless steel platform is built with an IP68 protection rating
- Capacities from 330 lb to 6,614 lb with resolutions up to 30,000 d
- Various portability options utilizing the unique MoveLine weighing platform
- Ultra low profile: standard platform height
- Material/surface finish: 304 bead-blasted stainless steel
- Drive-on ramp included with every platform
- No pit required
- Convenient for application-oriented weighing systems from processing to the chemical industry
- All units built for easy cleaning and disinfection to meet HACCP and FDA requirements for the food/pharmaceutical industries

## Optional Configurations

- L6: IP69K kit
- T4: Stop bar
- T9: Bottom plate
- T5: Towing bar
- T6: Two handles, two rollers
- T13: Four handles
- T14: Integrated column
- T15: 2nd ramp
- Pressure lift (not available for 30,000d models)

*Note: Consult factory for lifting device options and compatibility of combined options*

## Applications

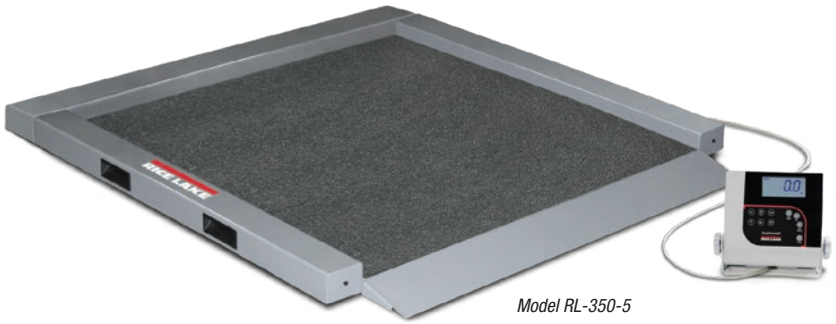
- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing



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# RL-350-5 Single-ramp Portable Bariatric Wheelchair Scale

34 Inches Wide



*Model RL-350-5*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 34 in x 34 in x 2.22 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met (pending)

**Warranty:**
Two-year limited warranty

## Standard Features

- Integrated handles and wheels for easy transport
- Single ramp
- Large, stable scale base
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- BMI (body mass index) function
- Hold function
- 10 ft cable between scale base and indicator

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150703** | RL-350-5 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,681.00 |
| **205976** | RL-350-5BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,873.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150703** | RL-350-5 | 43 | 43 | 11 | 162 | 147 | 162 |
| **205976** | RL-350-5BLE | 43 | 43 | 11 | 162 | 147 | 162 |

## Options/Accessories

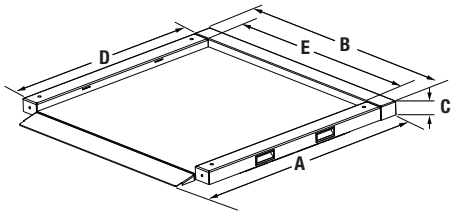
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 41 | 104.1 |
| B | 40 | 101.6 |
| C | 2.2 | 5.6 |
| D | 34 | 86.4 |
| E | 34 | 86.4 |



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# RL-350-6 Dual-ramp Portable Bariatric Wheelchair Scale

34 Inches Wide

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 34 in x 34 in x 2.22 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

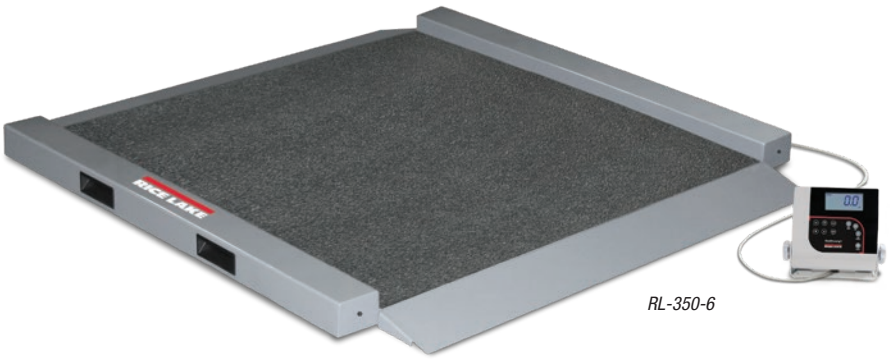
**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Approvals:**
c-Met (pending)

**Warranty:**
Two-year limited warranty




*RL-350-6*

## Standard Features

- Integrated handles and wheels for easy transport
- Dual ramp
- Large, stable scale base
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- BMI (body mass index) function
- Hold function
- 10 ft cable between scale base and indicator

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150704** | RL-350-6 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,681.00 |
| **205974** | RL-350-6BLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,873.00 |

## Shipping Weight

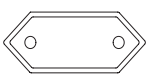
| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150704** | RL-350-6 | 43 | 43 | 11 | 154 | 147 | 154 |
| **205974** | RL-350-6BLE | 43 | 43 | 11 | 154 | 147 | 154 |

## Options/Accessories

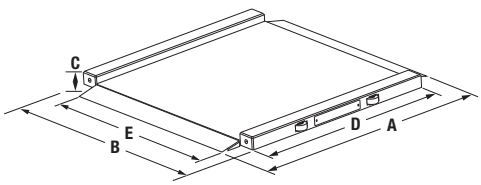
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

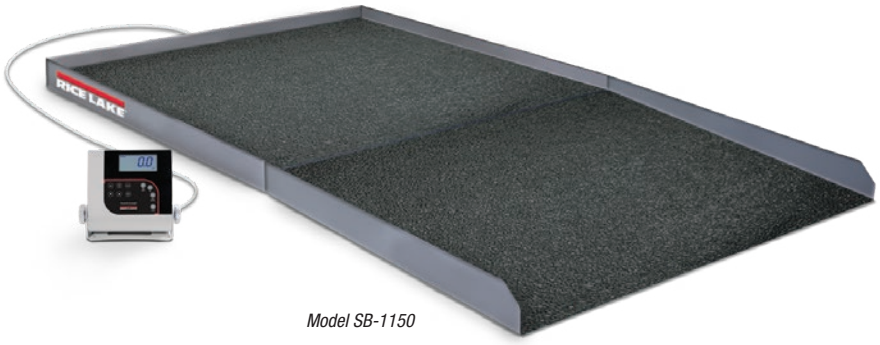
| | Inches | Centimeters |
|---|---|---|
| A | 41 | 104.1 |
| B | 40 | 101.6 |
| C | 2.2 | 5.6 |
| D | 34 | 86.4 |
| E | 34 | 86.4 |





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# SB-1150 Summit™ Bariatric Wheelchair Scale




*Model SB-1150*

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 36 in x 36 in x 4 in

**Ramp Dimensions:**
(W x L x H) 36 in x 28.5 in x 4 in

**Display:**
5-digit LCD display, 0.75 in (1.9 mm) digit height

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline (included)

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (14° C to 40° C)

**Warranty:**
Two-year limited warranty

**Approvals:**
c-Met (pending)

## Standard Features

- Heavy-duty mild steel construction
- Single ramp
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- 10 ft cable between scale base and display

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150706** | SB-1150 | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,540.00 |
| **205977** | SB-1150BLE | with Bluetooth® BLE 4.0 | $1,763.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150706** | SB-1150 | 49 | 48 | 24 | 363 | 407 | 407 |
| **205977** | SB-1150BLE | 49 | 48 | 24 | 363 | 407 | 407 |

## Options/Accessories

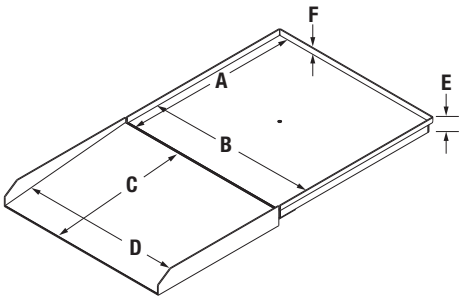
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 36 | 91.4 |
| B | 36 | 91.4 |
| C | 28.5 | 72.4 |
| D | 36 | 91.4 |
| E | 4 | 10.2 |
| F | 1 | 2.5 |



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# SD-1150-WP Dialysis Wheelchair Scale

## Specifications

**Capacity:**
1,000 lb x 0.2 lb (450 kg x 0.1 kg)

**Platform Dimensions:**
(W x L x H) 36 in x 36 in x 3 in

**Power:**
9 VDC, provided by six AA alkaline batteries (included) or AC adaptor (optional)

**Battery Type:**
Six AA alkaline

**Battery Use:**
25 hours continuous use with batteries
Automatic power-off can be configured

**Operating Temperature:**
50° F to 104° F (10° C to 40° C)

**Display:**
5-digit LCD display, 0.75 in (1.9 cm) digit height

**Warranty:**
Two-year limited warranty

**Approvals:**
c-Met (pending)




*Wall mounted indicator, cable enclosed in customer supplied conduit.*

*Model SD-1150-WP*

## Standard Features

- Package includes scale, pit frame, handrail and indicator
- Heavy-duty mild steel construction
- Handrail for added patient safety
- Large 1-inch LCD display
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EHR capable
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated

## Part Number/Price

| Part # | Model # | Capacity | Price |
|---|---|---|---|
| **150707** | SD-1150-WP | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with USB | $1,781.00 |
| **205978** | SD-1150-WPBLE | 1,000 lb x 0.2 lb (450 kg x 0.1 kg) with Bluetooth® BLE 4.0 | $1,962.00 |

## Shipping Weight

| Part # | Model # | L (in) | W (in) | H (in) | Package Wgt. (lb) | Dim Wgt. (lb) | Shipping Wgt. (lb) |
|---|---|---|---|---|---|---|---|
| **150707** | SD-1150-WP | 40 | 39 | 15 | 246 | 169 | 246 |
| **205978** | SD-1150-WPBLE | 40 | 39 | 15 | 246 | 169 | 246 |

## Options/Accessories

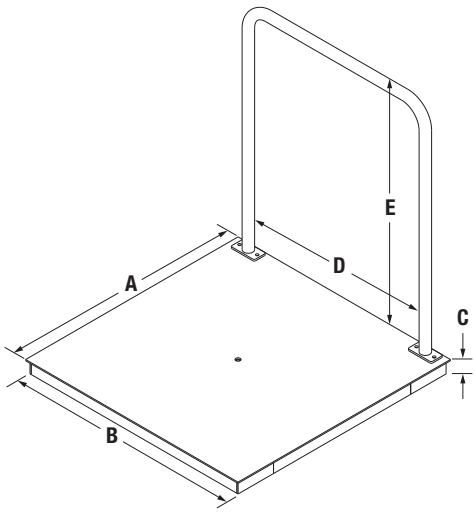
| Part # | Description | Price |
|---|---|---|
| **133077** † | 9 VDC adaptor, 120 V/230V auto switching | $15.00 |
| **102508** †† | 9 VDC adaptor, 230 V | $20.00 |
| **81076** | Epson TM-U220 tape printer | $420.00 |
| **186830** | Printer cable, 25-pin D-Sub male to RJ-45, 6 ft | $65.00 |



† NEMA 1-15 Plug



†† CEE 7/16 Plug




## Dimensions

| | Inches | Centimeters |
|---|---|---|
| A | 36 | 91.4 |
| B | 36 | 91.4 |
| C | 3 | 7.6 |
| D | 31.5 | 80.0 |
| E | 37 | 94.0 |





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# IF Series

Stainless Steel Platforms

## Part Number/Price

| RLWS PN | Minebea PN | Weighing Surface Dimensions | Platform Height | # Load Cells | Capacity | Readability | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **101266** | IFS4-150GG | 23.6 x 23.6 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 198 lb | $11,861.00 |
| **101267** | IFS4-300GG | 23.6 x 23.6 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 198 lb | $11,861.00 |
| **101268** | IFS4-600GG | 23.6 x 23.6 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 198 lb | $11,861.00 |
| **101269** | IFS4-1000GG | 23.6 x 23.6 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 198 lb | $12,571.00 |
| **101270** | IFS4-150IG | 31.5 x 23.6 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 221 lb | $12,073.00 |
| **101274** | IFS4-300IG | 31.5 x 23.6 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 221 lb | $12,073.00 |
| **101275** | IFS4-600IG | 31.5 x 23.6 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 221 lb | $12,073.00 |
| **101279** | IFS4-1000IG | 31.5 x 23.6 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 221 lb | $12,803.00 |
| **101281** | IFS4-150II | 31.5 x 31.5 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 243 lb | $12,288.00 |
| **101282** | IFS4-300II | 31.5 x 31.5 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 243 lb | $12,288.00 |
| **101283** | IFS4-600II | 31.5 x 31.5 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 243 lb | $12,288.00 |
| **101284** | IFS4-1000II | 31.5 x 31.5 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 243 lb | $13,030.00 |
| **101285** | IFS4-1500II | 31.5 x 31.5 in | 25 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 243 lb | $13,030.00 |
| **101286** | IFS4-150LG | 39.4 x 23.6 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 243 lb | $12,720.00 |
| **101287** | IFS4-300LG | 39.4 x 23.6 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 243 lb | $12,720.00 |
| **101288** | IFS4-600LG | 39.4 x 23.6 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 243 lb | $12,720.00 |
| **101289** | IFS4-1000LG | 39.4 x 23.6 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 243 lb | $13,481.00 |
| **101290** | IFS4-1500LG | 39.4 x 23.6 in | 25 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 243 lb | $13,481.00 |
| **101291** | IFS4-150LI | 39.4 x 31.5 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 265 lb | $13,162.00 |
| **101293** | IFS4-300LI | 39.4 x 31.5 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 265 lb | $13,162.00 |
| **101294** | IFS4-600LI | 39.4 x 31.5 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 265 lb | $13,162.00 |
| **101295** | IFS4-1000LI | 39.4 x 31.5 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 265 lb | $13,952.00 |
| **101296** | IFS4-1500LI | 39.4 x 31.5 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 265 lb | $13,952.00 |
| **101304** | IFS4-150LL | 39.4 x 39.4 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 375 lb | $13,788.00 |
| **101305** | IFS4-300LL | 39.4 x 39.4 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 375 lb | $13,788.00 |
| **101306** | IFS4-600LL | 39.4 x 39.4 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 375 lb | $13,788.00 |
| **101307** | IFS4-1000LL | 39.4 x 39.4 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 375 lb | $14,624.00 |
| **101308** | IFS4-1500LL | 39.4 x 39.4 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 375 lb | $14,624.00 |
| **101309** | IFS4-3000LL | 39.4 x 39.4 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 375 lb | $14,624.00 |
| **101310** | IFS4-150NL | 49.2 x 39.4 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 397 lb | $14,361.00 |
| **101311** | IFS4-300NL | 49.2 x 39.4 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 397 lb | $14,361.00 |
| **101312** | IFS4-600NL | 49.2 x 39.4 in | 25 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 397 lb | $14,361.00 |
| **101313** | IFS4-1000NL | 49.2 x 39.4 in | 25 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 397 lb | $15,225.00 |
| **101314** | IFS4-1500NL | 49.2 x 39.4 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 397 lb | $15,225.00 |
| **101315** | IFS4-3000NL | 49.2 x 39.4 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 397 lb | $15,225.00 |
| **101317** | IFS4-150NN | 49.2 x 49.2 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 481 lb | $14,993.00 |
| **101318** | IFS4-300NN | 49.2 x 49.2 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 481 lb | $14,993.00 |
| **101319** | IFS4-600NN | 49.2 x 49.2 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 481 lb | $14,993.00 |
| **101320** | IFS4-1000NN | 49.2 x 49.2 in | 35 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 481 lb | $15,893.00 |
| **101321** | IFS4-1500NN | 49.2 x 49.2 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 481 lb | $15,893.00 |
| **101322** | IFS4-3000NN | 49.2 x 49.2 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 481 lb | $15,893.00 |
| **101323** | IFS4-150RN | 59.1 x 49.2 in | 25 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 547 lb | $15,587.00 |
| **101324** | IFS4-300RN | 59.1 x 49.2 in | 25 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 547 lb | $15,587.00 |
| **101325** | IFS4-600RN | 59.1 x 49.2 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 547 lb | $15,587.00 |
| **101326** | IFS4-1000RN | 59.1 x 49.2 in | 35 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 547 lb | $16,523.00 |
| **101327** | IFS4-1500RN | 59.1 x 49.2 in | 35 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 547 lb | $16,523.00 |





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## Part Number/Price

| RLWS PN | Minebea PN | Weighing Surface Dimensioms | Platform Height | # Load Cells | Capacity | Readability | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **101328** | IFS4-3000RN | 59.1 x 49.2 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 628 lb | $16,523.00 |
| **101329** | IFS4-150RR | 59.1 x 59.1 in | 35 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 628 lb | $16,190.00 |
| **101330** | IFS4-300RR | 59.1 x 59.1 in | 35 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 628 lb | $16,190.00 |
| **101331** | IFS4-600RR | 59.1 x 59.1 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 628 lb | $16,190.00 |
| **101332** | IFS4-1000RR | 59.1 x 59.1 in | 45 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 628 lb | $17,165.00 |
| **101333** | IFS4-1500RR | 59.1 x 59.1 in | 45 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 628 lb | $17,165.00 |
| **101334** | IFS4-3000RR | 59.1 x 59.1 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 739 lb | $17,165.00 |
| **101335** | IFS4-150WR | 78.7 x 59.1 in | 35 mm | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 739 lb | $16,801.00 |
| **101337** | IFS4-300WR | 78.7 x 59.1 in | 35 mm | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 739 lb | $16,801.00 |
| **101338** | IFS4-600WR | 78.7 x 59.1 in | 35 mm | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 739 lb | $16,801.00 |
| **101339** | IFS4-1000WR | 78.7 x 59.1 in | 45 mm | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 739 lb | $17,809.00 |
| **101340** | IFS4-1500WR | 78.7 x 59.1 in | 45 mm | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 739 lb | $17,809.00 |
| **101341** | IFS4-3000WR | 78.7 x 59.1 in | 45 mm | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 739 lb | $17,809.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **T4** | Stop bar | Consult |
| **T5** | Tow bar and Stop bar | Consult |
| **T6** | 2 handles and 2 rollers | Consult |
| **T7** | Retractable wheels (not available with the GG and IG models) | Consult |
| **T9** | Bottom plate | Consult |
| **Stainless Steel** | | |
| **R2** | 316, T1, 2B cold-rolled steel, electropolished stainless steel | Consult |
| **R6** | 304, 2B cold-rolled steel, electropolished stainless steel | Consult |

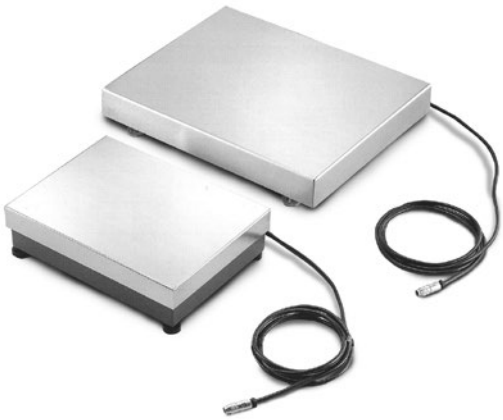




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# IS Series

Weighing Platforms



## Standard Features

- The standard RS-485 interface is X-bus compatible. An RS-232C interface is optionally available. Power requirements range from 10.6 VDC to 30 VDC.
- At the touch of the unique ISO TEST key, the IS platform calibrates and adjusts itself automatically using a built-in calibration weight
- High internal resolution guarantees reliable weight readouts
- Weighing results: up to 50 times/second
- All scales come standard with stainless steel load plate (wrap-around design optional). High IP rating for ideal protection.
- Internal Calibration (ISEDE and ISIGG models only)

## Accessories and Options

- A complete selection of options and accessories are available, including interfaces, cables and connectors, power supplies, mechanical accessories, software and mechanical security devices

## Specifications

**Indicator Connectivity:**
Combics UV1

**Models Sensing:**
Force motor cell

**Cable Length:**
6 meters

**Stability:**
Weight stabilizes 1.5 second

**Power Requirements:**
10.6 VDC to 30 VDC supplied by external power Supply, battery pack or Combics IS indicator

**Weighing Design:**
Electro magnetic

**Indicators Options:**
Combics UVI models

**Construction:**
Stainless steel platforms
Die-cast or galvanized base construction (model dependent)

**Ingress Protection Rating:**
BBD/DCP: IP54
EDE: IP65
IGG: IP67

**Warranty:**
Two-year limited warranty
Accessories: One-year limited warranty





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## Part Number/Price

| RLWS PN | Minebea PN | Platform Size | # Load Cells | Capacity Readability | | Capacity Readability | | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|
| **174127** | ISBBP-06-H | 4.5 in Ø | 1 | 1.6 lb | 0.00002 | 0.62 kg | 0.001 g | 19 lb | $3,334.00 |
| **174128** | ISBBP-3-H | 7.1 in x 7.1 in | 1 | 6.8 lb | 0.00002 | 3.1 kg | 0.01 g | 19 lb | $2,911.00 |
| **174129** | ISBBP-6-H | 7.1 in x 7.1 in | 1 | 13.7 lb | 0.00002 | 6.2 kg | 0.01 g | 19 lb | $3,705.00 |
| **102003** | ISDCS-16-H | 15.8 in x 11.8 in | 1 | 35 lb | 0.0002 | 16 kg | 0.1 g | 41 lb | $4,653.00 |
| **102004** | ISDCS-35-H | 15.8 in x 11.8 in | 1 | 75 lb | 0.0002 | 34 kg | 0.1 g | 41 lb | $5,711.00 |
| **102005** | ISEDE-64-SV1 | 15.8 in x 11.8 in | 1 | 141 lb | 0.002 | 64 kg | 1 g | 41 lb | $5,552.00 |
| **102006** | ISEDE-64-HV1 | 15.8 in x 11.8 in | 1 | 141 lb | 0.0002 | 64 kg | 0.1 g | 41 lb | $7,617.00 |
| **102008** | ISIGG-150-HV1 | 32 in x 24 in | 1 | 330 lb | 0.002 | 150 kg | 1 g | 185 lb | $7,923.00 |
| **102009** | ISIGG-300-HV1 | 32 in x 24 in | 1 | 660 lb | 0.005 | 300 kg | 2 g | 185 lb | $7,923.00 |
| **Special Order** | | | | | | | | | |
| **102010** | ISEDE-16-DS1 | 15.8 in x 11.8 in | 1 | 35 lb | 0.00002 | 16 kg | 0.01 g | 41 lb | Consult |
| **102012** | ISIGG-150-DS1 | 32 in x 24 in | 1 | 330 lb | 0.0002 | 150 kg | 0.1 g | 185 lb | $8,503.00 |
| **102013** | ISIGG-300-DS1 | 32 in x 24 in | 1 | 660 lb | 0.0005 | 300 kg | 0.2 g | 185 lb | $8,959.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **Consult** | - | Interface Mode (RS-485/422) required with Combics II indicators | Consult |
| **Consult** | - | DC power supply to weigh platform | Consult |
| **Consult** | YCC05_001M5 | Cable, 25-Pin to 9-Pin D sub, cable for PC | Consult |

## Indicators

| RLWS PN | Description | Comments | Price |
|---|---|---|---|
| **115668** | CAISL1-UV1 | Combics 1 indicator for IS base, IP44 | $1,625.00 |
| **115670** | CAISL2-UV1 | Combics 2 indicator for IS base, IP44 | $1,891.00 |
| **Consult** | CAISL3-UV1 | Combics 3 indicator for IS base, IP44 | $2,121.00 |
| **115671** | CAIS1-UV1 | Combics 1 indicator for IS base, IP69K | $1,802.00 |
| **115673** | CAIS2-UV1 | Combics 2 indicator for IS base, IP69K | $2,155.00 |
| **115674** | CAIS3-UV1 | Combics 3 indicator for IS base,IP69K | $2,572.00 |



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MINEBEA INTEC

# Signum Ex Supreme, Explosion Proof

Bench Scale




## Standard Features

- Monolithic weighing system
- Resolution up to 620,000 d
- Stainless steel weighing pan
- IECEX/ATEX Zone 1/2/21/22
- FM Class I, II, III; Div. 1; Groups ABCDEFG and T4
- Stainless or painted versions
- Requires YPS02-XUR (RL # 46518) US hazardous area or YPS02-ZKR (RL# 46517) safe area connection

## APPROVALS

FM APPROVED

## Specifications

**Material:**
SIWSXBBP, SIWXSDCP – Stainless steel display unit, painted platform with stainless steel load plate
SIWXSBBS, SIWXSDCS – Brushed stainless steel

**IP Protection:**
IP65
IP44 Zone 1 ONLY: SIWXSBBP, SIWXSBBS 1.3 lb (0.6kg)

**Net Weight/Gross Weight:**
SIWXSBBP, SIWXSBBS : 19.8/23.8 lb (9.0/10.8 kg)
SIWXSDCP, SIWXSDCS : 33/39.6 lb (15.0/18.0 kg)

**Packaging Dimensions:**
SIWXSBBP, SIWXSBBS (W x D x H): 22.4 x 15.7 x 14.5 in (570 x 400 x 370 mm)
SIWXSDCP, SIWXSDCS (W x D x H): 20 x 17.3 x 16.1 in (510 x 440 x 410 mm)

**Operating Temperature:**
SIWXSBBP, SIWXSBBS 50° F to 104° F (10° C to 40° C)
SIWXSDCP, SIWXSDCS 14° F to 104° F (-10° C to 40° C)

**Data Interfaces:**
RS-232
Can be switched to RS-485 or RS-422 connection via 14-Pin round socket

**Supply Voltage:**
Via external power supply, connection via 14-Pin round socket (20 cm cable)

**Power Supply Hazardous Area:**
ATEX: YPSC01-X

**Power Supply Safe Area:**
ATEX: YPSC01-Z
FM/CSA: YPS02-ZKR (PN 46517)

**Battery Operation:**
Via external battery YRB02-X (103068) Charger PN 103069

**Cable Length:**
2 m ( 6.6 ft) between display unit and platform

**Warranty:**
Two-year limited warranty



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## Part Number/Price

| RLWS PN | Minebea PN | Description | Platform Dimensions | Price |
|---|---|---|---|---|
| **Painted** | | | | |
| **155866** | SIWXSBBP-3-06-H | 1.3 x 0.000002 lb (0.62 kg x 0.001 g) | 5 in ø | $6,679.00 |
| **155867** | SIWXSBBP-3-3-H | 6.8 x 0.00002 lb (3.1 kg x 0.01 g) | 7.1 x 7.1 in | $4,923.00 |
| **155868** | SIWXSBBP-3-6-H | 13.5 x 0.00002 lb (6.1 kg x 0.01 g) | 7.1 x 7.1 in | $5,980.00 |
| **155870** | SIWXSDCP-3-35-H | 75 x 0.0002 lb (35 kg x 0.1 g) | 13.7 x 9.7 in | $6,272.00 |
| **Stainless** | | | | |
| **155871** | SIWXSBBS-3-3-H | 6.8 x 0.00002 lb (3.1 kg x 0.01 g) | 7.1 x 7.1 in | $6,864.00 |
| **155872** | SIWXSBBS-3-6-H | 13.5 x 0.0002 lb (6.1 kg x 0.01 g) | 7.1 x 7.1 in | $7,913.00 |
| **155873** | SIWXSDCS-3-35-H | 75 x 0.0002 lb (35 kg x 0.1 g) | 13.7 x 9.7 in | $7,802.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **46518** | YPS02-XUR | Hazardous area power supply - (FM approved for use in the USA)<br>(8 ft. of intrinsic cable and 8 ft. of cable requiring hard wiring by licensed electrician) | $2,112.00 |
| **46517** | YPS02-ZKR | Safe area power supply (3 ft to wall plug and 65 ft of intrinsically safe cable to the scale) | $1,429.00 |
| **103055** | YDI05-ZU2 | Zener barrier hazardous area RS-232 to RS-232 converter, 14-Pin plug | $1,006.00 |
| **103059** | YDI05-ZU3 | Zener barrier hazardous area RS-422 to RS-232 (requires 6971413, RL 50232, power supply)<br>cable connection not included | $848.00 |
| **153218** | YDH01P | Column for DCP platforms, height 19 in, painted | $311.00 |
| **155884** | YDH02P | Column for BBP platforms, height 15.75 in, painted | $619.00 |
| **Consult** | YDH01CWSUS | Column for DCS platform, height 13 in, stainless steel | Consult |
| **Consult** | YDH02CWSUS | Column for DCS platform, height 19.6 in, stainless steel | Consult |
| **Consult** | YDH03CWSUS | Column for DCS platform, height 25.5 in, stainless steel | Consult |
| **Consult** | YDH02S | Column for BBS platform, height 15.75 in, stainless steel | Consult |
| **103068** | YRB02-X | Rechargeable battery (requires 103069 battery charger) | $1,689.00 |
| **103069** | YRB02-LD | Battery charger (requires power cord) | $391.00 |
| **103057** | YCC422-X | Cable without connectors for RS-422 | $16.00/ft |
| **102078** | 6971954 | Power cord | $45.00 |



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MINEBEA INTEC

# Combics 2 Ex, Explosion Proof

Digital Weight Indicator




## Standard Features

- Amber backlit LCD dot matrix display
- On/Off, Zero, Tare and Print/Data Keys
- Function keys for: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Two header line storage
- Battery charge status display (with connection of battery pack)
- Numeric keypad with two IDs for entering identifier codes and preset tare
- Date/time fully integrated
- GMP printable record
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional barcode scanner for preset tare, reference weight and ID entry
- Requires power supply

## APPROVALS

FM APPROVED

NTEP

## Applications Software Pre-installed

- Counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total, animal weighing.
- Ex approval: FM Class 1,2,3, Division 1, Groups ABCDEFG and temperature class T4.
- Weighbridge connectivity – maximum two precision weighing platforms or load cells, and one precision platform or 1 Combics Ex and one precision platform.
- Power supply can be provided by 110-220 VAC connections and a 24 VDC industrial power module (each suitable for hazardous and safe areas) and a rechargeable battery pack in stainless steel casing.

## Part Number/Price

| RLWS PN | Minebea PN | Description | Est. Weight | Price |
|---|---|---|---|---|
| **158644** | CAIXS2-U | Indicator, CAIXS2-U IP69K protection rated | 7 lb | $2,336.00 |
| **197168** | CAIXS2-UA19M26 | Indicator, CAIXS2 EX IS-X | 7 lb | $2,795.00 |

**IS power supply or battery pack required*

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **46518** | YPS02-XUR | Power supply, hazardous area, United States | $2,112.00 |
| **46517** | YPS02-ZKR | Power supply, safe area, 65 ft cable | $1,429.00 |
| **103068** | YRB02-X | Battery pack, 30+ hours (requires 103069) | $1,689.00 |
| **103069** | YRB02-LD | Charger for battery pack | $391.00 |
| **103054** | YCC02-XR14F02 | Quick disconnect cable, for Zener Barrier | $273.00 |
| **155882** | YDI05-ZU1 | Zener Barrier | $1,006.00 |
| **155918** | A19 | 485 interface (IS-X Base) | $190.00 |
| **155919** | M26 | Cable to IS-X | $269.00 |
| **105607** | YDH02CISUS | Wall mount bracket | $80.00 |
| **156440** | YDH01CWSUS | Post mount assembly for 10 x 10 in platforms, 13 in high | $200.00 |
| **156441** | YDH02CWSUS | Post mount assembly for 12 x 12 in platforms, 19 in high | $217.00 |
| **156442** | YDH03CWSUS | Post mount assembly for 18 x 18 in platforms, 29 in high | $250.00 |

## Specifications

**Load Cell:**
4 or 6 wire

**Supply Voltage:**
6 V

**Housing:**
304 stainless steel

**Ingress Protection Rating:**
IP69K/NEMA Type 4X

**Dimensions:**
(W x D x H): 11.9 x 7.4 x 3.5 in
(302.3 x 188 x 89 mm)

**Operating Temperature:**
14° F to 104° F (-10° C to 40° C)

**Warranty:**
Two-year limited warranty
Accessories: One-year limited warranty

**Approvals:**
NTEP: 19-055
FM approved



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# Combics, Explosion Proof

Bench and Floor Platform Scales

## Specifications

**Cable Length:**
Up to 30 x 30 - 10 ft
36 x 36 and over - 20 ft

**Operating Temperature:**
14° F to 104° F

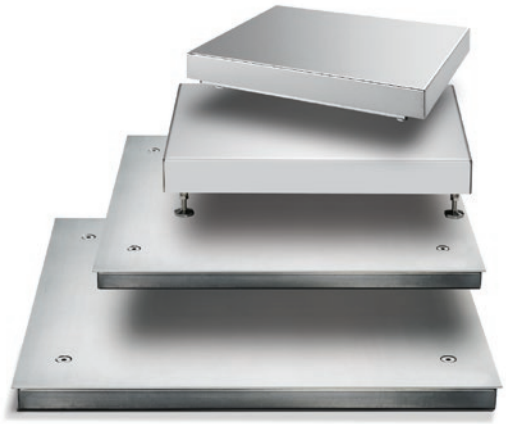
**Ingress Protection Rating:**
NEMA Type 4/IP67

**Indicator Option:**
CIXS3-U

**Warranty:**
Two-year limited warranty
Accessories: One-year limited warranty

**Approvals:**
FM approved Classes 1,2,3, Division 1, Groups ABCDEGFT4, US and Canadian hazardous areas, when used with CISX3-U or FCT01-X indicator





**GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator*

## Standard Features

- FM Approved: Classes 1,2,3, Division 1, Groups ABCDEGFT4, U.S. and Canadian hazardous areas, when used with CIX53-U
- Can be used in areas where explosive gas and dust mixtures occur
- Documentation to verify intrinsic safety available upon request
- Completely constructed with AISI 304 stainless steel
- All units are built for easy cleaning and disinfection and meet HACCP and FDA requirements for the food industry
- Load cells are hermetically sealed, IP68 protection rated
- Load cell cables are 10 ft (for bases up to 30 x 30 in) or 20 ft (for bases 36 x 36 in and larger)
- NEMA Type 4/IP67 protection rated
- Pit frames for flush mounting available
- High resolution 30,000 d

**APPROVALS**

FM APPROVED

## Applications

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing
- Regulatory Compliance: NEMA, HACCP, FDA, GLP/GMP*, FM

## Part Number/Price

| RLWS PN | Minebea PN | Dimensions | Height Adjustment | # Load Cells | Capacity | Readability | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| **100919** | CAPXS1U-10CC | 10 x 10 in | 2.37 in | 1 | 15 lb | 0.0005 | 6 kg | 0.0002 | 16 lb | $1,104.00 |
| **100920** | CAPXS1U-20CC | 10 x 10 in | 2.37 in | 1 | 30 lb | 0.001 | 15 kg | 0.0005 | 16 lb | $1,104.00 |
| **100921** | CAPXS1U-50CC | 10 x 10 in | 2.37 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 16 lb | $1,104.00 |
| **100922** | CAPXS1U-50DD | 12 x 12 in | 3.87 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 24 lb | $1,235.00 |
| **100923** | CAPXS1U-100DD | 12 x 12 in | 3.87 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 24 lb | $1,235.00 |
| **100924** | CAPXS1U-50EE | 18 x 18 in | 3.5 in | 1 | 60 lb | 0.002 | 30 kg | 0.001 | 62 lb | $1,528.00 |
| **100925** | CAPXS1U-100EE | 18 x 18 in | 3.5 in | 1 | 150 lb | 0.005 | 60 kg | 0.002 | 62 lb | $1,528.00 |
| **100926** | CAPXS1U-200EE | 18 x 18 in | 3.5 in | 1 | 200 lb | 0.01 | 100 kg | 0.005 | 62 lb | $1,528.00 |
| **100934** | CAPXS4U-250GG | 24 x 24 in | 3.31 in | 4 | 300 lb | 0.01 | 150 kg | 0.005 | 12 lb | $4,871.00 |
| **100935** | CAPXS4U-500GG | 24 x 24 in | 3.31 in | 4 | 600 lb | 0.02 | 300 kg | 0.01 | 12 lb | $4,871.00 |
| **100943** | CAPXS4U-500HH | 30 x 30 in | 3.31 in | 4 | 600 lb | 0.02 | 300 kg | 0.01 | 187 lb | $5,122.00 |
| **100944** | CAPXS4U-1000HH | 30 x 30 in | 3.31 in | 4 | 1500 lb | 0.05 | 600 kg | 0.02 | 187 lb | $5,122.00 |
| **100945** | CAPXS4U-1000KK | 36 x 36 in | 3.75 in | 4 | 1500 lb | 0.05 | 600 kg | 0.02 | 250 lb | $6,068.00 |
| **100946** | CAPXS4U-2500KK | 36 x 36 in | 3.75 in | 4 | 3000 lb | 0.1 | 1500 kg | 0.05 | 250 lb | $5,855.00 |
| **100947** | CAPXS4U-5000KK | 36 x 36 in | 3.75 in | 4 | 6000 lb | 0.2 | 3000 kg | 0.1 | 250 lb | $5,855.00 |
| **100949** | CAPXS4U-2500NN | 48 x 48 in | 3.75 in | 4 | 3000 lb | 0.1 | 1500 kg | 0.05 | 390 lb | $7,247.00 |
| **100950** | CAPXS4U-5000NN | 48 x 48 in | 3.75 in | 4 | 6000 lb | 0.2 | 3000 kg | 0.1 | 390 lb | $7,247.00 |





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MINEBEA INTEC

# IF Series, Explosion Proof

Weighing Platform Scales



*Shown with additional optional features*

## Standard Features

- Capacities from 150 kg to 3,000 kg with resolutions up to 30,000 d
- Ultra low profile: standard platform height is 35 mm; optional heights available as low as 25 mm
- Material/surface finish: 304 bead-blasted stainless steel
- Drive-on ramp included with every platform
- No pit required
- Convenient for application-oriented weighing systems from processing to the chemical industry
- Standard configuration: AISI 304 stainless steel

**APPROVALS**

FM APPROVED

## Optional Configurations

- Electro-polished finish
- AISI 304 electro-polished stainless steel platform
- AISI 316Ti electro-polished stainless steel platform
- Ingenious manually-operated lifting mechanism option (patented system) for effortless raising of the platform to facilitate cleaning underneath.
- R2: Cold rolled AISI 316Ti stainless steel, electro-polished
- R6: AISI 304 2b stainless steel, electro-polished
- T4: Stop bar
- T5: Tow bar and stop bar
- T6: Two handles and two rollers
- T7: Retractable wheels (reduces effective resolution to 15,000 dd)
- T9: Additional bottom plate
- T15: Second ramp
- T14: Integrated column
- T13: Four handles

## Applications

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

## Specifications

**Ingress Protection Rating:**
IP68

**Load Cells:**
Four hermetically sealed IP68

**Cable Length:**
19.7 ft (6 m)

**Regulatory Compliance:**
HACCP, FDA, Class 10,000 clean rooms (US Federal Standard 209D)

**Warranty:**
Two-year limited warranty

**Approvals:**
FM approved, IFXS4 series, are certified for use in Class 1,2,3, Div. 1, Groups ABCDEFT4 (Verification of Intrinsic Safety included; also covers any explosion-protected Minebea components combined with this platform series)

## Regulatory Compliance

- NEMA, HACCP, FDA, GLP/GMP*, Class 10,000 clean rooms (US Federal Standard 209D) (Equivalent to Class C in accordance with EEC-GWP), FM

  *GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator





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## Part Number/Price

| RLWS PN | Minebea PN | Weighing Surface Dimensions | # Load Cells | Capacity | Readability | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|
| **102530** | IFXS4-150GG | 23.6 x 23.6 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 198 lb | $12,247.00 |
| **102531** | IFXS4-300GG | 23.6 x 23.6 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 198 lb | $12,000.00 |
| **102532** | IFXS4-600GG | 23.6 x 23.6 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 198 lb | $12,371.00 |
| **102533** | IFXS4-1000GG | 23.6 x 23.6 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 198 lb | $12,434.00 |
| **102534** | IFXS4-150IG | 31.5 x 23.6 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 221 lb | $12,309.00 |
| **102536** | IFXS4-300IG | 31.5 x 23.6 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 221 lb | $12,247.00 |
| **102537** | IFXS4-600IG | 31.5 x 23.6 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 221 lb | $12,495.00 |
| **102538** | IFXS4-1000IG | 31.5 x 23.6 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 221 lb | $12,619.00 |
| **102540** | IFXS4-150II | 31.5 x 31.5 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 243 lb | $12,619.00 |
| **102541** | IFXS4-300II | 31.5 x 31.5 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 243 lb | $12,359.00 |
| **102542** | IFXS4-600II | 31.5 x 31.5 in | 4 | 1320 lb | 0.05 | 600 kg kg | 0.02 | 243 lb | $12,743.00 |
| **102543** | IFXS4-1000II | 31.5 x 31.5 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 243 lb | $12,865.00 |
| **102544** | IFXS4-1500II | 31.5 x 31.5 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 243 lb | $12,619.00 |
| **102545** | IFXS4-150LG | 39.4 x 23.6 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 243 lb | $12,743.00 |
| **102546** | IFXS4-300LG | 39.4 x 23.6 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 243 lb | $12,743.00 |
| **102547** | IFXS4-600LG | 39.4 x 23.6 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 243 lb | $12,990.00 |
| **102548** | IFXS4-1000LG | 39.4 x 23.6 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 243 lb | $13,360.00 |
| **102549** | IFXS4-1500LG | 39.4 x 23.6 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 243 lb | $12,990.00 |
| **102550** | IFXS4-150LI | 39.4 x 31.5 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 265 lb | $13,114.00 |
| **102551** | IFXS4-300LI | 39.4 x 31.5 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 265 lb | $13,237.00 |
| **102552** | IFXS4-600LI | 39.4 x 31.5 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 265 lb | $13,360.00 |
| **102553** | IFXS4-1000LI | 39.4 x 31.5 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 265 lb | $13,608.00 |
| **102554** | IFXS4-1500LI | 39.4 x 31.5 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 265 lb | $13,360.00 |
| **102555** | IFXS4-150LL | 39.4 x 39.4 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 375 lb | $13,856.00 |
| **102556** | IFXS4-300LL | 39.4 x 39.4 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 375 lb | $13,732.00 |
| **102557** | IFXS4-600LL | 39.4 x 39.4 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 375 lb | $13,856.00 |
| **102558** | IFXS4-1000LL | 39.4 x 39.4 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 375 lb | $14,227.00 |
| **102559** | IFXS4-1500LL | 39.4 x 39.4 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 375 lb | $13,856.00 |
| **102560** | IFXS4-3000LL | 39.4 x 39.4 in | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 375 lb | $13,856.00 |
| **102561** | IFXS4-150NL | 49.2 x 39.4 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 397 lb | $14,227.00 |
| **102562** | IFXS4-300NL | 49.2 x 39.4 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 397 lb | $14,351.00 |
| **102563** | IFXS4-600NL | 49.2 x 39.4 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 397 lb | $14,351.00 |
| **102564** | IFXS4-1000NL | 49.2 x 39.4 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 397 lb | $14,598.00 |
| **102565** | IFXS4-1500NL | 49.2 x 39.4 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 397 lb | $14,474.00 |
| **102566** | IFXS4-3000NL | 49.2 x 39.4 in | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 397 lb | $14,598.00 |
| **102567** | IFXS4-150NN | 49.2 x 49.2 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 481 lb | $14,844.00 |
| **102568** | IFXS4-300NN | 49.2 x 49.2 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 481 lb | $14,845.00 |
| **102569** | IFXS4-600NN | 49.2 x 49.2 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 481 lb | $15,093.00 |
| **102570** | IFXS4-1000NN | 49.2 x 49.2 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 481 lb | $14,969.00 |
| **102571** | IFXS4-1500NN | 49.2 x 49.2 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 481 lb | $14,969.00 |
| **102572** | IFXS4-3000NN | 49.2 x 49.2 in | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 481 lb | $14,969.00 |
| **102573** | IFXS4-150RN | 59.1 x 49.2 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 547 lb | $15,588.00 |
| **102574** | IFXS4-300RN | 59.1 x 49.2 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 547 lb | $15,265.00 |
| **102575** | IFXS4-600RN | 59.1 x 49.2 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 547 lb | $15,588.00 |
| **102576** | IFXS4-1000RN | 59.1 x 49.2 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 547 lb | $15,464.00 |
| **102577** | IFXS4-1500RN | 59.1 x 49.2 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 547 lb | $15,588.00 |

*Rails add 16.1 in to width*





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# IF Series, Explosion Proof

Weighing Platforms

## Part Number/Price

| RLWS PN | Minebea PN | Weighing Surface Dimensions | # Load Cells | Capacity | Readability | Capacity | Readability | Est. Weight | Price |
|---|---|---|---|---|---|---|---|---|---|
| **102578** | IFXS4-3000RN | 59.1 x 59.1 in | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 547 lb | $15,649.00 |
| **102579** | IFXS4-150RR | 59.1 x 59.1 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 628 lb | $15,861.00 |
| **102580** | IFXS4-300RR | 59.1 x 59.1 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 628 lb | $15,861.00 |
| **102581** | IFXS4-600RR | 59.1 x 59.1 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 628 lb | $16,206.00 |
| **102582** | IFXS4-1000RR | 59.1 x 59.1 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 628 lb | $16,082.00 |
| **102583** | IFXS4-1500RR | 59.1 x 59.1 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 628 lb | $16,081.00 |
| **102584** | IFXS4-3000RR | 59.1 x 59.1 in | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 628 lb | $15,861.00 |
| **102585** | IFXS4-150WR | 78.7 x 59.1 in | 4 | 330 lb | 0.01 | 150 kg | 0.005 | 739 lb | $16,454.00 |
| **102586** | IFXS4-300WR | 78.7 x 59.1 in | 4 | 660 lb | 0.02 | 300 kg | 0.01 | 739 lb | $16,454.00 |
| **102587** | IFXS4-600WR | 78.7 x 59.1 in | 4 | 1320 lb | 0.05 | 600 kg | 0.02 | 739 lb | $16,454.00 |
| **102588** | IFXS4-1000WR | 78.7 x 59.1 in | 4 | 2200 lb | 0.1 | 1000 kg | 0.05 | 739 lb | $16,454.00 |
| **102589** | IFXS4-1500WR | 78.7 x 59.1 in | 4 | 3300 lb | 0.1 | 1500 kg | 0.05 | 739 lb | $16,454.00 |
| **102590** | IFXS4-3000WR | 78.7 x 59.1 in | 4 | 6600 lb | 0.2 | 3000 kg | 0.1 | 739 lb | $16,454.00 |

*Rails add 16.1 in to width*

## Options/Accessories - Not Available On All Models

| Part # | Description | Price |
|---|---|---|
| **T4** | Stop bar | Consult |
| **T5** | Tow bar and stop bar | Consult |
| **T6** | Two handles and two rollers | Consult |
| **T7** | Retractable wheels | Consult |
| **T9** | Bottom plate | Consult |
| **T13** | Four handles | Consult |
| **T14** | Integrated column | Consult |
| **T15** | Second ramp | Consult |
| **Stainless Steel** | | |
| **R2** | 316, T1, 2B cold-rolled steel, electropolished stainless steel | Consult |
| **R6** | 304, 2B cold-rolled steel, electropolished stainless steel | Consult |

*Note: Consult factory for lifting device options and compatibility of combined options*





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# IS-X, Explosion Proof Scales

## Specifications

**Indicator Connectivity:**
Combics CAIXS2 with option

**Weighing Design:**
Electro magnetic

**Cable Length:**
9 ft (2.75 m)

**Stability:**
Weight stabilizes 1.5 second

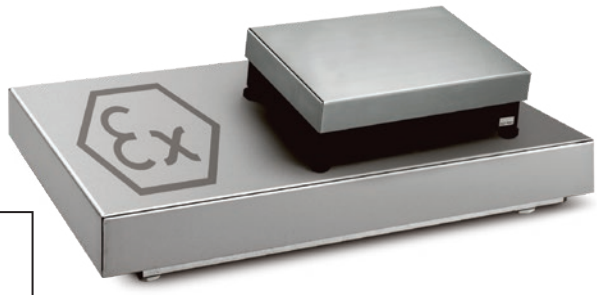
**Interface:**
RS-485 standard

**Power Requirements:**
Requires YPS02-XKR (46518) hazardous area power supply or YPS02-ZKR (46517) safe area power supply

**Construction:**
Stainless steel platform, die cast or galvanized base construction (model dependent)

**Ingress Protection:**
CCE: IP54
EDE: IP65
IGG: IP67

**Warranty:**
Two-year limited warranty; accessories one year



**Sample Order Configuration:**
1. Select base
2. Select two power supplies – base and indicator

158644 CAIXS2
197168 CAIXS2 with A19 and M6 option

## Standard Features

- Network-capable: RS-485 interface is X-bus compatible
- Built-in internal calibration function: at the touch of the unique ISO TEST Key, the IS platform calibrates and adjusts itself automatically using a built-in calibration weight
- High resolution: guarantees reliable weight readouts
- Fast weighing results: up to 50 times/second
- Stainless steel load plate: all scales come standard with stainless steel load plate
- High IP rating for ideal protection

## Part Number/Price

| RLWS PN | Minebea PN | Description | Pan size | Price |
|---|---|---|---|---|
| **Stainless Steel** | | | | |
| **181654** | ISXBBS-3-H | 6.8 lb x 0.00002 lb (3.1 kg x 0.01 g) | 7.1 x 7.1 in | $5,774.00 |
| **155875** | ISXBBS-6-H | 13.4 lb x 0.00002 lb (6.1 kg x 0.01 g) | | $4,465.00 |
| **Painted Steel** | | | | |
| **155877** | IS16EDE-HX | 35 lb x 0.0002 lb (16 kg x 0.1 g) | 15.8 x 11.8 in | $5,322.00 |
| **155878** | IS34EDE-HX | 75 lb x 0.0002 lb (34 kg x 0.1 g) | 15.8 x 11.8 in | $5,649.00 |
| **155879** | IS64EDE-SX | 141 lb x 0.002 lb (64 kg x 1 g) | 15.8 x 11.8 in | $6,549.00 |
| **156371** | IS64EDE-HX | 141 lb x 0.0002 lb (64 kg x 0.1 g) | 15.8 x 11.8 in | $8,318.00 |

## Options/Accessories

| RLWS PN | Minebea PN | Description | Price |
|---|---|---|---|
| **Power Supply Required (one for base and one for indicator)** | | | |
| **46518** | YPS02-XUR | Hazardous area power supply | $2,112.00 |
| **46517** | YPS02-ZKR | Safe area power supply | $1,429.00 |
| **Indicator and Options Required** | | | |
| **158644** | CAIXS2 | Combics Ex (requires 155918 and 155919) | $2,336.00 |
| **197168** | CAIXS2-UA19M26 | Indicator, CAIXS2 EX IS-X | $2,795.00 |
| **155918** | A19 | 485 Interface | $190.00 |
| **155919** | M26 | Cable to IS-X | $269.00 |
| **155882** | YDI05-ZU1 | Zener barrier, RS-232, 20 m cable open end | $1,006.00 |
| **103055** | YDI05-ZU2 | Zener barrier, RS-232, 14-pin end | $1,006.00 |
| **103059** | YDI05-ZU3 | Zener barrier, RS-422, RS-232 (requires 6971413 RL# 50232 power supply) cable connection not included | $848.00 |

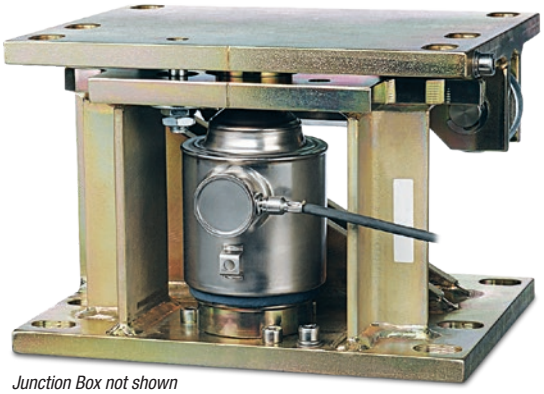


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MINEBEA INTEC

# Inteco

Zinc-Plated Steel Star Mount Kits



*Junction Box not shown*



*The zinc-plated star mount kit is optimized for the Inteco load cell family to guarantee the best weighing performance. It covers the capacity range from 500 kg up to 300 t. The special design allows a horizontal displacement in the unconstrained direction of the load cell. All constrainers are 100% maintenance free. There are two different materials available: stainless steel or mild steel zinc plated. Its unique design includes a dummy functionality to install the vessel without load cell. The top load disc remains in place even when the load cell is not mounted. The design principle integrates a lift-off protection and built-in stops.*

## Standard Features

- Fast and easy installation
- Mounting kit with dummy function included
- Designed to withstand high lateral forces
- Maintenance-free constrainer and module construction
- Patent pending DE 101 38 435A1
- Approval Certificate “Germanischer Lloyd” No. 47-458-03HH
- Load cell output 1 mV/V
- 15-year load cell warranty
- 10,000 division load cell
- 45 kN zinc-plated mount destructive lateral force; 20 kN permissible lift-off protection
- Foot 20 kN lateral force and lift-off protection

## LOAD CELL CERTIFICATIONS

FM APPROVED

Ex

## Zinc-Plated Steel Models

| Total Capacity | | Load Cell Capacity | | RLWS Part# | Minebea Part # | Price |
|---|---|---|---|---|---|---|
| **3-Module Kit** | | | | | | |
| 3,300 lb | 1,500 kg | 1,100 lb | 500 kg | **158706** | Inteco-1531-U | $6,997.75 |
| 6,600 lb | 3,000 kg | 2,200 lb | 1,000 kg | **158708** | Inteco-3031-U | $6,997.75 |
| 13,200 lb | 6,000 kg | 4,400 lb | 2,000 kg | **158710** | Inteco-6031-U | $6,997.75 |
| 19,800 lb | 9,000 kg | 6,600 lb | 3,000 kg | **158712** | Inteco-9031-U | $6,997.75 |
| 33,000 lb | 15,000 kg | 11,025 lb | 5,000 kg | **158716** | Inteco-15031-U | $7,210.75 |
| 66,000 lb | 30,000 kg | 22,050 lb | 10,000 kg | **158719** | Inteco-30031-U | $7,786.75 |
| 132,000 lb | 60,000 kg | 44,100 lb | 20,000 kg | **158721** | Inteco-60031-U | $8,050.75 |
| 198,000 lb | 90,000 kg | 66,140 lb | 30,000 kg | **158723** | Inteco-90031-U | $8,389.75 |
| 330,500 lb | 150,000 kg | 110,200 lb | 50,000 kg | **158725** | Inteco-150031-U | $9,205.75 |
| **4-Module Kit** | | | | | | |
| 4,400 lb | 2,000 kg | 1,100 lb | 500 kg | **158707** | Inteco-2041-U | $8,654.75 |
| 8,800 lb | 4,000 kg | 2,200 lb | 1,000 kg | **158709** | Inteco-4041-U | $8,654.75 |
| 17,600 lb | 8,000 kg | 4,400 lb | 2,000 kg | **158711** | Inteco-8041-U | $8,654.75 |
| 26,400 lb | 12,000 kg | 6,600 lb | 3,000 kg | **158713** | Inteco-12041-U | $8,654.75 |
| 44,000 lb | 20,000 kg | 11,025 lb | 5,000 kg | **158718** | Inteco-20041-U | $8,938.75 |
| 88,000 lb | 40,000 kg | 22,050 lb | 10,000 kg | **158720** | Inteco-40041-U | $9,706.75 |
| 176,000 lb | 80,000 kg | 44,100 lb | 20,000 kg | **158722** | Inteco-80041-U | $10,058.75 |
| 264,500 lb | 120,000 kg | 66,140 lb | 30,000 kg | **158724** | Inteco-120041-U | $10,510.75 |
| 440,500 lb | 200,000 kg | 110,200 lb | 50,000 kg | **158726** | Inteco-200041-U | $11,598.75 |

*Complete Kit Includes:*
*Inteco load cell, PR6001/10 (11) mount, junction box, load cell extension cable;*
*Four-mount kit includes PR6001/00 or (01) N foot*



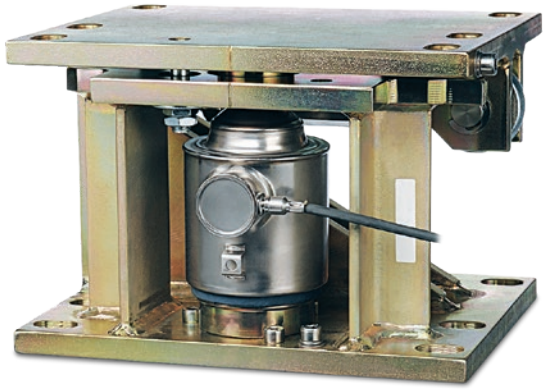
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# Inteco

## Stainless Steel Star Mount Kits

*The stainless steel star mount kit is optimized for the Inteco load cell family to guarantee the best weighing performance. It covers the capacity range from 500 kg up to 300 t. The special design allows a horizontal displacement in the unconstrained direction of the load cell. All constrainers are 100% maintenance free. There are two different materials available: stainless steel or mild steel zinc plated. Its unique design includes a dummy functionality to install the vessel without load cell. The top load disc remains in place even when the load cell is not mounted. The design principle integrates a lift-off protection and built-in stops.*





*Junction Box not shown*

## Standard Features

- Fast and easy installation
- Mounting kit with dummy function included
- Inteco load cell for capacities ranging from 500 kg to 300 t
- Designed to withstand high lateral forces
- Maintenance free constrainer and module construction
- Patent pending DE 101 38 435A1
- Approval Certificate “Germanischer Lloyd” No. 47-458-03HH
- Load cell output 1 mV/V
- 15-year load cell warranty
- 10,000 division load cell
- 39 kN stainless steel mount destructive lateral force; 20 kN permissible lift-off protection
- Foot 20 kN lateral force and lift-off protection

### LOAD CELL CERTIFICATIONS

FM APPROVED

Ex

## Stainless Steel Models

| Total Capacity | | Load Cell Capacity | | RLWS Part# | Minebea Part # | Price |
|---|---|---|---|---|---|---|
| **3-Module Kit** | | | | | | |
| 3,300 lb | 1,500 kg | 1,100 lb | 500 kg | **158727** | Inteco-1532-U | $8,557.75 |
| 6,600 lb | 3,000 kg | 2,200 lb | 1,000 kg | **158788** | Inteco-3032-U | $8,557.75 |
| 13,200 lb | 6,000 kg | 4,400 lb | 2,000 kg | **158731** | Inteco-6032-U | $8,557.75 |
| 19,800 lb | 9,000 kg | 6,600 lb | 3,000 kg | **158733** | Inteco-9032-U | $8,557.75 |
| 33,000 lb | 15,000 kg | 11,025 lb | 5,000 kg | **158735** | Inteco-15032-U | $8,770.75 |
| 66,000 lb | 30,000 kg | 22,050 lb | 10,000 kg | **158737** | Inteco-30032-U | $9,346.75 |
| 132,000 lb | 60,000 kg | 44,100 lb | 20,000 kg | **158739** | Inteco-60032-U | $9,610.75 |
| 198,000 lb | 90,000 kg | 66,140 lb | 30,000 kg | **158741** | Inteco-90032-U | $9,949.75 |
| 330,500 lb | 150,000 kg | 110,200 lb | 50,000 kg | **158743** | Inteco-150032-U | $10,765.75 |
| **4-Module Kit** | | | | | | |
| 4,400 lb | 2,000 kg | 1,100 lb | 500 kg | **158729** | Inteco-2042-U | $10,571.75 |
| 8,800 lb | 4,000 kg | 2,200 lb | 1,000 kg | **158730** | Inteco-4042-U | $10,571.75 |
| 17,600 lb | 8,000 kg | 4,400 lb | 2,000 kg | **158732** | Inteco-8042-U | $10,571.75 |
| 26,400 lb | 12,000 kg | 6,600 lb | 3,000 kg | **158734** | Inteco-12042-U | $10,571.75 |
| 44,000 lb | 20,000 kg | 11,025 lb | 5,000 kg | **158736** | Inteco-20042-U | $10,855.75 |
| 88,000 lb | 40,000 kg | 22,050 lb | 10,000 kg | **158738** | Inteco-40042-U | $11,623.75 |
| 176,000 lb | 80,000 kg | 44,100 lb | 20,000 kg | **158740** | Inteco-80042-U | $11,975.75 |
| 264,500 lb | 120,000 kg | 66,140 lb | 30,000 kg | **158742** | Inteco-120042-U | $12,427.75 |
| 440,500 lb | 200,000 kg | 110,200 lb | 50,000 kg | **158744** | Inteco-200042-U | $13,515.75 |

*Complete Kit Includes:*
*Inteco load cell, PR6001/10 (11) mount, junction box, load cell extension cable;*
*Four-mount kit includes PR6001/00 or (01) N foot*



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# PR6202

Hygienic Weigh Module Kits







*The PR6202 range of load cells is specially designed to meet the high demands of the food, pharmaceutical and chemical industries. These products are made completely from stainless steel and are specially designed for use with process vessels. All horizontal surfaces are inclined for easy draining, and gaps and undercuts have purposely been avoided. The materials and surface quality were also selected to ensure the load cell meets tried and tested international standards and specifications. Its unique design principle enables it to compensate for motions caused by mechanical/thermal contractions or expansions of containers and/or padding construction in combination with its mounting kit, which has been specially designed for this area of application. The PR6202 is designed for consistent, high accuracy.*

## Standard Features

- Proven rocker pin principle for accurate repeatability
- Easy corner adjustment by matched load cell output
- All stainless steel construction (316 stainless steel load cells)
- Wide operating temperature range
- High overload capacity
- Resists vibration for consistent high accuracy
- Hermetically sealed, IP68/69K (depth of 1.5 m for 10,000 hours)
- EX-version available (PR 6202/..E)
- 10,000 division load cell, 2 mV/V
- 15-year warranty
- 50 kN destructive lateral force, and 25 kN permissible lift-off protection
- Foot 35 kN lateral force and lift-off protection

## LOAD CELL CERTIFICATIONS

FM APPROVED

Ex

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## Zinc-Plated Steel Options

| Total Capacity | | Load Cell Capacity | | RLWS Part# | Minebea Part # | Price |
|---|---|---|---|---|---|---|
| **3-Module Kit** | | | | | | |
| 6,600 lb | 3,000 kg | 2,200 lb | 1,000 kg | **158761** | PR6202-3032-U | $11,398.75 |
| 13,200 lb | 6,000 kg | 4,400 lb | 2,000 kg | **158764** | PR6202-6032-U | $11,398.75 |
| 26,000 lb | 12,000 kg | 8,820 lb | 4,000 kg | **158767** | PR6202-12032-U | $11,707.75 |
| 39,500 lb | 18,000 kg | 13,230 lb | 6,000 kg | **158770** | PR6202-18032-U | $11,707.75 |
| 66,000 lb | 30,000 kg | 22,050 lb | 10,000 kg | **158772** | PR6202-30032-U | $11,707.75 |
| 165,000 lb | 75,000 kg | 55,120 lb | 25,000 kg | **158929** | PR6202-75032-U | $12,016.75 |
| 330,500 lb | 150,000 kg | 110,230 lb | 50,000 kg | **158775** | PR6202-150032-U | $13,669.75 |
| **4-Module Kit** | | | | | | |
| 8,800 lb | 4,000 kg | 2,200 lb | 1,000 kg | **158762** | PR6202-4042-U | $14,168.75 |
| 17,600 lb | 8,000 kg | 4,400 lb | 2,000 kg | **158765** | PR6202-8042-U | $14,168.75 |
| 35,000 lb | 16,000 kg | 8,820 lb | 4,000 kg | **158769** | PR6202-16042-U | $14,580.75 |
| 52,900 lb | 24,000 kg | 13,230 lb | 6,000 kg | **158771** | PR6202-24042-U | $14,580.75 |
| 88,000 lb | 40,000 kg | 22,050 lb | 10,000 kg | **158773** | PR6202-40042-U | $14,580.75 |
| 220.000 lb | 100,000 kg | 55,120 lb | 25,000 kg | **158774** | PR6202-100042-U | $14,992.75 |
| 440,500 lb | 200,000 kg | 110,230 lb | 50,000 kg | **158776** | PR6202-200042-U | $17,196.75 |

*Complete Kit Includes:*
*PR6202 load cell, PR6002/10S (11S) mount, junction box, load cell extension cable;*
*Four-mount kit includes PR6002/04S or (05S) foot*





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# Contego-Hygienic Weigh Module Kits

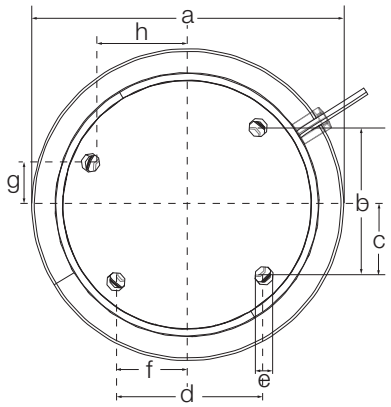
## Lateral Cable Outlet

*The protective cover made of FDA-compliant silicone ensures a reliable encapsulation of the module and prevents the intrusion of dirt and microorganisms. The connecting geometry between protective cover and mounting plates guarantees a safe fitting and, together with the already excellent resistance to aging of the silicone, ensures reliable protection over years.*

*The Contego® weighing module therefore represents an absolutely hygienic unity of load cell and installation kit. As a result, you can refrain from using other expensive and complicated constructions to protect the weighing technology against dirt.*

*Besides the hygienic aspect, the Contego weighing module provides all the other important mechatronic functions for a fast operational startup and reliable results. The integrated constraint holds the process vessel in the proper position and, at the same time, allows movement through thermal expansion of the vessel. The integrated lift-off protector is a reliable safety feature to protect the vessel from tilting. At the same time, this feature can be used as a lifting system as well. This way, the vessel leg can be raised a few millimeters without using supplemental tools.*

*A PR6241 S-type load cell is used with this module. This series is distinguished by its unmatched reliability, robustness and stability, enabling years of undisturbed usage without any readjustment, in addition to the high measuring accuracy and reproducibility.*







*Junction Box not shown*

## Standard Features

- Compact and absolute hygienic weighing solution for a load range up to 2 t
- Quick and seamless installation
- Easy cleaning without residue
- High chemical resistance
- Protective cover made of FDA-compliant silicone
- Integrated S-like lift-off protector and jack-up function with constrainer for horizontal forces
- Proven rocker pin principle for accurate repeatability
- 10,000 divisions
- Load cell, 2 mV/V
- 15-year load cell warranty
- 30 kN destructive lateral force and 8 kN permissible lift-off protection

**LOAD CELL CERTIFICATIONS**

FM APPROVED

## Options/Accessories

| Part # | Type | Minebea Part # | Description | Price |
|---|---|---|---|---|
| **160438** | PR6041/80S | 9405 360 41802 | Bottom plate, tank leg connection | $390.00 |

## Lateral Cable Outlet Options

| Total Capacity | | Load Cell Capacity | | RLWS Part # | Minebea Part # | Price |
|---|---|---|---|---|---|---|
| **3-Module Kit** | | | | | | |
| 660 lb | 300 kg | 220 lb | 100 kg | **158832** | CTG-332A-U | $9,046.75 |
| 1,300 lb | 600 kg | 440 lb | 200 kg | **158834** | CTG-632A-U | $9,046.75 |
| 1,900 lb | 900 kg | 660 lb | 300 kg | **158892** | CTG-932A-U | $9,046.75 |
| 3,300 lb | 1500 kg | 1,100 lb | 500 kg | **158837** | CTG-1532A-U | $9,046.75 |
| 6,600 lb | 3000 kg | 2,200 lb | 1,000 kg | **158839** | CTG-3032A-U | $9,046.75 |
| 13,200 lb | 6,000 kg | 4,400 lb | 2,000 kg | **158841** | CTG-6032A-U | $9,046.75 |
| **4-Module Kit** | | | | | | |
| 880 lb | 400 kg | 220 lb | 100 kg | **158833** | CTG-442A-U | $11,854.75 |
| 1,700 lb | 800 kg | 440 lb | 200 kg | **158835** | CTG-842A-U | $11,854.75 |
| 2,500 lb | 1200 kg | 660 lb | 300 kg | **158836** | CTG-1242A-U | $11,854.75 |
| 4,400 lb | 2000 kg | 1,100 lb | 500 kg | **158838** | CTG-2042A-U | $11,854.75 |
| 8,800 lb | 4000 kg | 2,200 lb | 1,000 kg | **158840** | CTG-4042A-U | $11,854.75 |
| 17,600 lb | 8000 kg | 4,400 lb | 2,000 kg | **158842** | CTG-8042A-U | $11,854.75 |

*Complete Kit Includes:*
*Contega load cell, junction box, load cell extension cable*

## Dimensions

| Rated Capacity | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| **in/mm** | | | | | | | | |
| Lateral cable | 8.3 in (210 mm) | 3.7 in (94 mm) | 1.9 in (47 mm) | 3.7 in (94 mm) | 0.5 in (12 mm) | 1.9 in (47 mm) | 1.1 in (29 mm) | 2.4 in (60 mm) |

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MINEBEA INTEC

# Contego-Hygienic Weigh Module Kits

Top Cable Outlet




*Junction Box not shown*

*The protective cover made of FDA-compliant silicone ensures a reliable encapsulation of the module and prevents the intrusion of dirt and microorganisms. The connecting geometry between protective cover and mounting plates guarantees a safe fitting and, together with the already excellent resistance to aging of the silicone, ensures reliable protection over years.*

*The Contego® weighing module therefore represents an absolutely hygienic unity of load cell and installation kit. As a result, you can refrain from using other expensive and complicated constructions to protect the weighing technology against dirt.*

*Besides the hygienic aspect, the Contego weighing module provides all the other important mechatronic functions for a fast operational startup and reliable results. The integrated constraint holds the process vessel in the proper position and, at the same time, allows movement through thermal expansion of the vessel. The integrated lift-off protector is a reliable safety feature to protect the vessel from tilting. At the same time, this feature can be used as a lifting system as well. This way, the vessel leg can be raised a few millimeters without using supplemental tools.*

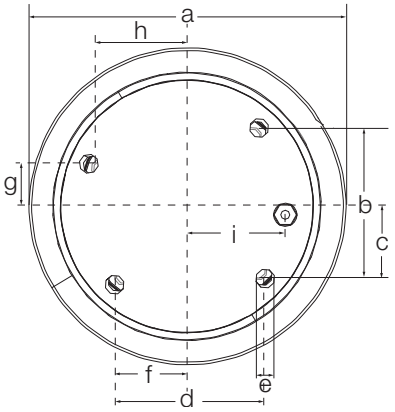
*A PR6241 S-type load cell is used with this module. This series is distinguished by its unmatched reliability, robustness and stability, enabling years of undisturbed usage without any readjustment, in addition to the high measuring accuracy and reproducibility.*

## Standard Features

- Compact and absolute hygienic weighing solution for a load range up to 2 t
- Quick and seamless installation
- Easy cleaning without residue High chemical resistance
- Protective cover made of FDA-compliant silicone
- Integrated S-like lift-off protector and jack-up function with constrainer for horizontal forces
- Proven rocker pin principle for accurate repeatability
- 10,000 divisions
- Load cell, 2 mV/V
- 15-year load cell warranty
- 30 kN destructive lateral force and 8 kN permissible lift-off protection

**LOAD CELL CERTIFICATIONS**

FM APPROVED




## Options/Accessories

| Part # | Type | Minebea Part # | Description | Price |
|---|---|---|---|---|
| **160438** | PR6041/805 | 9405 36041802 | Bottom plate, tank leg connection | $390.00 |

## Top Cable Outlet Options

| Total Capacity | | Load Cell Capacity | | RLWS Part # | Minebea Part # | Price |
|---|---|---|---|---|---|---|
| **3-Module Kit** | | | | | | |
| 660 lb | 300 kg | 220 lb | 100 kg | **158843** | CTG-332B-U | $9,046.75 |
| 1,300 lb | 600 kg | 440 lb | 200 kg | **158845** | CTG-632B-U | $9,046.75 |
| 1,900 lb | 900 kg | 660 lb | 300 kg | **158847** | CTG-932B-U | $9,046.75 |
| 3,300 lb | 1,500 kg | 1,100 lb | 500 kg | **158849** | CTG-1532B-U | $9,046.75 |
| 6,600 lb | 3,000 kg | 2,200 lb | 1,000 kg | **158851** | CTG-3032B-U | $9,046.75 |
| 13,200 lb | 6,000 kg | 4,400 lb | 2,000 kg | **158853** | CTG-6032B-U | $9,046.75 |
| **4-Module Kit** | | | | | | |
| 880 lb | 400 kg | 220 lb | 100 kg | **158844** | CTG-442B-U | $11,854.75 |
| 1,700 lb | 800 kg | 440 lb | 200 kg | **158846** | CTG-842B-U | $11,854.75 |
| 2,500 lb | 1,200 kg | 660 lb | 300 kg | **158848** | CTG-1242B-U | $11,854.75 |
| 4,400 lb | 2,000 kg | 1,100 lb | 500 kg | **158850** | CTG-2042B-U | $11,854.75 |
| 8,800 lb | 4,000 kg | 2,200 lb | 1,000 kg | **158852** | CTG-4042B-U | $11,854.75 |
| 17,600 lb | 8,000 kg | 4,400 lb | 2,000 kg | **158854** | CTG-8042B-U | $11,854.75 |

*Complete Kit Includes:*
*Contega load cell, junction box, load cell extension cable*

## Dimensions

| Rated Capacity | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| **in/mm** | | | | | | | | | |
| Top cable | 8.3 in (210 mm) | 3.7 in (94 mm) | 1.9 in (47 mm) | 3.7 in (94 mm) | 0.5 in (12 mm) | 1.9 in (47 mm) | 1.1 in (29 mm) | 2.4 in (60 mm) | 2.2 in (55 mm) |



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# PR5220 Ethernet Transmitter

## Specifications

**Housing:**
Housing IP20 according to DIN 40050
Mounting on DIN Rail 35 mm according to DIN 46277
Material: polyamide RoHS conform

**Dimensions:**
Version 00 (W x D x H): 3.9 x 4.6 x 1.77 in (99 x 116 x 45 mm)
Versions 01, 04, 06, 07 (W x D x H): 3.9 x 4.6 x 2.68 in (99 x 116 x 68 mm)

**Supply Voltage:**
24 VDC, ±20%

**Power Consumption:**
6 W / 8 W (Versions /01, /04, /06, /07)

**Control Outputs:**
Quantity: 3 opto-isolated output, passive,
Voltage: max. 30 VDC:
Current: max. 30 mA
Functions: Limits, weight status

**Control Inputs:**
Quantity: 3, opto-isolated input, passive,
Functions: zero setting, taring
Voltage: max. 30 VDC
Current: max. 10 mA

**In-Output:**
All I/O circuits fully galvanically isolated from sensor input and supply

**Load Cell Connection:**
All strain gauge load cells; 6- or 4-wire connection

**Load Cell Supply:**
12 V, short-circuit proof. External load cell supply possible

**Minimum Load Impedance:**
Min. 75 Ω e.g. 6 load cells with 600 Ω or 4 load cells with 350 Ω

**Measuring Principle:**
Measuring amplifier: Delta-Sigma converter
Measuring time: min 5 ms - max. 1600 ms

**Input Range:**
7.5 mV (appr. 4.8 Mio. div.)
Usable resolution: 0.2 µV/d

**Input Signal:**
Measuring signal: 0 to 36 mV (for 100 % nominal load)

**W & M Approval (in preparation):**
10,000 e class III acc. to EN 45501; according to. OIML R76, min. verification interval: 0.5 µV/e

**Linearity:**
< 0.002 %

**Temperature Effects:**
Zero: TK0 m < 0.02 µV/K RTI
Span: TKspan < +/- 2 ppm/K

**Digital Filter for Load Cell:**
4th order (low pass), Bessel, aperiodic or Butterworth

**Ethernet Interface (functions):**
Ethernet IP and Modbus/TCP
Definition of an IP address: – AutoIP; – DHCP Server classification; – manual entering of an IP address
Automatic detection of signal transmission and corresponding change over (cross-over or patch cable) Webservice via SOAP|UPnP (Simple Object Access Protocol) Synchronal Modbus UDP

**Status Indicator:**
Status LEDs to signal operation and error conditions.

**Analogue Output:**
0 to10 or 4-20 mA, internal resolution 16-bit, usable step-width: 0.5 µA max. load 500 O; user configurable




*The PR5220 Ethernet transmitter sets new standards in process instrumentation. The standard Ethernet TCP/IP interface enables easy transmission of information to super ordinate systems.*

## Specifications (cont.)

**Serial Interfaces:**
RS422/485 via screw terminals
Protocol: Remote display, SMA and Minebea digital scales (XBPI–protocol)

**Electrical Connections:**
All electrical connections via modular screw terminals for 2.5 mm2 max. System Phoenix/COMBICO

**Temperature:**
WandM: –10° C to 40° C
Operation: –10° C to 50° C
Storage: –40° C to 70° C

**Weight:**
Version 00:
Net: 0.29 kg
Versions 01, 04, 06, 07
Net: 0.35 kg

## Standard Features

- Configuring via VNC
- OPC server
- Full digital signal processing with up to 4.8 Mio divisions internal resolution
- SmartCalibration feature for fast calibration even without weights
- Requires supply voltage of 24 VDC
- IP20 housing, DIN Rail Mount
- Verifiable with remote display up to 10,000 e, CL III (EN 45501, OIML R76)
- Precision analog output
- Serial RS-485/422 interface
- CD supplied with software suite
- 10,000 divisions at six samples per second

## Part Number/Price

| Part # | Type | Minebea Part # | Description | Price |
|---|---|---|---|---|
| **158856** | PR5220/00 | 940515220003 | PR5220 Ethernet Transmitter TCP/IP, 4-20 mA | $1,654.00 |
| **158857** | PR5220/01 | 940515220013 | PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with Profibus DP | $1,991.00 |
| **158858** | PR5220/04 | 940515220043 | PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with DeviceNet | $1,991.00 |
| **158859** | PR5220/06 | 940515220063 | PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with ProfiNet | $1,991.00 |
| **158891** | PR5220/07 | 940515220073 | PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with EtherNet IP | $1,991.00 |

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MINEBEA INTEC

# PR5230 Fieldbus Transmitter




*The fieldbus transmitter PR5230 is a product for readout and transmit weight values to installed networks and control systems. LCD display is configurable and displays up to 10 items, and can be installed at the process. Through the different interface upgrade possibilities and the robust stainless steel housing, the PR5230 is an innovative and flexible process unit.*

## Specifications (cont.)

**Digital Filter for Load Cell:**
4th order (low pass), Bessel, aperiodic or Butterworth

**Ethernet Interface for Optional IP Card:**
Ethernet TCP/IP and Modbus® TCP
Definition of an IP address: – AutoIP; – DHCP Server classification; – manual entering of an IP address
Automatic detection of signal transmission and corresponding change over (cross-over or patch cable)
Webservice via SOAPIUPnP (Simple Object Access Protocol) Synchronal Modbus UDP

**Serial Interfaces:/strong>**
RS 422/485 and RS232
Protocols: Remote Display, SMA, Modbus RTU, printer and Minebea digital scales (XBPI – protocol)

**Options Analogue Output PR 5230/06 (C11):**
Ø-1Ø VDC or 4 -2Ø mA, internal resolution 16 bit, usable stepwidth: 0.5 µA max. load 500 O, user configurable

**Fieldbus PR 1721/4x (C2x):**
Profibus®-DP, Interbus-S, DeviceNet®, CC-Link, Profinet® and EtherNet/IP®

**Load Cell Connection Board PR 5230/22 (C31):**
For the internal connection of up to 4 Load cells (instead using a cable junction box)

**Environmental Conditions Temperature:**
WandM: –10° C to 40° C
Operation: –10° C to 50° C
Storage: –20° C to 70° C

**ATEX Approvals PR 5230:**
II 3G Ex nA nC IIC T4
II 3D Ex tD A22 IP6X T80° C
SAG 09ATEX004X
II (2)G [Ex ib] IIC
II (2)D [Ex ibD]
KEMA 10 ATEX 0065 X

## APPROVALS

## Standard Features

- IP66, stainless steel, electro-polished construction
- Display for weight and status information
- OIML approval for 10,000e, and an internal resolution of 4 and 8 Mio. counts
- SmartCalibration feature for fast calibration even without weights
- Serial Interface RS-485/422 and RS-232
- Option cards: Analog output 0 to 10 or 4-20 mA, DeviceNet and Ethernet/IP
- Load cell connection board for up to four load cells

## Part Number/Price

| Part # | Type | Minebea Part # | Description | Price |
|---|---|---|---|---|
| **158861** | PR5230/00 | 9405 152 30000 | PR5230 transmitter in field housing | $2,333.00 |

## Options/Accessories

| Part # | Type | Minebea Part # | Description | Price |
|---|---|---|---|---|
| **158863** | PR1721/57 | 9405 317 21571 | EtherNet IP interface module | $788.00 |
| **158864** | PR1721/44 | 9405 317 21441 | DeviceNet interface module | $940.00 |
| **160431** | PR5230/06 | 9405 352 30061 | 0-10 or 4-20 mA interface module | $313.00 |

## Specifications

**Housing:**
Housing IP66 material: stainless steel electro-polished
RoHS conform

**Dimensions:**
(W x D x H): 13.78 x 9.84 x 5.91 in
(350 x 250 x 150 mm)

**Weight:**
Net: 1.45 kg (3.2 lb)

**Display and Status:**
LCD, transflective, back-lit
Weight: 6-digits
Size: 128 + 64 pixel, graphic
Information can be configured
Status LEDs to signal operation and error conditions.

**Internal Keys:**
In the housing: 3 keys for Zero, Tare, Test

**Supply Voltage:**
230 VAC, (+10/-15 %): 24 VDC, (±20 %)

**Power Consumption:**
11 W

**Control Outputs:**
Quantity: 3
Relay output, passive,
Functions: Limits, weight status
Voltage: max. 30 VDC:
Current: max. 30 mA

**Control Inputs:**
Quantity: 3 opto-isolated input, passive,
Functions: zero setting, taring
Voltage: max. 30 VDC
Current: max. 10 mA

**Remote I/O:**
The I/O can be set internally via a function and remote via fieldbus or PC

**In/Output:**
All I/O circuits fully galvanically isolated from sensor input and supply 3 inputs/3 outputs (relays)

**Load Cell Connection:**
All strain gauge load cells; 6- or 4-wire connection

**Load Cell Supply:**
12 V, short-circuit proof. External load cell supply possible.

**Minimum Load Impedance:**
Min. 75 Ω (e.g. 6 load cells with 600 O or 4 load cells with 350 ohm)

**Measuring Principle:**
Measuring amplifier: Delta-Sigma converter
Measuring time: min 5 ms – max. 1600 ms

**Accuracy:**
7.5 nV (appr. 4.8 Mio. div.) Usable resolution: 0.2 µV/d

**LC Input Signal:**
Measuring signal: 0 bis 36 mV (for 100 % nominal load)

**WandM Approval (in preparation):**
10,000 e class III acc. to EN 45501; according to. OIML R76, min. verification interval: 0.5 µV/e at 160 ms

**Linearity:**
< 0.003 %

**Temperature Effects:**
Zero: TK0 m < 0.05 µV/K RTI
Span: TKspan < ±2.5 ppm/K



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# Rice Lake SURVIVOR® SST3®

Washdown Label Printer




## Standard Features

- IP69K rating
- Washdown 304 stainless steel enclosure
- Electronics protected from splashes
- Direct thermal
- 203 dpi printhead
- Label length detection
- Real-time clock
- USB, serial or parallel communications
- Line mode

## Options

- Wireless or wired ethernet
- Heater
- Thermal transfer
- Cutter
- Present sensor

## APPROVALS

UL LISTED

CE

## Specifications

**Print Speed:**
2 in to 10 in per second
(51 mm to 152 mm)

**Supply Roll Capacity:**
8 in (203 mm) O D on 1.5 in to 3.0 in
(38 mm to 76.2 mm) cores.

**Bar Code Modulus:**
5 mil to 55 mil "X" dimension in picket fence or ladder orientations

**Media Width:**
0.75 in to 4.65 in (17 mm to 118 mm)

**Media Type:**
Roll fed, die-cut or continuous labels; perforated or continuous tag/ticket stock

**Print Length:**
0.25 in to 99 in (6 mm to 2475 mm)

**Media Thickness:**
0.0025 in to 0.0100 in (0.0635 mm to 0.254 mm)

**Ribbons (Optional):**
Industry standard ribbon widths:
1 in (25 mm) ribbon core, 1,476 ft (450 m) in length

**Bar Codes:**
Code 3 of 9, UPC-A, UPC-E, Interleaved 2 of 5, code 128, EAN-8, EAN-13, HIBC, Codabar, Plessey, UPC 2 and 5-digit addendums, Code 93, Postnet, UCC/Ean Code 128, Telepen, UPS MaxiCode, FIM, PDF417, USD-8, Datamatrix, QR Code, Aztec, TLC 39, Micro PDF417, RSS

**Graphics Support:**
PCX, BMP and IMG files

**Memory:**
16 MB RAM (8 MB FLASH)
3 MB user available

**Rating/Material:**
IP69K/Stainless Steel 304

**Interfaces:**
USB, Centronics® Parallel port,
RS-232 (DB-9F) at 600 to 38,400 BPS

**Power Source:**
Auto-sensing 103.5 to 126.50 or 207 to 253 VAC at 47 to 63 Hz; US or European power cord

**Operating Temperature:**
40° F to 95° F (4° C to 35° C)

**Dimensions:**
(H x W x L):27 x 14 x 13.6 in
(686.8 x 355.6 x 345.4 mm)

**Weight:**
70 lb

**Approvals:**
UL listed, CE marked

**Processor:**
Dragon ball, 150 MHz

**Warranty:**
One-year limited warranty
One-year or 1-million linear inches on original print head. 90 days on replacement print head



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **107402** | SST3 direct thermal, peel and present, internal rewinder included | 70 lb | $4,775.00 |
| **110303** | SST3 direct thermal, peel and present, internal rewinder with heater installed | 70 lb | $5,130.00 |
| **111868** | SST3 direct thermal, peel and present, internal rewinder, 230 VAC European power cord | 70 lb | $4,775.00 |
| **111871** | SST3 direct thermal, peel and present, internal rewinder, 230 VAC European power cord, heater | 70 lb | $5,130.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **111121** | Heater kit for SST3 115 VAC (for installs after printer has been purchased) | $505.00 |
| **111872** | Heater kit for SST3, 230 VAC (for installs after printer has been purchased) | $505.00 |
| **76729** | Thermal transfer option Mark II | $100.00 |
| **76732** | Present sensor only M Class | $125.00 |
| **52412** | Network connectivity (MPS-1T,) 10 mbps micro print server | $495.00 |
| **35664** | Pre-saturated cleaning cards, 4 x 6 in, 25/box | $50.00 |
| **93181** | Film, print head cleaning 4 in wide, three/box | $18.00 |
| **76734** | Programmer's manual (PDF included on Honeywell CD-ROM) | $125.00 |
| **77562** | Operating manual (PDF included on Honeywell CD-ROM) | $25.00 |
| **109181** | Manual service SST3 | $15.00 |
| **76735** | Maintenance manual, M class | $91.00 |
| **103372** | Internal LAN (Ethernet) card | $250.00 |
| **113764** | Wireless and LAN card, attaches to back, external antenna | $940.00 |
| **103374** | USB Host, LAN and wireless card, internal antenna | $550.00 |
| **Label Stock/Ribbon (W x L)** | | |
| **21776** | Direct thermal, 3 x 3 in, 8 in diameter with perf., 2,000/roll | $40.25/roll |
| **150921** | Direct thermal, 4 x 6 in, 8 in diameter with perf., 1,000/roll | $30.50/roll |
| **25975** | Direct thermal, 4.25 x 2.5 in, 6 in diameter with perf., 1,095/roll | $25.65/roll |
| **21785** | Thermal transfer, 2 x 1 in, 8 in diameter, 5,500/roll | $12.95/roll |
| **21788** | Thermal transfer, 4 x 6 in, 8 in diameter, 1,000/roll | $17.90/roll |
| **20573** | Thermal transfer, 4 x 6.5 in, 8 in diameter, 900/roll | $19.20/roll |
| **126629** | Thermal kit, (4) 4 in labels, (2) 4 in ribbons and cleaning card | $100.95 |
| **34056** | Ribbon, black 4 in, 1,182 ft, wax | $25.25/roll |
| **Maintenance/Replacement Components** | | |
| **103369** | Print head 203 dpi, M4210 only | $495.00 |
| **104976** | Board, main flash 8 MB | $685.00 |
| **104972** | Power supply board | $450.00 |
| **108880** | Display/keypad assembly | $175.00 |
| **105382** | Power cord | $17.00 |
| **Cables** | | |
| **41276** | DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators) | $65.00 |
| **64794** | DB9 RS-232 serial data cable with DB9F to DB9M | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6ft | $30.00 |
| **Consult** | Custom 20 mA/RS-232 serial interface cable | $100.00 |

*Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.*

*Standard cable length is 5 ft. $2.00 charge for each additional foot.*



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# Rice Lake GUARDIAN™

Stainless Steel Printer Enclosure




*Guardian Plus/Guardian Max*

## Specifications

**Enclosure:**
304 stainless steel; piano-style hinge

**Dimensions:**
Part #66762: (H x W x D): 14.25 x 14.25 x 21.25 in (361.2 x 361.2 x 539.7 mm)

**Weight:**
Approximately 38 lb (17.2 kg)

**Warranty:**
One-year limited warranty

## Standard Features

- Designed to protect the various printers from harsh washdown environments
- Single lift-and-turn latch for easy access
- Adjustable anti-skid feet for easy leveling alignment and cleaning under unit
- Sliding label-access door
- Heavy-gauge 304 stainless steel construction for durability

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **66762** | Guardian stainless steel printer enclosure for Honeywell I-4206, I-4208, I-4308, I-4212 and Mark II | 38 lb | $2,900.00 |

*Consult factory for additional models and pricing*

# Rice Lake GUARDIAN G-2™

Steel Printer Enclosure



*Guardian G-2*

## Specifications

**Enclosure:**
Heavy-gauge 304 stainless steel

**Dimensions:**
Part #78672: (W x H x D): 12.75 x 8.25 x 18.5 in (323.8 x 209.5 x 469.9 mm)

**Weight:**
Approximately 30 lb (13.6 kg)

**Warranty:**
One-year limited warranty

## Standard Features

- Designed to protect various printers from harsh washdown environments
- Single lift-and-turn latch for easy access
- Adjustable anti-skid feet for easy leveling alignment and cleaning under unit
- Sliding label-access door
- Heavy-gauge 304 stainless steel construction for durability

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **78672** | Guardian, G-2 for Zebra TLP2844 | 24 lb | $1,150.00 |
| **99465** | Guardian, G-2, LP2844, GKD | 24 lb | $1,150.00 |
| **107638** | Guardian, G-2 RL-42DT, DT4 | 24 lb | $1,150.00 |
| **107639** | Guardian, G-2 RL-42TT, G500 | 24 lb | $1,150.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **46341** | Heater option | $210.00 |
| **46342** | Fan option | $110.00 |



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# Rice Lake POLY GUARD

Clear Printer Enclosure

## Specifications

**Dimensions:**
**Part #88531**: (W x T x L):13 in x 12 ¾ in x 23 ½ in
Add ½ in sides for latches and ½ in side door
**Part #88532**: 14 in x 14 ¾ in x 24 1/2 in
Add ½ in sides for latches and ½ in side door

**Weight:**
24 lbs

**Enclosure:**
¼ in Polycarbonate
Base-natural polyethylene (butcher's block)

**Warranty:**
90-day limited warranty



## Standard Features

- Designed for use in meat and food processing plants
- Cover separates from bottom
- In washdown position, stainless latches hold bottom and cover together
- Power and data cable feed through sealed notch in back of enclosure
- Side door for easy label loading

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **88531** | Enclosure, Honeywell M-Class | $1,200.00 |
| **88532** | Enclosure, Honeywell I-Class | $1,450.00 |
| **Consult** | Additional models available | Consult |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Ventilation fan | Consult |
| **Consult** | Heater assembly with power | Consult |





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# Honeywell E-Class III





## Standard Features

- Printer
- 203 dpi (8 dots/mm) print resolution
- Drop-in media loading
- USB, RS-232 or parallel
- Gap label, black mark plain or fanfold label
- Label length detection
- Direct thermal and thermal transfer models
- Rugged construction to double wall and concentric hinges
- Media viewing window
- Field-installable options
- NETira software

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Basic Model** | | | |
| **121119** | Printer, E-4204B direct thermal, tear bar 110/240 VAC printer | 6 lb | $495.00 |
| **Advanced Mode** | | | |
| **121120** | Printer, E-4205A, direct thermal, 110/240 V printer | 6 lb | $595.00 |
| **121122** | Printer, E-4205A, direct thermal, peel and present, 110/240 V printer | 6 lb | $630.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **126769** | Peel and present option for basic model | $145.00 |
| **64794** | RS-232 DB9F to DB9M nine-pin serial cable | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6ft | $30.00 |
| **41276** | 6 ft serial cable, DB9 to blunt end (Rice Lake indicators) | $65.00 |
| **68517** | External rewinder/unwinder Honeywell REW1, 110 V | $495.00 |
| **112517** | Printhead, 203 dpi E-Class II/III | $125.00 |
| **38941** | Cleaning pens for open print head printers, 12 per box | $57.00 |
| **Label Stock/Ribbon (W x L)** | | |
| **40332** | Direct thermal, 2.25 x 2 in, 5 in diameter with perf., 1,445/roll | $14.25 |
| **53251** | Direct thermal, 4.0 x 3 in, 5 in diameter with perf., 930/roll | $23.35 |
| **40331** | Direct thermal, 4.0 x 4.0 in, 5 in diameter with perf., 745/roll | $23.35 |
| **37345** | Direct thermal, 4.0 x 6.0 in, 5 in diameter with perf., 450/roll | $20.00 |
| **53261** | Thermal transfer, 4.0 x 3.0 in, 5 in diameter with perf., 930/roll | $18.05 |
| **35477** | Ribbon, 3.5 in x 360 ft, general purpose | $8.25 |
| **35478** | Ribbon, 4.33 in x 360 ft, general purpose | $10.65 |

## Specifications

**Print Speed:**
Basic: 4 inches per second
Advanced: 5 Inches per second (IPS) (127 mm/s)

**Print Length Range:**
0.375 to 99 in (9.5 to 2,514 mm)

**Print Width:**
4.25 in maximum

**Media Types:**
Label Roll OD: Max 5.0 in
Core: 1 in
Fan-fold, die-cut or continuous labels, perforated or continuous tag/ticket stock
Width: 0.75 to 4.4 in
Thickness: 0.0025 to 0.01 in
Sensing: Basic-fixed position
Advanced: Positional adjustable sensors capable of gap between labels, black bar on back, and notch or hole sensing

**Printer language:**
DPL, PL-Z or PL-E emulation

**Ribbon:**
Coated side in or coated side out (CSI/CSO)
Width range 1.0-4.3 in (25 to 109 mm)
Core: 0.5-1.0 in (13 to 25 mm)

**Resident Fonts:**
10 alphanumeric fonts from 0.08 to 0.25 in including OCR-A, OCR-B, CG
Triumvirate smooth font from AGFA

**Bar Codes:**
Linear (Code 3 of 9, Code 93, Code 128), UCC/EAN-128, UPC E, EAN 8/13,
Interleaved 2 or 5, Codabar, Post Net, HIBC, UPC 2 and 5 Addendums, Plessey and Telepen

**2-D Symbologies:**
MaxiCode, PDF417, Datamatrix, QR Code, USD-8, Aztec, TLC 39, Micro PDF417

**Dimensions:**
(W x L x H): 8.01 x 7.36 x 11.1 in
(203.5 x 187 x 282 mm)

**Memory:**
64MB Flash/16 MB DRAM

**Interfaces:**
Baud rate: up to 38,400 BPS
Standard: USB and RS-232 (DB-9F)
Advanced model mini-parallel centronics also

**Power:**
Auto switching 100/240 VAC, 50/60 Hz,
U.S. Power Cord

**Environment:**
Operation: 40° F to 95° F (4° C to 35° C)

**Operating Temperature:**
40° F to 95° F (4° C to 35° C)

**Weight:**
5.2 lb (2.4 kg)

**Warranty:**
One-year limited warranty



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# Honeywell M-4206 Mark II/M-4210 Mark II




RFID OPTION

## Standard Features

- 203 dpi (8 dots/mm) print resolution (M4308, 300 dpi)
- Lightweight die-cast aluminum frame
- Supplies loading diagram embossed into the frame
- Collapsible ribbon hub for loading and unloading of ribbons
- Media window
- Scaleable font engine
- USB, serial and parallel communications
- Reverse fields/mirror image (fonts/graphics can be printed as a normal or reverse image)
- Real-time clock (M-4210)
- Support CD-ROM (contains DMX EM conf. tool, Windows® print drivers an manuals)
- Line mode
- LCD Graphical Display

APPROVALS

UL LISTED

CE

CSA

## Options

- R-series RFID HF and UHF M210 Mark II
- Cutter
- Present sensor
- Internal rewind
- Thermal transfer
- Peel/present
- Wired/wirelesss Ethernet

## Specifications

**Print Speed:**
M-4206 Mark II: 2 in to 6 in per second (51 mm to 152 mm)
M-4210 Mark II: 2 in to 10 in per second (51 mm to 152 mm)
M4308: 2 in to 8 in per second (51 mm to 203 mm)

**Supply Roll Capacity:**
8 in (203 mm) O D on 1.5 in to 3.0 in (38 mm to 76.2 mm) cores
Fanfold stock accepted from rear and bottom of printer

**Bar Code Modulus:**
5 mil to 55 mil "X" dimension in picket fence or ladder orientations

**Media Width:**
0.75 in to 4.65 in (17 mm to 118 mm)

**Media Type:**
Roll fed or fan-fold materials, die-cut or continuous labels; perforated or continuous tag/ticket stock

**Print Length:**
0.25 in to 99 in (6 mm to 2,475 mm)

**Media Thickness:**
0.0025 in to .01 in (.0635 mm to .254 mm)

**Ribbons:**
Industry standard ribbon widths; 1 in (25 mm) ribbon core, 1,476 ft (450 m) in length

**Bar Codes:**
Code 3 of 9, UPC-A, UPC-E, Interleaved 2 of 5, Code 128, EAN-8, EAN-13, HIBC, Codabar, Plessey, UPC 2 and 5 digit addendums, Code 93, Postnet, UCC/EAN Code 128, Telepen, UPS MaxiCode, FIM, PDF417, USD-8, Datamatrix, QR Code, Aztec, TLC 39, Micro PDF417, RSS

**Graphics Supported:**
.PCX, .BMP and .IMG files

**Memory:**
M4206: 8 MB RAM (8 MB FLASH), 1 MB user available
M4210: 16 MB RAM (8 MB FLASH), 3 MB user available

**Construction:**
Metal

**Interfaces:**
USB, Centronics® parallel port, RS-232 (DB-9F) at 600 to 38,400 BPS

**Processor:**
M-4206 Mark II Dragonball, 100 MHz
M-4210 Mark II Dragonball, 150 MHz

**Power Source:**
Auto-sensing 90 to 132 or 180 to 264 VAC at 47 to 63 Hz; specify appropriate power supply and cord when ordering

**Operating Temperature:**
40° F to 95° F (4° C to 35° C

**Dimensions:**
(H x W x D): 10.21 x 10.10 x 18.19 in (259 x 257 x 462 mm)

**Weight:**
27 lb

**Approvals:**
UL listed, CSA certified, CE marked, TUV-GS safety standards, FCC Class A emissions, RoHS and WEE compliant

**Warranty:**
One-year limited warranty.
One-year or 1 million linear inches on original print head. 90 days on replacement print head



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **M-4206 Mark II** | | | |
| **103364** | Label printer, M-4206 Mark II direct thermal, 115/230 VAC | 27 lb | $1,145.00 |
| **103365** | Label printer, M-4206 Mark II direct thermal, 115/230 VAC, Ethernet | 27 lb | $1,395.00 |
| **M-4210 Mark II** | | | |
| **103367** | Label printer, M-4210 Mark II direct thermal, 115/230 VAC | 27 lb | $1,395.00 |
| **103366** | Label printer, M-4210 Mark II direct thermal 115/230 VAC, Ethernet | 27 lb | $1,645.00 |
| **108891** | Label printer, M-4210 Mark II direct thermal, peel and present, internal rewind | 30 lb | $1,800.00 |
| **Consult** | Label printer, M-4308 models by request | | Consult |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **76729** | Thermal transfer option (coated side in) | $100.00 |
| **76730** | Peel mechanism and present sensor (requires internal rewinder) | $205.00 |
| **76731** | Internal rewinder | $200.00 |
| **76732** | Present sensor only | $125.00 |
| **76733** | Standard cutter kit for 10 mil stock | $495.00 |
| **35664** | Pre-saturated cleaning cards, 4 x 6 in 25/box | $50.00 |
| **93181** | Film, print head cleaning 4 in wide, 3/box | $18.00 |
| **76734** | Programmer's manual (PDF included on Honeywell CD-ROM) | $125.00 |
| **77562** | Operating manual (PDF included on Honeywell CD-ROM) | $25.00 |
| **103372** | Internal LAN (Ethernet) card | $250.00 |
| **103373** | Wireless and LAN card | $475.00 |
| **103374** | USB host, LAN and wireless card M-4210 only | $550.00 |
| **Label Stock/Ribbon (W x L)** | | |
| **21776** | Direct thermal, 3 x 3 in, 8 in diameter with perf., 2,000/roll | $40.25/roll |
| **150921** | Direct thermal, 4 x 6 in, 6 in diameter with perf., 1,000/roll | $30.50/roll |
| **25975** | Direct thermal, 4.25 x 2.5 in, 6 in diameter, with perf. 1,095/roll | $25.65/roll |
| **21785** | Thermal transfer, 2 x 1 in, 8 in diameter, 5,500/roll | $12.95/roll |
| **21788** | Thermal transfer, 4 x 6 in, 8 in diameter, 1,000/roll | $17.90/roll |
| **20573** | Thermal transfer, 4 x 6.5 in, 8 in diameter, 900/roll | $19.20/roll |
| **34056** | Ribbon, black, 4 in, 1,181 ft, wax | $25.25/roll |
| **126629** | Thermal kit, (4) 4 x 4 in labels, (2) 4 in ribbons and 1 cleaning card | $100.95 |
| **Print Head** | | |
| **103369** | Print head 203 dpi M-class, M4210 only | $495.00 |
| **103368** | Print head 203 dpi M-4206 | $495.00 |
| **Cables** | | |
| **41276** | DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators) | $65.00 |
| **64794** | DB9 RS-232 serial data cable with DB9F to DB9M | $65.00 |
| **37527** | 6 ft parallel cable | $35.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6ft | $30.00 |





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# Honeywell I-4212e Mark II

Direct Thermal Printer



## Standard Features

- 203 dpi (8 dots/mm) print resolution
- Easy-to-read liquid crystal display (LCD)
- 3 in and 1.5 in (76.2 mm and 38.1 mm) revolving media hub
- 32 MB/64 MB memory
- Media window
- Honeywell CD-ROM (contains Windows® print drivers and manuals)
- NETira software

## Options

- R-series RFID HF and UHF M210 Mark II
- Cutter
- Present sensor
- Internal rewind
- Thermal transfer
- Peel/present
- Wired/wirelesss Ethernet

## APPROVALS

## Specifications

**Print Speed:**
12 in per second (305 mm)

**Resolution:**
203 DPI (8 dots/mm)

**Maximum Print Width:**
4.094 in (104 mm)

**Media Width:**
1 in to 4.65 in (25 to 118 mm)

**Print Length:**
0.25 in to 99 in (6 mm to 2,475 mm) .75 in (19 mm) minimum print length with optional present sensor

**Supply Roll:**
8 in (203 mm) maximum diameter on 1.5 in to 3 in (38 mm to 76 mm) core.
Fan-fold stock accepted from rear of printer

**Revolving Media Hubs:**
Standard in 1.5 in and 3 in; optional 40 mm

**Ribbons:**
Industry standard ribbon widths; 1 in (25 mm) ribbon core, 1,968 ft (600 m) in length
Auto-sensing option

**Bar Codes:**
Code 39, Interleaved 2 of 5, Code 128 (subsets A,B and C), Codabar, LOGMARS, UPC-A, UPC-E, UPC 2 and 5 digit addendums, EAN-8, EAN-13, EAN 2 and 5 digit addendums, UPC random weight, Code 93, MSI Plessey, Universal Shipping Container Symbology, UCC/EAN Code 128, QR Code, Postnet, Code 128 MOD 43, PDF 417, Micro PDF, UPS MaxiCode (mode 2 and 3), Datamatrix, Telepen, Aztec Code

**Graphics Support:**
.PCX, .BMP and .IMG files

**Dimensions:**
(H x W x D): 12.7 x 12.62 x 18.6 in
(322.6 x 320.5 x 472.4 mm)

**Weght:**
50 lbs

**Interfaces:**
Centronics® parallel port (IEEE 1284 compliant), RS-232 (DB-9F) at 300 to 38,400 BPS, USB, optional Ethernet

**Power Source:**
Auto-sensing 90-264 VAC at 47-63 Hz; specify appropriate power cord when ordering

**Approvals:**
UL listed, CSA certified, CE marked, RoHS and WEE compliant

**Warranty:**
One-year limited warranty on parts.
One-year or 1 million linear inches on original print head
90 days on replacement print head



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **131143** | Label printer, I-4212e direct thermal, 115 VAC | 50 lb | $1,595.00 |
| **131145** | Label printer, I-4212e direct thermal, 115 VAC, with internal rewind | 50 lb | $1,795.00 |
| **131146** | Label printer, I-4212e direct thermal, 115 VAC Peel and Present, internal rewind | 50 lb | $1,945.00 |
| **131144** | Label printer, I-4212e direct thermal, 230 VAC, Euro and British cord | 50 lb | $1,595.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **131147** | Thermal transfer option bidirectional | $100.00 |
| **131148** | Peel mechanism and present sensor (requires internal rewinder) | $205.00 |
| **131149** | Internal rewinder | $200.00 |
| **131150** | Internal Ethernet, interface kit (field installable) | $325.00 |
| **131151** | Wireless-LAN 802.11 a/b/g with WPA 2 security protocol | $500.00 |
| **53918** | Standard cutter kit for 10 mil stock | $695.00 |
| **131152** | GP10 applicator interface card | $225.00 |
| **35664** | Pre-saturated cleaning cards, 4 x 6 in, 25/box | $50.00 |
| **93181** | Film, print head cleaning 4 in wide, 3/box | $18.00 |
| **38941** | Cleaning pens, 12 per box | $57.00 |
| **64898** | Additional programmer's manual | $125.00 |
| **64896** | Additional maintenance manual | $129.00 |
| **75098** | Additional operating manual | $60.00 |
| **53918** | Cutter kit | $695.00 |
| **Label Stock/Ribbon (W x L)** | | |
| **21776** | Direct thermal, 3 x 3 in, 8 in diameter with perf., 2,000/roll | $40.25/roll |
| **150921** | Direct thermal, 4 x 6 in, 8 in diameter with perf., 1,000/roll | $30.50/roll |
| **25975** | Direct thermal, 4.25 x 2.5 in, 6 in diameter with perf., 1,095/roll | $25.65/roll |
| **21785** | Thermal transfer, 2 x 1 in, 8 in diameter, 5,500/roll | $12.95/roll |
| **21788** | Thermal transfer, 4 x 6 in, 8 in diameter, 1,000/roll | $17.90/roll |
| **20573** | Thermal transfer, 4 x 6.5 in, 8 in diameter, 900/roll | $19.20/roll |
| **126629** | Thermal kit, (4) 4 x 4 in labels, (2) 4 in ribbons and 1 cleaning card | $100.95 |
| **34056** | Ribbon (black), 4 in, 1,181 ft, wax | $25.25/roll |
| **Cables** | | |
| **41276** | DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators) | $65.00 |
| **64794** | DB9F to DB9M RS-232 cable | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6ft | $30.00 |
| **Print Head** | | |
| **131153** | Printhead, 203 dpi, I-4212e | $450.00 |





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# Honeywell H-4212 / H-4310

Direct Thermal/Thermal Transfer Label Printer



RFID OPTION
UHF & HF

## Standard Features

- Peel and present
- Thermal transfer
- Nine bitmapped fonts
- Scalable engine
- Revolving media hub
- 16 MB RAM (optional)
- Media window
- 8 MB flash RAM
- Options easily field-installed
- Honeywell CD-ROM (contains Windows® print drivers and manuals)
- MCL Enabled
- Optional R series RFID and RFID ready printers
- Real-time clock
- Secure digital input (SDID) card slot-SDID flash memory card

## APPROVALS

UL LISTED

CE

CSA

## Specifications

**Print Speed:**
H-4310(x): 2 in to 10 in per second
H-4212(x): 2 in to 12 in per second
(50.8 to 304.8 mm) in 0.5 in (0.01 mm) programmable increments

**Resolution:**
H-4212x-200 dpi
H-4310x-300 dpi

**Maximum Print Width/Length:**
Width: 4.10 in (H-4212x) 4.16 in (H-4310x)
Length: 0.25 in to 99 in (6 mm to 2475 mm)
0.75 in (19 mm) minimum print length with optional present sensor

**Media Width:**
1 in to 4.65 in (25 mm to 118 mm)

**Supply Roll:**
8 in (203 mm) maximum diameter on 3 in (76 mm) core. Fan-fold stock accepted from rear and bottom of printer

**Ribbons:**
Industry standard ribbon widths; 1 in (25 mm) ribbon core, 1,968 ft (600 m) in length

**MCL:**
Macro Command Language allows printer to control the printing application

**Dimensions:**
H-4212: (H x W x D): 13.0 x 12.6 x 18.9 in
H-4310: (H x W x D): 16.37 x 12.51 x 18.83 in
RFID printers (Contact Rice Lake)
CABINET: Metal construction, clear side window

**Bar Codes:**
Code 3 of 9, Interleaved 2 of 5, Code 128, Codabar, UPC-A, UPC-E, UPC 2 and 5 digit addendums, EAN-8, EAN-13, EAN 2 and 5 digit addendums, Code 93, Plessey, UCC/EAN Code 128, Postnet, PDF 417, UPS MaxiCode, Datamatrix, FIM,Telepen, HIBC, Aztec, TLC39, QR Code, PDF417, USD-8, Micro PDF41, 7, RSS, USPS-4

**Graphics Support:**
.PCX, .BMP and .IMG files

**Memory:**
8 MB Flash Memory; 16 MB DRAM memory

**Interfaces:**
Centronics® parallel port (IEEE 1284 compliant), RS232/422 (DB-9F) at 2400 to 38400 BPS
Ethernet, USB

**Power Source:**
Auto-sensing 115, 230 VAC 50/60 Hz; specify appropriate power cord when ordering

**Operating Temperature:**
32° F to 100° F (0° C to 38° C)

**Approvals:**
UL listed, CSA certified, CE marked, FCC Class A emissions standard, TUV-GS safety standards, RoHS and WEE compliant

**Weight:**
47 lb

**Warranty:**
One-year limited warranty on parts.
One-year or 1 million linear inches on original print head.
90 days on replacement print head.



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **H-4212** | | | |
| **96885** | Label printer, H-4212X, direct/thermal transfer, internal rewind 203 dpi | 47 lb | $3,330.00 |
| **H-4310** | | | |
| **96886** | Label printer, H-4310X, direct/thermal transfer, internal rewind 300 dpi | 54 lb | $3,530.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **96955** | Honeywell rfNet Internal 802.1 lb Wi-Fi card | $525.00 |
| **68517** | External rewinder/unrewinder DMX | $495.00 |
| **96956** | Standard cutter kit for 10 mil stock | $1,395.00 |
| **53913** | Expansion board 8 MB flash | $165.00 |
| **Label Stock/Ribbon (W x L)** | | |
| **21776** | Direct thermal, 3 x 3 in, 8 in diameter with perf., 2,000/roll | $40.25/roll |
| **150921** | Direct thermal, 4 x 6 in, 6 in diameter with perf., 460/roll | $30.50/roll |
| **25975** | Direct thermal, 4.25 x 2.5 in, 6 in diameter with perf., 1,095/roll | $25.65/roll |
| **21785** | Thermal transfer, 2 x 1 in, 8 in diameter, 5,500/roll | $12.95/roll |
| **21788** | Thermal transfer, 4 x 6 in, 8 in diameter, 1,000/roll | $17.90/roll |
| **20573** | Thermal transfer, 4 x 6.5 in, 8 in diameter, 900/roll | $19.20/roll |
| **126629** | Thermal kit, (4) 4 in labels, (2) 4 in ribbons and 1 cleaning card | $100.95 |
| **34056** | Ribbon (black), 4 in, 1,181 ft wax | $25.25/roll |
| **Print Head** | | |
| **96957** | Print head 203 dpi (H-4212x) | $450.00 |
| **Cables** | | |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |
| **41502** | PC to printer DB9 AT-style interface cable | $55.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | $30.00 |
| **64794** | RS-232 DB9FM/M null modem | $65.00 |

*Note: The following models are available by special order.*

*H-6210= 6 in wide, 203 dpi*

*H-6308= 6 in wide, 300 dpi*

*H-4408= 4 in wide, 400 dpi*

*H-4606= 4 in wide, 600 dpi*

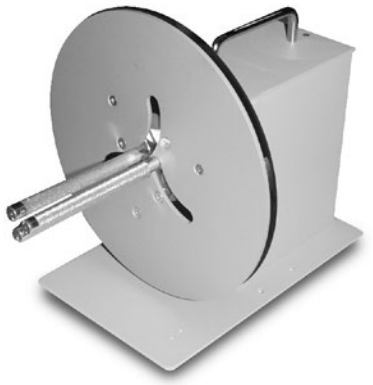




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# Honeywell DMXREW1

Label Rewinder/Unwinder



## Standard Features

- Rewinds or dispenses label rolls up to 4 in (101.6 mm) wide, up to 8 in (203 mm) diameter at 10 in (254 mm) per second
- Adjustable core holder
- Coreless rewinding
- Steel construction
- Anti-slip feet
- Constant adjustable Torque™ technology
- Bidirectional operation
- ON-OFF start/stop switch
- Inner label flange to keep edge of label web aligned as labels are rewound
- Compatible with all Datamax-O'Neil® I Series and Rice Lake SURVIVOR® SST printers

## APPROVALS

UL LISTED

CSA

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **68517** | Honeywell REW1 label rewinder/unwinder, 115 VAC | 13 lb | $495.00 |

## Specifications

**Label Width:**
Up to 4.5 in (113 mm)

**Maximum Label Roll Weight:**
8.5 lb (3.9 kg)

**Label Roll Diameter:**
Up to 8 in (200 mm)

**Core Diameter:**
Use any cardboard core from 1 in to 4 in (25 mm to 102 mm)

**Speed:**
Up to 10 ips (25+ mm/sec)
Switch adjustable rewind force
No adjustments are required

**Start/Stop:**
Convenient ON-OFF switch

**Direction:**
Bidirectional

**Power Requirements:**
115 VAC 60 Hz

**Overall Size:**
(H x W x D) 9 x 6 x 11 in
(229 x 152 x 279 mm)

**Weight:**
13 lb (5.9 kg)

**Approvals:**
UL listed, CSA certified

**Warranty:**
One-year limited warranty on parts and labor



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# EPSON® TM-T88VI

POS Printer




## Specifications

**Interface:**
Built-in USB and serial interface (DB-25F); built-in USB and Ethernet: or built-in USB and Wireless LAN

**Data Buffer:**
Receive buffer: Selectable as 45 bytes or 4 KB using the DIP switch

**Paper Dimensions:**
80 mm: 3.13 in x 3.27 in diameter or 58mm: 2.26 in x 3.27 in diameter

**Paper Thickness:**
55-80 µm

**Print Speed:**
300 mm/s {11.81 inch/s}

**Color:**
Gray

**Safety Standards:**
EMI: FCC/ICES-003 Class A
Safety standards: UL60950-1/CSA C22.2 No.60950-1

**Power:**
24 VDC ±7%

**Power Consumption:**
Approx. 1.8 A (mean)

**Temperature:**
Operating: 31° F to 113° F (5° C to 45° C)
Storage: 140F to 122° F (-10° C to 50° C)

**Reliability:**
MTBF: 360,000 hours
MCBF: 70 million lines

**Dimensions:**
(W x D x H): 5.71 x 7.68 x 5.83 in
(145 x 195 x 148 mm)

**Weight:**
3.5 lb (1.6kg)

**Warranty:**
One-year warranty

## Standard Features

- High-speed printing of both text and graphics (up to 300 mm/second)
- True grayscale image printing
- Best-in-class reliability
- Convenient drop-in paper loading, auto cutter and status LEDs
- ENERGY STAR® qualified
- Accommodates 58 mm or 80 mm paper roll
- Paper saving print features
- Improved cover protects from dust and debris
- OS support for Microsoft® Windows® 7, Vista, XP, 2000; Mac OS X v10.4, v10.5, v10.6 (Power PC/Intel Processor) and Linux

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **117233** | TM-T88V, RS-232 and USB, PS-180 Power supply | $580.00 |
| **199848** | TM-T88VI, Ethernet, WiFi, USB, PS-180 Power Supply | $725.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **23112** | Power supply, PS-180 | $110.00 |
| **69917** | One-ply thermal, (W) 3.125 in (75.44 mm, 2.97 in dia.) 7/16 core 230 ft | $5.00 |
| **83007** | Parallel Option connect-it cartridge | $62.00 |
| **15568** | 25-Pin D-sub male to 25-Pin D-sub male RS-232 serial interface cable | $65.00 |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface (Rice Lake indicators) | $65.00 |
| **Consult** | Custom RS-232 serial cable | Consult |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | $30.00 |
| **167545** | TM88IV and V printhead | $125.00 |





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# EPSON® TM-U220

Tape Printer



## Standard Features

- Nine-pin dot matrix print head
- High-speed 4.7 to 6.0 lines per second printing
- Drop-in paper set and auto paper loading
- Automatically transmits changes in printer status
- RS-232 (DB-25F connector)
- Optional connect-it cartridges for parallel, USB, 10 Base-T
- Uses MI88D mechanism

## APPROVALS

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **81076** | TM-U220D, RS-232, 115/230 VAC, gray | 10 lb | $420.00 |
| **81077** | TM-U220A, internal rewind and cutter, RS-232, 115/230 VAC, gray | 10 lb | $625.00 |
| **164387** | TM-U220D, USB, 115/230 VAC, gray | 10 lb | $450.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **83007** | Parallel option connect-it cartridge | $62.00 |
| **35666** | Protective dust cover | $60.00 |
| **31296** | Ink cartridge (purple) | $12.00 |
| **66499*** | Ink cartridge (black and red) | $12.00 |
| **69916** | One-ply Bond paper roll, (W x L) 3 in x 150 ft (76.2 mm x 45.7 m, 3 in) OD | $5.00/roll |
| **69915** | Two-ply Bond paper roll, (W x L) 3 in x 90 ft (76.2 mm x 27.4 m), white/canary yellow 3 in OD | $7.00/roll |
| **35667** | Additional operating manual | $16.00 |
| **72309** | Power supply, 12 VDC vehicle cigarette plug | $185.00 |
| **23112** | 115 VAC power supply (included with printer) | $110.00 |
| **Cables** | | |
| **15568** | 25-Pin D-sub male to 25-Pin D-sub male RS-232 serial interface cable | $65.00 |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |

*Interfaces to: Rice Lake indicators with a serial port screw terminal connection. Consult custom 20 mA/RS-232 serial interface cable $100.00 Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5 ft. $2.00 charge for each additional foot.*

**Red/Black ribbon to turn on ASCI code-27,1,14,48 ON 27,1,14,49 OFF*

## Specifications

**Print Speed:**
Approximately 4.7 lines per second

**Column Capacity:**
40/42 or 33/35 columns

**Characters Per Line:**
40 characters

**Print Area:**
3 in (76.2 mm) W

**Character Formation:**
7 x 9 and 9 x 9 dot matrix

**Character Height:**
0.12 standard font

**Character Set:**
95 alphanumeric characters,
37 international characters,
128 x 12 graphic characters

**Line Spacing:**
0.17 in (4.32 mm)

**Print Head Life:**
Approximately 100 million strokes/pin

**Form Thickness:**
0.002 in to 0.003 in (0.06 to 0.085 mm)

**Ribbon:**
Cassette-type purple ribbon. Ribbon life is approximately 1.5 million characters (continuous prints). Black ink also available.

**Serial Interfaces:**
Baud Rates: 4800, 9600
RS-232 compatible (DB-25F) or USB model

**Parity:**
7 or 8 bits, none, even or odd

**Operating Temperature:**
32° F to 122° F (0° C to 50° C)

**Stop Bits:**
1 or more

**Handshaking:**
DTR/DSR or XON/XOFF control selectable

**Overall Dimensions:**
Type A: (W x D x H): 6.3 x 11.3 x 6.2 in
(160 x 286 x 157.5 mm)
Type D: ( W x D x H): 6.3 x 9.7 x 5.4 in
(160 x 248 x 138.5 mm)

**Weight:**
10 lb

**Approvals:**
UL listed, CSA-certified, CE marked

**Warranty:**
Two-year limited warranty (includes print head)



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# EPSON® TM-U295
Ticket Printer

## Specifications

**Print Speed:**
1.9 to 2.3 lines per second (5 x 7 character, 3 dot line spacing)

**Column Capacity:**
35/42 columns

**Characters Per Line:**
35 standard font

**Print Area:**
2.59 in W (65.8 mm W)

**Character Formation:**
5 x 7 and 7 x 7 dot matrix

**Character Height:**
0.11 standard font

**Character Set:**
Full 96-character ASCII; with software control, 32 international characters, 128 x 2 graphic characters

**Line Spacing:**
0.16 in (4.06 mm) software programmable in 1/60 in units

**Print Head Life:**
Approximately 100 million strokes/pin

**Form Thickness:**
Single-ply: 0.003 in to 0.009 in (0.08 mm to 0.23 mm)
Copy paper: 0.003 in to 0.014 in (0.08 mm to 0.36 mm)

**Ribbon:**
Cassette-type purple ribbon. Ribbon life is approximately 1.5 million characters (continuous prints). Black ink also available.

**Serial Interfaces:**
RS-232 (DB-25F) compatible

**Baud Rates:**
1200, 2400, 4800, 9600, selectable

**Parity:**
7 or 8 bits, none, even or odd

**Stop Bits:**
1 or more

**Handshaking:**
DTR/DSR or XON/XOFF control selectable

**Overall Dimensions:**
(W x D x H): 7.08 x 7.49 x 3.99 in (180 x 190.5 x 101.5 mm)

**Weight:**
9 lb

**Approvals:**
UL listed, CSA certified, CE marked

**Warranty:**
One-year limited warranty (includes print head)




## Standard Features

- High-speed 1.9 to 2.3 lines per second printing
- Single copy or up to four-part multicopy ticket printing
- Remote-printing functionality sent via RS-232

*Note: does not support double-strike commands.*

### APPROVALS

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **23113** | TM-U295 Ticket Printer, RS-232, 115/230 VAC with power supply, cool white | 9 lb | $615.00 |
| **35891** | TM-U295 Ticket Printer, 115/230 VAC with RS-232 and power supply, 25 DB to blunt end cable, cool white | 9 lb | $660.00 |
| **33816** | TM-U295 Ticket Printer, RS-232, 24 VDC, cool white | 9 lb | $585.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **29582** | Protective dust cover | $55.00 |
| **29584** | Ink cartridge (purple) ERC-27 | $12.00 |
| **29583** | Ink cartridge (black) ERC-27B | $12.00 |
| **23112** | Power supply | $110.00 |
| **34344** | Additional operating manual | $20.00 |
| **72309** | Power supply, 12 VDC vehicle cigarette plug | $185.00 |
| **Cables** | | |
| **15568** | 25-Pin D-sub male to 25-Pin D-sub male RS-232 serial interface cable | $65.00 |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |
| **41279** | 25-Pin D-sub male to 9-Pin D-sub male, RS-232 with handshaking | $65.00 |
| **32810** | 25-Pin D-sub male to 8-Pin D-sub male, RS-232 with handshaking | $65.00 |
| **Consult*** | Custom 20 mA/RS-232 serial interface cable | $100.00 |

**Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.*

*Standard cable length is 5 ft. $2.00 charge for each additional foot.*





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# EPSON® TM-U590

Ticket Printer




## Standard Features

- High-speed 2.8 lines per second printing for 88 columns of print; 4.9 lines per second printing for 40 columns
- Single copy and up to five-part
- Wide slip capability of A4 size documents
- Remote -printing functionality sent via RS-232
- 5.2 in wide print area
- Supports double-strike commands

**APPROVALS**

c UL us LISTED

CE

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **68502** | TM-U590 Ticket Printer, RS-232 with power supply, 115/230 VAC, cool white | 12 lb | $1,095.00 |
| **128726** | TM-U590 Ticket Printer, RS-232 with European power supply, 115/230 VAC, cool white | 12 lb | $1,130.00 |
| **164391** | TM-U590, USB, with 115/230 VAC power supply, cool white | 12 lb | $1,250.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **68525** | Ink cartridge (purple) ERC-31 | $12.00 |
| **104145** | Ink cartridge (black) ERC-31B | $12.00 |
| **23112** | Power supply, U.S. version PS-180 | $110.00 |
| **128746** | Power supply, European version of PS-180 | $135.00 |
| **111840** | Protective dust cover | $65.00 |
| **68562** | Additional operating manual | $12.00 |
| **68725** | Technical manual | $35.00 |
| **72309** | Power supply, 12 VDC vehicle cigarette plug | $185.00 |
| **Cables** | | |
| **15568** | 25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |
| **41279** | 25-pin D-sub male to nine-pin D-sub male, RS-232 with handshaking Interfaces to: Rice Lake indicators with a serial port screw terminal connection | $65.00 |
| **32810** | 25-pin D-sub male to eight-pin D-sub male, RS-232 with handshaking Interfaces with DC-190, DC-100, DC-200, DC-300 | $65.00 |
| **Consult** | Custom 20 mA/RS-232 serial interface cable | $100.00 |

*Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.*

*Standard cable length is 5 ft. $2.00 charge for each additional foot.*

## Specifications

**Print Method:**
Nine-pin, serial impact dot matrix

**Font:**
7 x 9 and 9 x 9

**Column Capacity:**
88/66 columns

**Character Size:**
(W x H): 0.05 in x 0.12 in/0.06 in x 0.12 in
(1.3 mm x 3.1 mm/1.6 mm x 3.1 mm)

**Character Set:**
Alphanumeric: 95
International: 32
Graphic: 128 x 10

**Characters Per Inch:**
16.7 CPI/12.5 CPI

**Serial Interfaces:**
Bidirectional parallel,
RS-232 (DB-25F)/RS-485

**Data Buffer:**
4K/69 bytes

**Paper Dimensions:**
(W x L): 2.76 x 2.76 in/8.26 x 11.69 in
(70 x 70 mm/210 x 297 mm)

**Paper Thickness:**
0.003 in to 0.014 in (0.09 mm to 0.36 mm)

**Copy Capabilities:**
One original up to four copies

**Power:**
24 VDC ±10%

**Power Consumption:**
Approx. 43 W
Drawer Kickout Device Function:
Two drives

**Ribbon:**
ERC-31 (purple)

**Overall Dimensions:**
(W x D x H): 9.92 x 10.47 x 7.28 in
(252 x 266 x 185 mm)

**Weight:**
12 lb

**Approvals:**
CE marked, FCC class A, VCC #1,
UL and C-UL listed, TUV

**Warranty:**
One-year limited warranty (includes print head)



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## Specifications

**Print Speed:**
Up to 7 ips

**Print Length:**
Minimum: 0.16 in
Maximum: 68 in

**Print Width:**
2.12 in

**Media:**
Continuous form, gap labeling, black mark sensing and punched sensing
Label roll O.D. max: 5.0 in

**Core:**
1 in, 1.5 in
Thickness: 0.06 mm to 0.20 mm

**Printer Language:**
GZPL or GEPL, EZ PL auto switch

**Resident Fonts:**
11 resident alphanumeric fonts (included OCR A and B) are expandable eight times horizontally and vertically. All bit mapped fonts in eight orientations

**Bar Codes:**
Code 39, Code 93, Code 128 (subset A, B, C,) UCC/EAN - 128 K-Mart, UCC/EAN - 128, UPC A/E (add on 2 and 5,) 2 of 5, EAN 8/13 (add on 2 and 5.) Codabar, Post Net, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF 417, Datamatrix code, QR Code

**Dimensions:**
(L x H x W): 8.58 x 6.77 x 3.94 in
(218 x 172 x 100 mm)

**Interfaces:**
Baud rate 4800 to 115200; RS-232 (DB-9F)
USB port U2.0 (B-type)
Ethernet (RJ-45)

**Power:**
Auto switching 100/240 VAC 50/60 Hz

**Memory:**
8 MB flash

**Environment:**
Operation: 41° F to 104° F (5° C to 40° C)
Storage: -4° F to 122° F (-20° C to 50° C)

**Humidity:**
Operation: 30 to 85 % non-condensing, free air
Storage: 10 to 90 % non-condensing, free air

**Dimensions:**
(L x H x W): 8.58 x 6.77 x 3.94 in
(218 x 172 x 100 mm)

**Weight:**
2.65 lb

**Approvals:**
CE (EMC), FCC Class A, CB, CUL, CCC

**Warranty:**
Two-year limited warranty




## Standard Features

- Auto language emulations GEPL, GZPL
- Free GoLabel design software for EZPL
- 203 dpi (8 dot/mm)
- Drop-in media loading
- USB or RS-232 interface (DB-9F)
- Plain, gap label, black, mark or fanfold label
- Label length detection
- Direct thermal
- Model G500- direct thermal/thermal transfer
- 32 Bit CPU
- Serrated tear bar

**APPROVALS**

CE

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **167515** | DT2x 2 in direct thermal, time and date 10/240 VAC printer | 2.65 lb | $345.00 |
| **167626** | Label peeler, black | — | $39.00 |
| **167627** | Cutter, black | — | $200.00 |
| **107532** | Print head | — | $110.00 |
| **Cables** | | | |
| **41276** | 6 ft serial cable DB9 M to blunt end (Rice Lake indicators) | — | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | — | $30.00 |
| **64661** | 6 ft serial cable DB9 M to 8-Pin DIN | — | $65.00 |
| **64660** | 6 ft serial cable DB9 M to DB9 male | — | $65.00 |
| **Consult** | Custom RS-232 serial cable | — | $100.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **38941** | Cleaning pen for open print head printers 12/box | $57.00 |
| **35664** | Cleaning cards, (W x L) 4x 6 in for RL-42DT and RL-42TT | $50.00 |
| **111085** | Power supply, printers | $158.00 |
| **15438** | Power cord, detachable | $17.75 |
| **Label Stock/Ribbon** | | |
| **110347** | Direct thermal, (W x L) 2.25 x 1.25 in, 5 in diameter with perf., 2,100/roll | $12.80/roll |
| **40332** | Direct thermal, (W x L) 2.25 x 2 in, 5 in diameter with perf., 1,445/roll | $14.25/roll |
| **110348** | Direct thermal, (W x L) 2.25 x 3 in, 5 in diameter with perf., 950/roll | $13.50/roll |
| **110349** | Direct thermal, (W x L) 2.25 x 4 in, 5 in diameter with perf., 700/roll | $10.80/roll |
| **65617** | Direct thermal, (W x L) 2.25 x 4.5 in, 5 in diameter with perf., 600/roll | $14.60/roll |
| **110346** | Direct thermal, (W x L) 1.20 x 0.85 in, 5 in diameter with perf., 2710/roll | $8.25/roll |
| **47761** | Direct thermal, (W x L) 2.5 x 121 ft, continuous 12 rolls/case | $66.00/case |





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# GoDEX® DT4xW

Label Printer




## Standard Features

- Auto language emulations GEPL, GZPL
- Free GoLabel design software for EZPL or Q Label
- 203 dpi (8 dot/mm)
- Drop in media loading
- USB or RS-232 interface (DB-9F)
- Plain, gap label, black, mark or fanfold label
- Label length detection
- Direct thermal
- Model G500- direct thermal/thermal transfer
- 32 Bit CPU

**APPROVALS**

CE

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **167516** | DT4xW 4 in direct thermal, time and date 110/240 VAC printer | 3.3 lb | $365.00 |
| **167628** | Label peeler, black | — | $45.00 |
| **167629** | Cutter, black | — | $200.00 |
| **150743** | Print head | — | $195.00 |
| **107638** | Guardian enclosure | — | $1,150.00 |
| **Cables** | | | |
| **41276** | 6 ft serial cable DB9 M to blunt end (Rice Lake indicators) | — | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | — | $30.00 |
| **64661** | 6 ft serial cable DB9 M to 8-Pin DIN | — | $65.00 |
| **64660** | 6 ft serial cable DB9 M to DB9 male | — | $65.00 |
| **Consult** | Custom RS-232 serial cable | — | $100.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **38941** | Cleaning pen for open print head printers 12/box | $57.00 |
| **35664** | Cleaning cards, (W x L) 4x 6 in for RL-42DT and RL-42TT | $50.00 |
| **111085** | Power supply, printers | $158.00 |
| **15438** | Power cord, detachable | $17.75 |
| **193466** | Real-time clock for DT4xW | $20.00 |
| **Label Stock/Ribbon** | | |
| **53251** | Direct thermal, (W x L) 4 x 3 in, 5 in diameter with perf., 930/roll | $23.35/roll |
| **40331** | Direct thermal, (W x L) 4 x 4 in, 5 in diameter with perf., 745/roll | $23.35/roll |
| **37345** | Direct thermal, (W x L) 4 x 6 in, 5 in diameter with perf., 450/roll | $20.00/roll |

## Specifications

**Print Speed:**
Up to 7 ips

**Print Length:**
Minimum: 0.16 in
Maximum: 68 in

**Print Width:**
4.25 in

**Media:**
Continuous form, gap labeling, black mark sensing and punched sensing
Label roll O.D. max: 5.0 in

**Real Time Clock:**
Standard

**Core:**
1 in, 1.5 in
Thickness: 0.06 mm to 0.20 mm

**Printer Language:**
GZPL or GEPL, EZ PL auto switch

**Resident Fonts:**
11 resident alphanumeric fonts (included OCR A and B) are expandable eight times horizontally and vertically. All bit mapped fonts in eight orientations

**Bar Codes:**
Code 39, Code 93, Code 128 (subset A, B, C,) UCC/EAN - 128 K-Mart, UCC/EAN - 128, UPC A/E (add on 2 and 5,) 2 of 5, EAN 8/13 (add on 2 and 5.) Codabar, Post Net, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF 417, Datamatrix code, QR Code

**Interfaces:**
Baud rate 4800 to 115200; RS-232 (DB-9F)
USB port U2.0 (B-type)
Ethernet (RJ-45)

**Power:**
Auto switching 100/240 VAC 50/60 Hz

**Memory:**
8 MB flash

**Environment:**
Operation: 41° F to 104° F (5° C to 40° C)
Storage: -4° F to 122° F (-20° C to 50° C)

**Humidity:**
Operation: 30 to 85 % non-condensing, free air
Storage: 10 to 90 % non-condensing, free air

**Dimensions:**
(L x H x W): 8.58 x 6.53 x 6.61 in
(218 x 166 x 168 mm)

**Weight:**
3.3 lb

**Approvals:**
CE (EMC), FCC Class A, CB, CUL, CCC

**Warranty:**
Two-year limited warranty



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# GoDEX® G500
Label Printer




## Specifications

**Print Speed:**
5 ips

**Print Length:**
Minimum: 0.16 in
Maximum: 68 in

**Print Width:**
4.25 in

**Media:**
Continuous form, gap labeling, black mark sensing and punched sensing
Label roll O.D. max: 5.0 in

**Core:**
1 in, 1.5 in
Thickness: 0.06 mm to 0.20 mm

**Ribbon:**
Core: 1 in
Length: 300 m
Max ribbon roll O.D.: 2.67 in
Wide: 1.18 to 4.33 in

**Printer Language:**
GZPL or GEPL, EZ PL auto switch

**Resident Fonts:**
11 resident alphanumeric fonts (included OCR A and B) are expandable eight times horizontally and vertically. All bit mapped fonts in eight orientations

**Bar Codes:**
Code 39, Code 93, Code 128 (subset A, B, C,) UCC/EAN - 128 K-Mart, UCC/EAN - 128, UPC A/E (add on 2 and 5,) 2 of 5, EAN 8/13 (add on 2 and 5.) Codabar, Post Net, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF 417, Datamatrix code, QR Code

**Memory:**
8 MB flash

**Interfaces:**
Baud rate 4800 to 115,200; RS-232 (DB-9F)
USB port U2.0 (B-type)
Ethernet (RJ-45)

**Power:**
Auto switching 100/240 VAC 50/60 Hz

**Environment:**
Operation: 41° F to 104° F (5° C to 40° C)
Storage: -4° F to 122° F (-20° C to 50° C)

**Humidity:**
Operation: 30 to 85 % non-condensing, free air
Storage: 10 to 90 % non-condensing, free air

**Dimensions:**
(L x H x W): 11.2 x 6.8 x 8.9 in
(285 x 171 x 226 mm)

**Weight:**
6 lb

**Approvals:**
CE (EMC), FCC Class A, CB, CUL, CCC

**Warranty:**
Two-year limited warranty

## Standard Features

- Auto language emulations GEPL, GZPL
- Free GoLabel design software for EZPL or Q Label
- 203 dpi (8 dot/mm)
- Drop in media loading
- USB or RS-232 (DB-9F) interface
- Plain, gap label, black, mark or fanfold label
- Label length detection
- Direct thermal
- Model G500- direct thermal/thermal transfer
- 32-bit CPU

**APPROVALS**

CE

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **132425** | G500 4 in direct/thermal transfer, 110/240 VAC printer | 6 lb | $585.00 |
| **150744** | Label peeler, black | — | $40.00 |
| **150745** | Cutter | — | $425.00 |
| **150746** | Print head | — | $195.00 |
| **107639** | Guardian enclosure | — | $1,150.00 |
| **Cables** | | | |
| **41276** | 6 ft serial cable DB9 M to blunt end (Rice Lake indicators) | — | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | — | $30.00 |
| **64661** | 6 ft serial cable DB9 M to 8-Pin DIN | — | $65.00 |
| **64660** | 6 ft serial cable DB9 M to DB9 male | — | $65.00 |
| **Consult** | Custom RS-232 serial cable | — | $100.00 |

## Options/Accessories

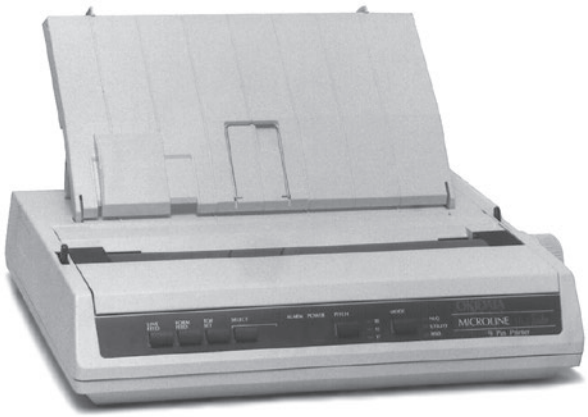
| Part # | Description | Price |
|---|---|---|
| **38941** | Cleaning pen for open print head printers 12/box | $57.00 |
| **35664** | Cleaning cards, (W x L) 4x 6 in for RL-42DT and RL-42TT | $50.00 |
| **111085** | Power supply, printers | $158.00 |
| **15438** | Power cord, detachable | $17.75 |
| **Label Stock/Ribbon** | | |
| **53261** | Thermal transfer, (W x L) 4 x 3 in, 5 in diameter with perf., 930/roll | $18.05/roll |
| **178965** | Ribbon (black),4.3 in wax/resin, 984 ft length | $25.00/roll |
| **110537** | Ribbon (black),2.5 in wax/resin, 984 ft length | $4.50/roll |



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# Okidata 186 Plus

Microline Printers



## Standard Features

- Vertical tabs
- Long-lasting, self-inking ribbon cartridge
- Bit image graphics for plotting charts, graphs and drawings
- Full ASCII character set
- Friction and adjustable pin feed paper handling
- Nine-pin, long-life print head
- RS-232 (DB-25F) and USB interface
- Near letter-quality printing at 50 characters per second
- Superscripts, subscripts and underlining
- Bottom, rear or top feed

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **189603** | Okidata 186 Plus Printer with RS-232 and USB 115 VAC | 10 lb | $660.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **20236** | Tractor feed kit with friction rollers | $88.00 |
| **20664** | Ribbon cartridge black | $8.00 |
| **21208** | Protective dust cover | $65.00 |
| **41364** | Additional operating manual | $35.00 |
| **Cables** | | |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |

## Specifications

**Print Method:**
Nine-Pin (0.34 mm dia.) serial impact dot matrix

**Graphics Resolution:**
240 x 216 maximum

**Print Speed* (CPS):**
NLQ: 62; Utility: 250; High Speed Draft: 333; Super Speed Draft: 375

**Feed Rate:**
2.0 ips

**Emulations:**
IBM® 2480 Epson E6C/P or OKI® Microline®

**Interface:**
USB, RS-232 (DB-25F)

**Compatibility:**
186/Windows® XP, 2000, 98/95

**Receive Buffer:**
One line buffer

**Paper Input:**
Cut sheet, 7.2 in to 8.5 in W
(182.9 mm to 215.9 mm W)
Bottom feed with pull tractor option

**Number Of Copies:**
Five copies

**Pin Feed:**
Continuous, 9.5 in to 10.5 in wide
(241.3 mm to 266.7 mm wide)

**Paper Thickness:**
0.014 in (0.35 mm) maximum

**Paper Path:**
Bottom, rear or top

**Paper Weight:**
Cut sheet: 16 lb to 24 lb (7.2 kg to 10.8 kg),
Continuous: 16 lb to 20 lb (7.2 kg to 9.1 kg)

**Electrical:**
120 VAC: ±10%; 220/240 VAC: ±10%

**Power Consumption:**
Operating: 35 W
Idle: 7 W

**Reliability (MTBF):**
70,000 hours

**Print Head Life:**
200 million characters

**Ribbon Type:**
Black cartridge (2 million characters nominal life)

**Operating Temperature:**
40° F to 104° F (4° C to 40° C) at 25% to 80% relative humidity

**Overall Size:**
(W x D x H): 14.2 x 10.8 x 3.2 in
(360.7 x 274.3 x 81.3 mm)

**Est. Ship Weight:**
10 lb (4.5 kg)

**Warranty:**
One-year limited warranty (includes print head)

** Print speeds apply to all pitches (10, 12, 17.1, and 20 cpi)*
*** Requires optional pull tractor (part #41224)*

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DISCONTINUED

## Specifications

**Print Method:**
Okidata 320/420: 9-Pin (0.34 mm dia.) serial impact dot matrix
Okidata 390: 24-Pin (0.20 mm dia.) serial impact dot matrix

**Graphics Resolution:**
Okidata 320/420: 240 (H) x 216 (V) DPI maximum (Epson®/IBM®)
Okidata 390: 360 (H) x 360 (V) DPI maximum (Epson/IBM AGM)

**Print Speed** (cps):**
Okidata 320: NLQ: 75; Utility: 300; High Speed Draft: 390; Super Speed Draft: 435
Okidata 390: LQ: 105; Utility: 315; Super Speed Draft: 390 (15 cpi)
Okidata 420: NLQ95; High Speed Draft: 5p 510; Utility: 570, Super 570

**Feed Rate:**
5.0 ips

**Emulations:**
Okidata 320: Epson EX-PPR II and OKI® Microline®
Okidata 390: Epson ESC/P2, IBM ProPrinter® and IBM AGM
Okidata 420: Epson Fx IMB Pro Point Micro

**Interface:**
Okidata 320/390/420: IEEE 1284 bidirectional parallel; Windows® 95 plug and play compatible, USB
Okidata 390: Centronics® and IEEE 1284 bidirectional parallel

**Compatibility:**
Windows® XP, 2000, 98/95

**Receive Buffer:**
Okidata 320: 28K
Okidata 390: 23K
Okidata420: 128K

**Code Pages:**
Standard ASCII; Epson character set I and II; IBM character set I, I and AII; Code Page 850, 860, 863, 865, 437; BRASCII and ABICOMP

**Resident Fonts:**
Okidata 390: LQ: Courier, Letter Gothic, Orator, Prestige, Roman and Swiss/Bold; Utility: Gothic

**Scaleable Fonts:**
Okidata 320/420: Courier, Gothic (22-216 pt. in one pt. increments)
Okidata 390: Courier, Roman and Swiss™ (8-64 pt. in one pt. increments)

**Bar Codes:**
Code 39, UPC A, UPC E, EAN 8, EAN 13, Interleaved 2 of 5, Code 128 (A, B, C), PostNet™

**Paper Input:**
Single/multi-part, continuous, cut sheet, envelopes, card stock, labels
Bottom feed with pull tractor option

**Number Of Copies:**
Okidata 320: Six
Okidata 390: Four
Okidata 420: Six

**Tractor:**
3.5 to 10.5 in wide (88.9-266.7 mm wide), rear push with zero tear and paper park (optional)

**Paper Thickness:**
Rear feed: 0.014 in (0.35 mm) maximum;
Bottom feed***: 0.017 in (0.43 mm) maximum, expandable to 0.01 in (.78 mm)

**Paper Path:**
Bottom, rear or top

**Paper Weight:**
Cut sheet 16 to 24 lb (7.2 to 10.8 kg), Continuous 16 to 20 lb (7.2 to 9.1 kg)



*Okidata 320 Turbo Microline*

## Standard Features

- Vertical tabs
- Long-lasting, self-inking ribbon cartridge
- Bit image graphics for plotting charts, graphs and drawings
- Full ASCII character set
- Friction and adjustable pin feed paper handling

## Okidata 320/420 Turbo*:

- Nine-pin, long-life print head (parallel input)
- Centronics®-compatible parallel interface
- Near letter-quality printing at 63 characters per second
- 80 columns with standard characters, 160 columns with condensed characters
- Front access panel for quick and easy control of type size, print quality and other frequently used printer functions

## Okidata 390 Turbo:

- 24-pin, long-life print head
- Supports Windows® 95/98
- Superior, professional quality printer
- Auto-tear accurately positions continuous forms for a clean tear at the perforation
- Three scaleable fonts
  ** Use with CBI*

## Specifications Continued

**Electrical:**
115 VAC, 230 VAC

**Power Consumption:**
Okidata 320: Operating: 100 W
Okidata 390: Operating: 43 W Idle: 10 W
Okidata 420: 20,000 hours

**Reliability (MTBF):**
10,000 hours (25% duty cycle, 35% page density)

**Print Head Life:**
200 million characters

**Ribbon Type:**
Black cartridge (2 million characters nominal life)

**Operating Temperature:**
40° F to 104° F (4° C to 40° C) at 25% to 80% relative humidity

**Overall Size:**
Okidata 320 and 390: (W x D x H): 15.7 x 13.6 x 4.6 in (398.8 x 345.4 x 116.8 mm)
Okidata 420: 15.7 x 13.6 x 6.0 in

**Est. Ship Weight:**
Okidata 320: 16 lb (7.2 kg)
Okidata 390: 15 lb (6.8 kg)
Okidata 420: 17 lb (7.7 kg)

**Warranty:**
320/390: One-year limited warranty (includes print head)
420: Three-year limited warranty

*** Print speeds apply to all pitches (10, 12, 17.1, and 20 cpi)*
**** Requires optional pull tractor (part #41224)*

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# Okidata 320/390/420 Turbo

Microline Printers

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **126438** | Okidata 320 Microline Turbo printer with RS-232 interface, 115 VAC | 16 lb | $960.00 |
| **41222** | Okidata 320 Microline printer with parallel/USB interface, 115 VAC | 16 lb | $790.00 |
| **41223** | Okidata 320 Microline printer with parallel/USB interface, 230 VAC | 16 lb | $790.00 |
| **75106** | Okidata 390 Microline Turbo printer with parallel/USB interface, 115 VAC | 15 lb | $810.00 |
| **102959** | Okidata 420 Microline Turbo printer with parallel/USB interface, 115 VAC | 16 lb | $825.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Cables** | | |
| **15547** | Blunt end, 25-Pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |
| **320/420 Turbo Options and Accessories** | | |
| **41224** | Pull tractor kit for bottom-fed continuous forms and push/pull operation | $98.00 |
| **20239** | RS-232 input board, older revisions | $170.00 |
| **121454** | RS-232 option board, 320 Rev 10 | $170.00 |
| **20664** | Ribbon cartridge black, 320 and 390 | $8.00 |
| **132249** | Ribbon cartridge for 420 | $8.00 |
| **21226** | Protective dust cover | $65.00 |
| **41363** | Additional operating manual | $35.00 |
| **390 Turbo Options and Accessories** | | |
| **75107** | Cut sheet feeder | $490.00 |
| **20239** | RS-232 option board, older version | $170.00 |
| **41224** | Pull tractor kit for bottom-fed continuous forms and push/pull operation | $98.00 |
| **20664** | Ribbon cartridge black | $8.00 |

*Standard unit has pins on roller for holes on paper*

*Interfaces to: Rice Lake indicators with a serial port screw terminal connection*

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# Printek MtP400si
Mobile Printer

## Specifications

**Print Method:**
Direct thermal

**Resolution:**
203 dpi (8 dots per mm)

**Print Speed:**
Up to 3.3 ips

**Width:**
Up to 4.1 in (10.41 cm)

**Fonts:**
A wide range of font types and sizes, from 6 cpi to 34 cpi depending on emulation chosen, plus scaling

**International Characters:**
An expanding catalog available for download. Bar Codes: 39, 128, Intlv 2 of 5, EAN08 and 13, PDF-417 and UPC, depending on emulation chosen.

**Connectivity:**
RS-232 (DB-9F)

**Software:**
Drivers and Utilities: Drivers for WIN 98, 2000, XP. compatible with Windows® CE/Pocket PC and Palm OS print utilities and SDK's.
Printer Setup program provides convenient configuration via a Windows interface from any computer

**Emulations:**
Emulates many popular printer brands and languages including O'Neil, Zebra CPCL and ZPL, Extech, IPL, MPL, E-Sim and Printek Mt3. Can be upgraded as new emulations become available

**Ingress Protection Rating:**
IP54

**Print Media:**
Paper Type: Direct thermal roll
Roll Size: Maximum roll diameter 2.625 in (6.7 cm) allows roll widths from 3in to 4.125 in (7.6 to 10.5 cm)
Roll Capacity: Approximately 171 ft (52.1 cm) max.
Core Size: 0.75 in (1.9 cm)

**Electronics/Power:**
Ruggedized screw down-type DB-9 connector for power and I/O.
DC Input: 8 to 32 VDC
Overvoltage Protection: 80 VDC for 1 hour. Failsafe to 180 VDC.
I/O Short Circuit: Tolerant of shorts to ground or DC input.

**Dimensions:**
(L x W x H): 7.7 x 6.6 x 3.1 in
(19.56 x 16.76 x 7.87 cm)

**Weight:**
2.0 lb (0.90 kg)

**Memory:**
2 MB Flash, 1 MB SRAM. Standard memory supports large and graphic intensive print jobs

**Operating Temperature:**
-40° F to 185° F (-40° C to 85° C)

**Operating Humidity:**
10% to 90% RH (non-condensing)
Rated IP54 per IEC529
Chemical resistant case per SAEJ1455

**Operator Controls And Indicators:**
4 illuminated icons for general fault, wireless connection, MCR ready and battery status.
2 line LCD for system alerts and messages, configuration setup and battery charge
Buttons for power, paper feed and setup menu.
Sensors for paper out, black mark detection, and door open.




## Standard Features

- Designed for superior resistance to impact and harsh chemicals
- IP54 rated for water and dust resistance
- Rugged, screw down connector for power and data
- Simple drop-in paper loading
- Direct thermal printing
- Wide input voltage range and superior circuit protection
- Onboard weighing, forklift applications
- Data/power cable and one roll of paper supplied with printer

**APPROVALS**

UL LISTED

CE

FCC
NRTL

## Specifications Continued

**Durability And Reliability:**
Survives multiple 4 foot drops to concrete (each face) and conforms to IEC 68-2

**Vibration Resistance:**
9.8 frms 24 to 2000 Hz
MTBF: 10,000 hours in normal use

**Approvals:**
FCC Class B, CE mark, UL listed AC adapters, E-mark on In-Vehicle adapters

**Warranty:**
One-year printer warranty on the entire printer—case and print head included

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **115527** | MtP400si, 4 in direct thermal printer, IP54, RS-232 | 2 lb | $1,415.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **115528** | Paper roll, thermal 4.125 in wide, 1.625 OD, .75 in core | $6.30 |
| **115529** | Universal ball-mount | $24.00 |
| **118713** | Uncoiled data/power cable | $80.00 |



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# Star® Micronics SP298

Dot Matrix Ticket Printer




## Standard Features

- Top and bottom paper sensing
- AutoSide Loading™ for quick and easy document loading
- Bidirectional serial impact printer capable of printing graphics using a highly reliable nine-pin printhead
- Up to 3.1 lines per second printing with bidirectional check mode
- Epson TM-U295/TM290 compatible with same size footprint and interchangeable power supply, easier paper and ribbon loading
- Single or up to three-part multicopy ticket printing
- Cash drawer driver

## APPROVALS

c UL us LISTED

UL LISTED

## Specifications

**Print Speed:**
3.1 lines per second (13 mm/sec)

**Print Width:**
2.5 in (63 mm)

**Line Spacing:**
1/6 in, N/144 in Star line mode,
1-60 in-ESC/POS™ mode

**Print Head:**
Nine-Pin

**Number Of Columns:**
42

**Print Direction:**
Bidirectional

**Paper Width:**
3.15 in to 7.17 in (80 mm to 182 mm)

**Paper Thickness:**
0.004 in to 0.008 in (0.09 mm to 0.2 mm)

**Copy Capabilities:**
1 original and 2 copies

**Paper Sensors:**
Top and bottom of form

**Ribbon:**
Cassette-type purple ribbon. Ribbon life is approximately 2.2 million characters
(continuous print)

**Printer Reliability:**
9 million lines MCBF (CRT)

**Print Head Reliability:**
70 million characters

**Interface:**
RS-232 (DB-25F) serial interface

**Data Buffer:**
Star mode: 2KB or 35 bytes ESC/POS mode: 512 bytes or 35 bytes

**Emulation:**
Star mode, ESC/POS™ (TM-U295/TM290)

**Drawer Kickout Device Funcition:**
2 drivers

**Drivers:**
Windows® 95/98/2000/NT 4.0, OPOS, JavaPOS™

**Operating Temperature:**
41° F to 104° F (5° C to 40° C)

**Humidity:**
10% to 80% RH

**Dimensions:**
(W x H x D): 7.09 x 7.48 x 7.48 in
(180 x 138 x 190 mm)

**Weight:**
9 lb

**Approvals:**
UL and C-UL listed, TUV

**Warranty:**
Three-year limited warranty on parts
One-year limited warranty on print head



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **69901** | SP298 Ticket Printer with RS-232 and power supply, 115/230 VAC (gray) | 9 lb | $600.00 |
| **69902** | SP298 Ticket Printer with RS-232, 24 VDC (gray) without power supply | 9 lb | $590.00 |

## Options/Accessories

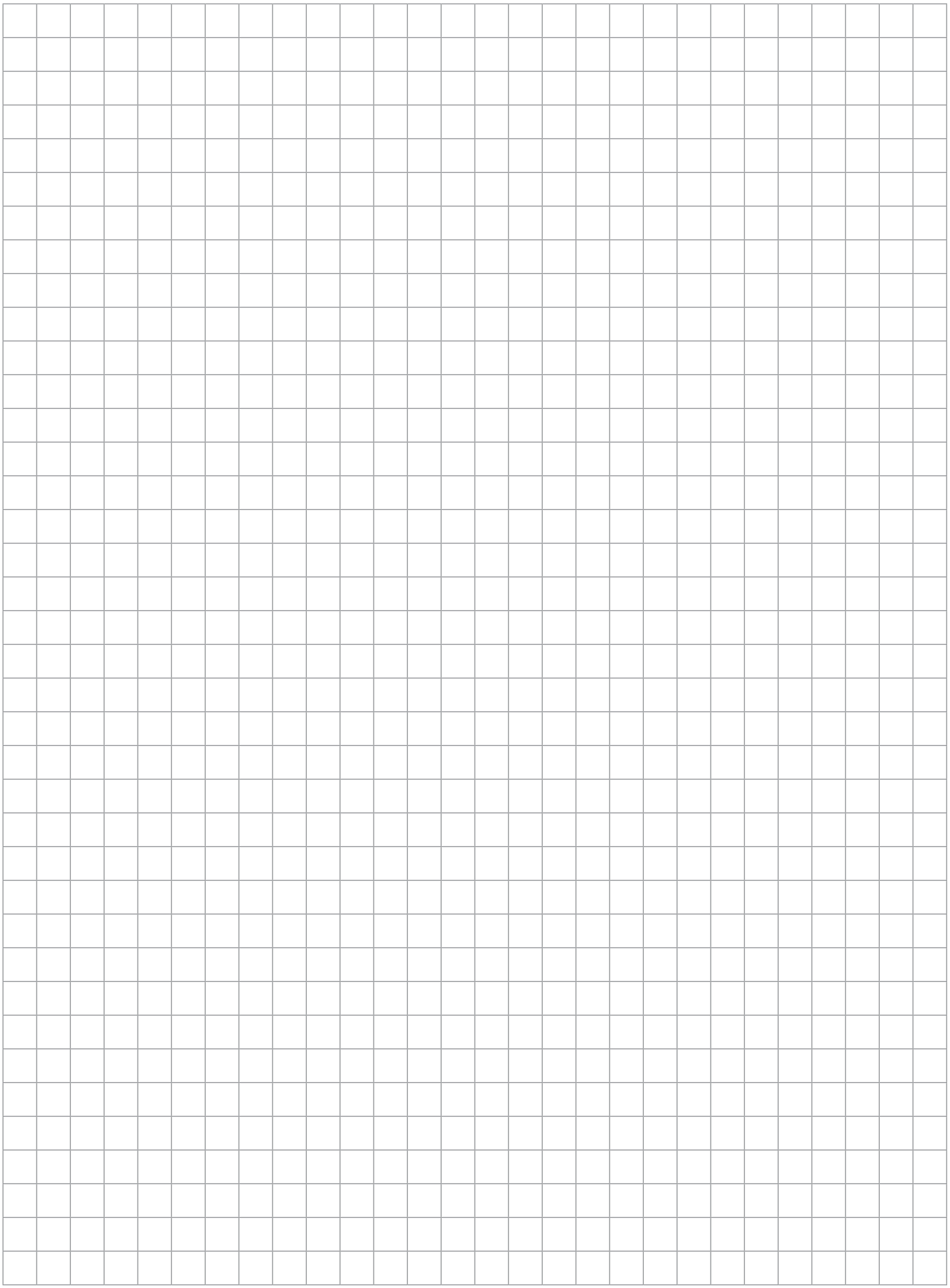
| Part # | Description | Price |
|---|---|---|
| **69921** | Ink ribbon (purple) | $12.00 |
| **69903** | Power supply, PS-60-24A | $100.00 |
| **72309** | Power supply, 12 VDC with cigarette plug (also works with TM-U295) | $185.00 |
| **Cables** | | |
| **15547** | Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |
| **15568** | 25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **72440** | 25-pin to nine-pin, D-sub female cable | $65.00 |

*USB and Parallel versions available for quote*





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# Star® SP742
Dot Matrix Printers

## Specifications

**Print Method:**
Nine-pin impact dot matrix

**Print Speed:**
13 RPM

**Paper Width:**
70 mm and 58 mm (with paper guide)

**Emulation:**
Star mode, ESC/POS

**Power:**
110 to 230 VAC

**MCBF:**
22 million lines

**Cutter:**
1 million cuts

**Connectivity:**
Nine-pin serial (DB-25F), parallel, USB, Ethernet, Wi-Fi

**Drivers:**
2000 XP (L), XP embedded (L), VISTA (G) (32-and 64-bit)

**Dimensions:**
(W x H x D): 160 x 152 x 245 mm

**Weight:**
9 lb

**Warranty:**
Three-year limited warranty



## Standard Features

- Spill-proof cover
- Single-color highlights
- Power switch cover
- Internal universal power supply
- Serial interface
- Star and ESC/POS emulation
- Black mark sensor
- More than four lines per second print speed
- Auto cutter and tear bar versions
- Prints multiple copies (original and two copies)
- High reliability
- Prints graphics

## APPROVALS

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UL LISTED

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **103142** | SP742 RS-232 tape printer, cutter | 9 lb | $490.00 |

*Consult factory for models with a parallel interface.*

## Options/Accessories

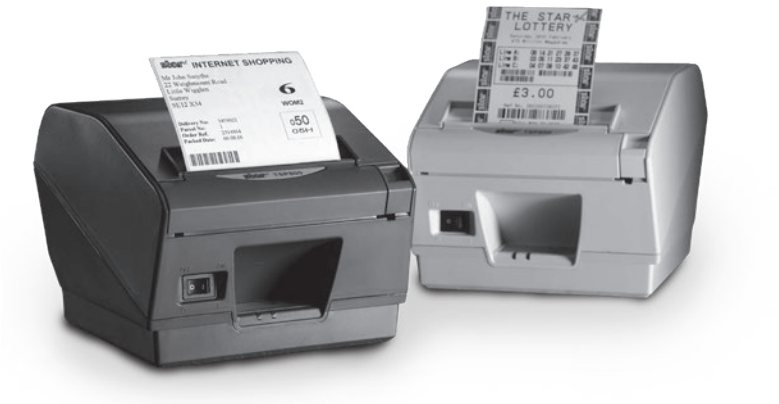
| Part # | Description | Price |
|---|---|---|
| **69921** | Ink ribbon (purple) SP500, SP2000, SP200, series | $12.00 |
| **103728** | Ink ribbon (black), SP700 Series | $12.00 |
| **69916** | One-ply paper roll, (W x D) 3 x 3 in, 150 ft roll, Bond, 3 in OD | $5.00 |
| **69915** | Two-ply paper roll, (W x D) 3 x 3 in white/canary yellow, 90 ft roll, 3 in OD | $7.00 |
| **121331** | Wall mount bracket, SP700 Series | $30.00 |
| **Cables** | | |
| **15547** | Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |
| **15568** | 25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **72440** | 25-pin to nine-pin D-sub female cable | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | $30.00 |



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# Star® TSP 847

Receipt Thermal Printer




## Standard Features

- Direct Thermal
- Small desktop footprint
- Jam-proof patented cutter with full or partial cut
- Wide area printing
- Zoom raster drive allows letter-sized documents to be printed in 4.4 format
- Logo storage capability

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **107617** | TSP847D-24 line receipt printer (requires power supply) | 5 lb | $625.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **69903** | Power supply, PS-60-24A | $100.00 |
| **72309** | Power supply, 12 VDC with car adaptor | $185.00 |
| **107618** | Thermal paper 4.4 in wide, 4 in OD | $10.50 |
| **Cables** | | |
| **15547** | Blunt-end 25-pin D-sub male RS-232 | $65.00 |
| **15568** | 25-pin D-sub male to 25 pin D-sub male RS-232 serial interface cable (Rice Lake indicators) | $65.00 |
| **72440** | 25-pin male to nine-pin female | $65.00 |

## Specifications

**Print Speed:**
1,200 dots per second (150 mm/sec)

**Paper Width:**
Max 104 mm

**Resolution:**
203 dpi

**Bar Codes:**
Code 39, Interleaved 2 of 5, JAN/EAN/UPC, Code 128, Code 93, Coderbar, GS1-128

**Emulation:**
Star, DP8340

**Roll Paper:**
Paper width 111.5 mm (4.4 in)
Thickness 65 to 150
Diameter 4 in

**Drivers:**
Windows® 9X, 2000, XP, Linux, OPOS, JPOS, Mac OSX ™

**Interface:**
RS-232 serial (DB-25F)

**Operating Temperature:**
41° F to 113° F (5° C to 45° C)

**Dimensions:**
(W x D x H): 7 x 8.4 x 5.8 in (180 x 213 x 148 mm)

**Weight:**
5 lb

**Approvals:**
RoHS compliant

**Warranty:**
Three-year limited warranty



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## Specifications

**Print Speed:**
TSP654: 300 mm per second, 60 RPM
TSP743: 7 in (177.8 mm) per second, 60 lines per second at 3 mm per line
(180 mm/sec)

**Print Width:**
TSP654: 80 mm paper: 2.83 in (80 mm)
58 mm paper: 2.05 in (52 mm)
TSP743: Standard: 2.83 in (80 mm)
Optional: 2.05 in (52 mm), 3.15 in (80 mm)

**Line Spacing:**
3 mm, 4 mm (1/8 in, 1/6 in)

**Resolution:**
203 dpi (8 dots/mm)

**Number Of Columns:**
TSP654: 80 mm paper: 24, 48 or optional 64 (ESC/POS) 58 mm paper: 17, 34 or optional 46 (ESC/POS)
TSP743: Standard: 48, 71 (maximum)

**Bar Codes:**
TSP654: UPC-A/E, JAN/EAN-8/13, Code 39/93/128, Codabar (NW7), ITF
TSP743: UPC-A/E, JAN/EAN-8/13, Code 39/93/128, Codabar (NW7)

**Paper Width:**
Adjustable. Standard: 3.15 in (80 mm)
Optional: 2.28 in (58 mm)
TSP743 Optional: 3.25 in (82.5 mm)

**Logo Store:**
TSP654: 2 M bit
TSP743: 4 M bit

**Paper Thickness:**
TSP654: 0.002 in to 0.003 in (0.065 mm to 0.085 mm)
TSP743: 0.003 in to 0.006 in (0.065 mm to 0.150 mm)

**Roll Diameter:**
3.5 in (90 mm)

**Paper Roll Core:**
1/2 in to 1.00 in (12 mm to 25.4 mm)

**Paper Path:**
TSP654: Internal roll
TSP743: Slot in rear or internal roll

**Paper Loading:**
“Drop-in and print” and external rear feed

**Paper Sensors:**
TSP654: Near end, paper out, cover open
TSP743: Near end, paper out, top of form

**Printer Reliability:**
60 million lines MCBF (CRT)

**Cutter Reliability:**
TSP654: 0.5 million cuts
TSP743: 2 million cuts

**Data Buffer:**
8K bytes

**Interface:**
RS-232 serial DB-25F

**Emulation:**
Star line mode, ESC/POS™ (TM-U295/TM290)

**Drawer Kickout Device Function:**
2 drivers

**Auto Cutter:**
Full and partial cut

**Drivers:**
Windows® 95/98/2000/NT 4.0, Windows® legacy printer, OPOS, JavaPOS™,
Star Raster Graphics Mode, Linux



*TSP654*



*TSP743*

## Standard Features

- 203 dpi (8 dots/mm) print resolution
- Two-color printing (software enabled)
- Small footprint
- Easy load "drop-in and print" paper loading
- Adjustable paper width
- Logo storage utility for easy logo data
- Drawer kickout device function
- Cutter
- Easy to change "cartridge-type interface" from RS-232 (DB-25F) to parallel

### APPROVALS

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## TSP743

- Label printing

## Specifications Continued

**Operating Temperature:**
41° F to 113° F (5° C to 45° C)

**Humidity:**
10% to 90% RH (with out condensation)

**Overall Dimensions:**
TSP654: (W xH x D): 5.59 x 5.16 x 7.83 in (142 x 131 x 199 mm)
TSP743: (W x H x D): 5.79 x 5.83 x 8.39 in (147 x 148 x 213 mm)

**Appovals:**
UL and C-UL listed, FCC, TUV

**Warranty:**
Three-year limited warranty on parts
One-year limited warranty on print head and cutter





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# Star® TSP654II/TSP743 II

Direct Thermal Printers

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **69910** | TSP654II direct thermal, RS-232 with power supply, 115/230 VAC, wall mount bracket | 8 lb | $460.00 |
| **69907** | *TSP743II direct thermal transfer, RS-232 with power supply, 115/230 VAC | 8 lb | $600.00 |
| **69908** | *TSP743II direct thermal transfer, RS-232 only, 24 VDC | 8 lb | $590.00 |
| **85929** | *TSP743II direct thermal, parallel without power supply | 8 lb | $590.00 |

** If using for labels with black mark, request printer to be configured by Rice Lake Weighing Systems*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **TSP654** | | |
| **69903** | Power supply, PS-60-24A | $100.00 |
| **69917** | One-ply thermal, (W) 3.125 in (75.44 mm, 2.97 in dia.) 7/16 core 230 ft | $5.00 |
| **107041** | MaxStick receipt paper for TSP654 3 1/8 wide 150 ft long adhesive strip | $18.75 |
| **72309** | Power supply, 12 VDC with vehicle cigarette lighter | $185.00 |
| **71355** | Parallel cartridge option | $60.00 |
| **TSP743** | | |
| **69919** | Wall mount bracket | $80.00 |
| **70598** | Label, DTL, (W x L x D) 3 x 1 x 4 in, with black line timing mark 1,600 labels/roll | $22.00 |
| **70597** | Label, DTL, (W x L x D) 3 x 2 x 4 in, with black line timing mark 900 labels/roll | $22.00 |
| **Cables** | | |
| **15547** | Blunt end, 25-pin D-sub male RS-232 serial interface cable, (Rice Lake indicators) | $65.00 |
| **15568** | 25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **72440** | 25-pin to nine-pin D-sub female cable | $65.00 |



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# Zebra® ZD 410/TLP 2824 Plus
Thermal Printer

## Specifications

**Resolution:**
203 dpi (8 dpmm)

**Print Length:**
0.005 in to 39.0 in (0.125 mm to 991 mm)

**Print Width:**
0.005 in to 2.2 in (0.125 mm to 56 mm)

**Print Speed:**
2 in to 4 in per second (ips)

**Media:**
Width: 1.00 in to 2.36 in (25 mm to 60 mm)

**Interface:**
Centronics parallel (option), USB,
10/100 Ethernet (option), RS-232 DB-9F
(TLP-standard, ZD 410-optional)

**Label Length:**
Minimum: 0.38 in (9.7 mm)
1.0 in with optional cutter
Maximum 39 in (991 mm)
Inner Core: 1.0 in
Max roll diameter: 5 in
Sensing: gap, black line, notch
Type: roll-fed, fan fold, die cut or continuous with or without black mark, tag stock

**Bar Codes:**
Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14, UPC-A and UPC-E with EAN 2 or 5 digit extensions, PLessey, POSTNET, Standard 2 of 5, Industrial 2 of 5, Interleaved 2 of 5, LOGMARS, MSI, Codabar, and GS1 DataBar (formerly RSS), PDF417, MicroPDF417, Code 49, Maxicode, Codablock, Data Matrix, QR code, Aztec

**Power:**
100-240 VAC, 50-60 Hz, US power cord

**Operating Temperature:**
-40F to 105F (-40C to 40.5C)

**Dimensions:**
ZD 410: 8.5 x 4.5 x 6.0 in (220 x 115 x 151 mm)
TLP 2824 Plus: 5.3 x 9.5 x 7.0 in
(135 x 241 x 178 mm)

**Weight:**
ZD 410: 2.2 lb (1.0 kg)
TLP 2824 Plus: 3.5 lb (1.6 kg)

**Warranty:**
One-year limited warranty


*TLP 2824 Plus*


*ZD 410*

## Standard Features

- Print speeds of 4 in (102 mm) per second
- 203 dpi print resolution (8 dots/mm)
- Open ACCESSTM design for easy media loading
- Direct thermal (ZD 410) and thermal transfer (TLP) printing of barcodes, text and graphics
- Fully enclosed 5.0 in (127 mm) media compartment
- Double-walled ABS case construction
- EPL and ZPL® programming language, co-resident
- 32-bit RISC processor
- 8 MB SDRAM, 4 MB flash memory
- Zebra E3 print head energy control
- Auto-calibration of media
- Five resident expandable EPL2® fonts
- Auto-switching 100 V and 240 V power supply
- Linear and 2-D bar code symbologies
- Transmissive and reflective media sensing
- Head-up sensor
- Tear-off mode
- Certified Microsoft® Windows® drivers

## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **178855** | ZD 410 Printer, 203 dpi, direct thermal, USB, 120 VAC U.S. power cord | 2.2 lb | $395.00 |
| **112875** | TLP2824 Plus, 203 dpi, thermal transfer/direct, USB and Serial, 120 VAC U.S. power cord | 3.5 lb | $495.00 |

*Parallel and Ethernet models available by special request*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **178856** | RS-232 option card (ZD 410 only) | $25.00 |
| **178857** | 10 - 100 Ethernet option card (ZD 410 only) | $125.00 |
| **38941** | Cleaning pens for open print head printers, 12/box | $57.00 |
| **Label Stock/Ribbon** | | |
| **110346** | Direct thermal, (W x L x D)1.2 x .85 x 5 in with perf., 2,700/LPR | $8.25/roll |
| **110347** | Direct thermal, (W x L x D) 2.25 x 1.25 x 5 in with perf., 2,100/LPR | $12.80/roll |
| **40332** | Direct thermal, (W x L x D) 2.25 x 2 x 5 in with perf., 1,445/LPR | $14.25/roll |
| **110348** | Direct thermal, (W x L x D) 2.25 x 3 x 5 in with perf., 950/LPR | $13.50/roll |
| **110349** | Direct thermal, (W x L x D) 2.25 x 4 x 5 in with perf., 700/LPR | $10.80/roll |
| **65617** | Direct thermal, (W x L x D) 2.25 x 4.5 x 5 in with perf., 600/LPR | $14.60/roll |
| **126092** | Thermal paper, (W x D) 2 x 5 in, 6 rolls/case | $72.50case |
| **Cables** | | |
| **41276** | Serial cable, 6 ft (DB9 male to blunt end) (Rice Lake indicators) | $65.00 |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | $30.00 |
| **64794** | DB9 RS-232 cable DB9F to DB9M | $65.00 |





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# Zebra ZD Series

Label Printer



## Standard Features

- Print width 4.09 in
- Print speeds of 6 in per second
- 203 dpi
- USB 2.0 host
- Auto sense EPLZ or ZPL
- Tear bar

## Options

- RS-232 (DB-9F)
- Peeler mechanism
- Models available with Ethernet

## Specifications

**Paper Width:**
0.75 - 4.25 in

**Paper Thickness:**
0.003 - 0.0075 in

**Paper Diameter (OD):**
5 in

**Paper Roll Shaft:**
0.5 and 1.0 in standard

**Resolution:**
203 dpi/8 dots per mm

**Memory:**
512 MB flash, 128 MB SDRAM

**Print Width:**
4.09 in

**Bar Code Symbologies:**
Barcode ratios: 2:1 (non-rotated) and 3:1 Linear bar codes; Codabar, Code 11 (ZPL), Code 128, Code 39, Code 93, EAN-13, EAN-8, EAN-14 (ZPL), German Post Code (EPL), Industrial 2-of-5 (ZPL), Interleaved 2-of-5, Japanese Postnet (EPL), ISBT-128 (ZPL), Logmars (ZPL), MSI, Plessey, Postnet, GS1 DataBar (RSS-14), Standard 2-of-5 (ZPL), UCC/EAN-128 (EPL), UPC and EAN 2 or 5 digit extensions (ZPL), UPCA, UPC-A and UPC-E with EAN 2 or 5 digit extensions, UPC-E and GS1 DataBar (formerly RSS) Two-dimensional: Codablock (ZPL), Code 49 (ZPL), Data Matrix, MaxiCode, QR Code, MicroPDF417, Aztec For EPL and ZPL except where noted

**Maximum Print Length:**
3.90 in

**Maximum Print Speed:**
6.0 in per second

**Media Sensors:**
Full width, movable reflective, multi-position transmissive/gap sensor

**Ribbon Outside Diameter:**
2.6 in

**Ribbon Standard Length:**
984 ft (300 m)

**Ribbon Ratio:**
1:4 media to ribbon

**Ribbon Width:**
0.585 - 4.65 in

**Ribbon Core Inner Diameter:**
1 in

**Interface:**
USB 2.0 host
Ethernet TCP/IP
Optional: RS-232 serial (DB-9F)

**Operating Characteristics:**
Operating temperature: 40° F to 105° F (41° C to 4.4° C)
Storage temperature: -40° F to 140° F (-40° C to 60° C)
Operating humidity: 5% to 95% non-condensing
Storage humidity: 5% to 95% non-condensing

**Electrical:**
Auto-detectable (PFC compliant)

**Dimensions:**
ZD420d: (L x W x H) 8.69 x 6.98 x 5.93 in
ZD420t: (L x W x H) 10.5 x 8.0 x 7.5 in

**Warranty:**
One-year limited



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Direct Thermal** | | | |
| **192720** | ZD420d direct thermal printer, USB host | 10 lb | $595.00 |
| **192721** | ZD420d direct thermal printer, USB host, Ethernet LAN | 10 lb | $745.00 |
| **Thermal Transfer** | | | |
| **192722** | ZD420t thermal transfer printer, USB host | 10 lb | $695.00 |
| **192723** | ZD420t thermal transfer printer, USB host, Ethernet LAN | 10 lb | $845.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **192735** | Peeler option, ZD420t, front mount, field installable | $40.00 |
| **192737** | Peeler option, ZD420d, front mount, field installable | $40.00 |
| **192738** | RS-232 option, ZD420 field installable | $25.00 |
| **Label Stock/Ribbon** | | |
| **192736** | Ribbon core option, ZD420t, to accept 1 in ribbon cores (set of 2) | $25.00 |
| **192724** | 2000 wax ribbon (ZD420t) 2.52 in x 984 ft, 1 in core | $4.50 |
| **192725** | 2000 wax ribbon (ZD420t) 3.31 in x 984 ft, 1 in core | $6.00 |
| **192726** | 2000 wax ribbon (ZD420t) 4.23 in x 984 ft, 1 in core | $7.60 |
| **192727** | 5555 wax ribbon (ZD420t) 2.52 in x 984 ft, 1 in core | $12.00 |
| **192728** | 5555 wax ribbon (ZD420t) 3.31 in x 984 ft, 1 in core | $15.60 |
| **192729** | 5555 wax ribbon (ZD420t) 4.33 in x 984 ft, 1 in core | $20.50 |
| **192730** | 5095 resin ribbon (ZD420t) 2.52 in x 984 ft, 1 in core | $25.00 |
| **192731** | 5095 resin ribbon (ZD420t) 3.31 in x 984 ft, 1 in core | $32.50 |
| **192732** | 5095 resin ribbon (ZD420t) 4.33 in x 984 ft, 1 in core | $42.50 |





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# Zebra® QLn420

Mobile Printer



## Standard Features

- Apple iOS, Android, Windows Mobile and BlackBerry connectivity
- Direct thermal printing of barcodes, text and graphics
- CPCL, EPL™ and ZPL® programming languages
- 256 MB Flash memory supports downloadable programs, receipt formats, fonts and graphics (64 MB available for user storage)
- PowerPrecision+ 4900 mAh Li-Ion rechargeable battery
- Built-in battery charger
- RS-232 serial (DB-9F) and USB ports (both support strain relief)
- Belt clip for unobtrusive and convenient printing
- Black mark and gap media sensing using fixed center-position sensors
- Easy-to-use peel and present mode
- Label present sensor for issuing labels one at a time
- Tear bar for easy dispensing
- Center-loading media locking for variable roll widths
- "Clamshell" design for easy media loading
- Management: Mirror, SNMP, Web server, Profile Manager, AirWatch and Wavelink Avalanche®
- Large, easy-to-read LCD control panel (240 x 128 pixels)
- LCD can be customized using WML (text and icons)
- Printer alerts on the display, help menus
- Tolerance of multiple drops from 6' / 1.8 m to concrete
- IP43 dust- and water-resistance rating (IP54 with soft case)
- 400 MHz 32-bit ARM processor
- XML support
- Supports vertical and horizontal printing
- Printers can be used in any orientation
- QR barcode links to web-based help pages
- Zebra Print Touch simplifies Bluetooth pairing and launches web-based help pages with NFC-enabled devices
- Label odometer
- NTP (Network Time Protocol) support via WiFi or Ethernet

## APPROVALS

## Specifications

**Paper Width:**
4.40 in

**Paper Thickness:**
3.2 mil to 7.5 mil

**Paper Diameter (OD):**
2.6 in

**Paper Roll Shaft:**
0.75 in

**Resolution:**
203 dpi

**Memory:**
128 MB RAM / 256 MB Flash

**Print Width:**
4.10 in

**Bar Code Symbologies:**
Codabar (NW-7), Code 39, Code 93, Code 128, EAN-8, EAN-13, UCC/EAN 128, UPC-A, UPC-E, PDF417, Micro PDF417, QR Code, TLC39

**Maximum Print Length:**
32 in

**Maximum Print Speed:**
4 ips

**Media Sensors:**
Black mark, Gap

**Interface:**
RS-232 (DB-9F), USB, WiFi, Bluetooth®

**Operating Characteristics:**
Operating temperature: -4° F to 122° F
(-20° C to 50° C)

**Approvals:**
CE, UL, TUV, CSA

**Physical Characteristics:**
Width: 6.5 in
Height: 7.35 in
Depth: 3.25 in
Weight: 2.45 lb

**Warranty:**
One-year warranty



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **181232** | QLn420, 4 in direct thermal printer, 203 dpi, RS-232/USB/WiFi/Bluetooth® | 3 lb | $1,285.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **181233** | Power supply, 12-24 VDC | $44.00 |
| **181236** | Power supply, 15-60 VDC | $85.00 |
| **181234** | RAM Handi-Mount kit | $263.00 |
| **188144** | AC Adapter | $95.00 |
| **188145** | Receipt paper | $12.00 |
| **Label Stock/Ribbon** | | |
| **181238** | 4 in x 4 in direct thermal labels, with Gap. 36 rolls per case | $285.00 |
| **181239** | 4 in x 2 in direct thermal labels, with Gap. 36 rolls per case | $268.00 |
| **Cables** | | |
| **181235** | RS-232C, 6 ft | $36.00 |





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# DTL
Direct Thermal Label



*Not recommended for applications with exposure to sunlight, fluorescent lamps or heat.*

## Standard Features

- Requires a 633 nm visible light diode (VLD) scanning device for barcodes
- All-temperature permanent acrylic adhesive with short repositioning time, withstands some contact with alcohol, blood, grease and water

## Applications:

- Recommended for paper, corrugated containers, folding cartons with exterior varnish, glass, metal, PVC, polyesters, acetate, cellophane XT polymer, polystyrene, and some treated polypropylenes and polyethylenes

## Part Number/Price

| Part # | Width x Length | Roll Dia. | Case Qty | Labels Per Roll | Perf. | Price |
|---|---|---|---|---|---|---|
| **0.75 in Core Size** | | | | | | |
| **110463** | 2.00 x 3.00 in | 2 in | 36 | 125 | Yes | $107.00/case |
| **1 in Core Size** | | | | | | |
| **110346** | 1.20 x 0.85 in | 5 in | 6 | 2,710 | Yes | $8.25/roll |
| **35342** | 2.0 x 1.0 in | 4 in | 12 | 1,375 | Yes | $8.50/roll |
| **110350** | 2.00 x 1.00 in | 5 in | 16 | 2,600 | Yes | $15.05/roll |
| **37354** | 2.25 x 1.25 in | 2 in | 12 | 260 | Yes | $5.15/roll |
| **40332** | 2.25 x 2.00 in | 5 in | 12 | 1,445 | Yes | $14.25/roll |
| **110348** | 2.25 x 3.00 in | 5 in | 16 | 950 | Yes | $13.50/roll |
| **37352** | 2.25 x 4.00 in | 4 in | 12 | 380 | Yes | $8.50/roll |
| **110349** | 2.25 x 4.00 in | 5 in | 12 | 700 | Yes | $10.80/roll |
| **65617** | 2.25 x 4.50 in | 5 in | 16 | 600 | Yes | $14.60/roll |
| **110347** | 2.25 x 1.25 in | 5 in | 16 | 2,100 | Yes | $12.80/roll |
| **156746** | 3.00 x 2.00 in | 4 in | 8 | 800 | Yes | $9.95/roll |
| **110352** | 3.00 x 3.00 in | 5 in | 8 | 950 | Yes | $18.75/roll |
| **110351** | 3.50 x 1.00 in | 5 in | 8 | 2,600 | Yes | $22.00/roll |
| **110353** | 4.00 x 1.00 in | 5 in | 8 | 2,500 | Yes | $21.60/roll |
| **37350** | 4.00 x 1.50 in | 4 in | 12 | 960 | Yes | $27.45/roll |
| **110354** | 4.00 x 1.50 in | 5 in | 8 | 1,800 | Yes | $21.00/roll |
| **110345** | 4.00 x 2.00 in | 5 in | 8 | 1,400 | Yes | $19.20/roll |
| **110355** | 4.00 x 2.50 in | 5 in | 8 | 1,100 | Yes | $20.10/roll |
| **53251** | 4.00 x 3.00 in | 5 in | 12 | 930 | Yes | $23.35/roll |
| **37348** | 4.00 x 3.00 in | 2 in | 12 | 110 | Yes | $5.95/roll |
| **40331** | 4.00 x 4.00 in | 5 in | 8 | 745 | Yes | $23.35/roll |
| **110356** | 4.00 x 5.00 in | 5 in | 8 | 500 | Yes | $19.00/roll |
| **37345** | 4.00 x 6.00 in | 5 in | 8 | 450 | Yes | $20.00/roll |
| **3 in Core Size** | | | | | | |
| **21776** | 3.00 x 3.00 in | 8 in | 8 | 2,000 | Yes | $40.25/roll |
| **156745** | 3.00 x 5.00 in | 8 in | 8 | 1,200 | Yes | $28.00/roll |
| **91303** | 4.00 x 2.00 in | 8 in | 4 | 2,900 | Yes | $37.60/roll |
| **43937** | 4.00 x 4.00 in | 8 in | 4 | 1,500 | Yes | $37.85/roll |
| **25935** | 4.00 x 6.00 in | 8 in | 4 | 1,000 | * | $34.10/roll |
| **150921** | 4.00 x 6.00 in | 8 in | 4 | 1,000 | Yes | $30.50/roll |
| **20594** | 4.00 x 6.50 in | 8 in | 4 | 900 | Yes | $32.70/roll |
| **25975** | 4.25 x 2.50 in | 6 in | 6 | 1,090 | Yes | $25.65/roll |
| **20531** | 4.50 x 2.50 in | 8 in | 4 | 2,500 | * | $50.75/roll |
| **20597** | 3.5 x 3.25 in | 10 in | 10 | 3,100 | No | $70.00/roll |
| **Star Labels (1 in Core Size)** | | | | | | |
| **70598** | Black line, 3 x 1 in | 4 in | 10 | 1,600 | No | $22.00/roll |
| **70597** | Black line, 3 x 2 in | 4 in | 10 | 900 | No | $22.00/roll |
| **Medical** | | | | | | |
| **107134** | 1 x 11 in Datamax O-Neil SafeD-Band, wristband | 5 in | 4 | 350 | | $398.00/case |

** Perforated liner available upon request at no charge. Minimum order quantities may apply. NOTE: 8 and 10 in diameter rolls are not Allegro compatible*

*Custom label quote form online at www.ricelake.com/customlabel*



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## Standard Features

**DTL Plus/DTT**

- Top-coated white matte finish
- Requires a visible light (633 nm) scanning device for bar codes
- Withstands some contact with alcohol, blood, grease and water




*DTL-Plus*

*High-speed Thermal Transfer Label*



*DTT*

*Direct Thermal Tag Stock*

*Not recommended for applications with exposure to sunlight, fluorescent lamps or heat*

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **109340** | 3 in wide continuous tag stock, 7.2 mil, 3 in core, 8 in O.D., 480 ft wound out | $37.50 |
| **109298** | 4 in wide continuous tag stock, 7.2 mil, 3 in core, 8 in O.D., 480 ft wound out | $40.00 |
| **119829** | 3.5 x 5.5 in perforated, tow up fan folded stacks of 1,000, min. order of 1,000 | $0.05 each |

# DTL-SYN

## Standard Features

**DTL-SYN**

- Top-coated white matte finish
- Requires a visible light (633 nm) scanning device for bar codes
- All-temperature permanent acrylic adhesive with short repositioning time
- Withstands some contact with alcohol, blood, grease and water



*DTL-SYN*

*Direct Thermal Synthetic Label*

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **109448** | 3.25 x 3.25, 3 in core, 8 in O.D., 1,800 LPR, wound out, 208 roll minimum order | $90.00/roll |



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# TTL

Thermal Transfer Label




## Standard Features

- All-temperature permanent acrylic adhesive
- Withstands some contact with alcohol, oil, grease, blood and water

## Part Number/Price

| Part # | Width x Length | Roll Dia. | Case Qty | Labels Per Roll | Perf. | Price |
|---|---|---|---|---|---|---|
| **1 in Core Size** | | | | | | |
| **41978** | 4.00 x 3.00 in | 4 in | 8 | 500 | Yes | $11.50/roll |
| **110357** | 1.50 x 1.00 in | 5 in | 8 | 2,260 | Yes | $8.40/roll |
| **110362** | 2.00 x 1.00 in | 5 in | 8 | 2,260 | Yes | $10.45/roll |
| **110358** | 2.25 x .750 in | 5 in | 6 | 3,320 | Yes | $10.35/roll |
| **110360** | 2.25 x 3.00 in | 5 in | 6 | 930 | Yes | $11.05/roll |
| **110359** | 2.25 x 1.25 in | 5 in | 12 | 2,100 | Yes | $10.35/roll |
| **110365** | 4.00 x 2.00 in | 5 in | 6 | 1,370 | Yes | $18.00/roll |
| **53261** | 4.00 x 3.00 in | 5 in | 12 | 930 | Yes | $18.05/roll |
| **110366** | 4.00 x 4.00 in | 5 in | 12 | 700 | Yes | $18.00/roll |
| **160934** | 4.00 x 4.00 in | 5 in | 12 | 700 | No | $18.00/roll |
| **110367** | 4.00 x 6.00 in | 5 in | 12 | 475 | Yes | $16.50/roll |
| **3 in Core Size** | | | | | | |
| **21785** | 2.00 x 1.00 in | 8 in | 12 | 5,500 | * | $12.95/roll |
| **25945** | 2.00 x 1.00 in | 6 in | 12 | 2,550 | * | $9.00/roll |
| **66541** | 2.50 x 1.75 in | 8 in | 2 | 3,600 | | $80.00/roll |
| **44347** | 2.50 x 1.50 in | 8 in | 8 | 3,600 | No | $160.00/case |
| **20671** | 3.00 x 3.00 in | 8 in | 8 | 2,000 | * | $23.00/roll |
| **48408** | 3.50 x 1.00 in | 8 in | 4 | 5,500 | Yes | $86.55/case |
| **156741** | 4.00 x 4.00 in | 8 in | 4 | 1,500 | Yes | $18.30/roll |
| **21788** | 4.00 x 6.00 in | 8 in | 4 | 1,000 | * | $17.90/roll |
| **20573** | 4.00 x 6.50 in | 8 in | 4 | 900 | * | $19.20/roll |
| **156742** | 4.00 x 6.00 in | 8 in | 4 | 1,000 | Yes | $17.90/roll |
| **20536** | 4.50 x 2.50 in | 8 in | 4 | 2,500 | * | $34.55/roll |
| **Kit, 4 label rolls, 2 ribbons, 1 cleaning card** | | | | | | |
| **126629** | 4.00 x 4.00 in | 8 in | 1 | 1,500 | | $100.95/case |

** Perforated liner available upon request at no charge. Minimum order quantities may apply.*
*NOTE: 8 in diameter rolls are not Allegro compatible. Custom label quote form available online*

*NOTE: Not recommended for long-term exposure to water or other liquids*



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# Fantastock Thermal Transfer Label

## Standard Features

- Withstands some contact with alcohol, oil, grease, blood and water
- Suited for alphanumerics, bar codes and graphics
- Top-coated white matte finish

## Part Number/Price

| Part # | Width x Length | Roll Qty. | Case | Labels Per Roll | Price |
|---|---|---|---|---|---|
| **1 in Core Size** | | | | | |
| **35417** | Fantastock 4 x 2.88 in | 4 | 8 | 500 | $37.50/roll |
| **126114** | 3 x 1 in TTL Fantastock | 4 | 8 | 500 | $40.00/roll |
| **129377** | 4 x 2.5 in | 5 | 8 | 1,650 | $128.00/roll |
| **21794** | 4 x 2.875 in , 3 in core, 8 in O.D. minimum four rolls | 4 | 4 | | $155.00/roll |

*NOTE: 8 in diameter rolls are not Allegro compatible*

# TTT Standard Tag

## Standard Features

- Withstands some contact with alcohol, oil, grease, blood and water
- Suited for alphanumerics, bar codes and graphics
- Top-coated white matte finish



## Part Number/Price

| Part # | Width x Length | Roll Qty. | Case | Labels Per Roll/ft. | Perf. | Price |
|---|---|---|---|---|---|---|
| **3 in Core Size** | | | | | | |
| **89190** | 4 in wide continuous 7.5 pt | 8 in | 4 | 4,000 ft | No | $38.50/roll |
| **107621** | 3.25 wide x continuous 7.5 pt, 11 in O.D., 50 roll minimum order | — | — | 1,010 ft | No | $28.40/roll |
| **124757** | 4.5 x 2.5 in, with sensing notch 20 roll minimum order | — | 4 | 2,300 | Yes | $51.50/roll |
| **164870** | 4 x 6 in, stack of 1,000 | — | | 1,000 | | $28.50/stack |

*NOTE: Not recommended for long-term exposure to water or other liquids*

# SDR Super Durable Ribbon

## Standard Features

- 4.6 micron, thermal transfer resin-based ribbon
- Smudge and smear proof
- 1,182 ft (360.3 m) long (one ribbon prints two rolls of 8 in [203.2 mm] O.D. label or tag stock)
- Avoid exposure to heat, humidity and sunlight during storage



## Part Number/Price

| Part # | Width x Length | Color | Case Qty | Datamax Comp | Zebra/ Elton Desktop Comp | Zebra Ind. Comp. | Price |
|---|---|---|---|---|---|---|---|
| **1/2 in Core Size** Not for all 2" wide printers | | | | | | | |
| **37366** | 2.50 in x 242 ft | No | 12 | No | 800009-002 | No | $5.70/roll |
| **126115** | 3.27 in x 243 ft | No | 36 | 221967 | No | No | $7.95/roll |
| **37368** | 4.30 in x 242 ft | No | 12 | No | 800009-004 | No | $9.35/roll |
| **92633** | 4.33 in x 360 ft | No | 24 | 226757 | No | No | $15.00/roll |
| **1 in Core Size** | | | | | | | |
| **21772** | 4.00 in x 1182 ft | Yes | 24 | 221716 | No | No | $1,015.00/case |
| **52343** | 4.30 in x 1476 ft | No | 6 | No | 5095BK11045 | Yes | $84.00/roll |
| **129378** | 4.30 in x 984 ft | — | 24 | 296639 | — | — | $35.15/roll |

*Scannable colors include: Blue, Red, White, Gold*





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# MaxWax™ GPR

General-Purpose Ribbon



## Standard Features

- 4.6 micron thermal transfer wax/resin ribbon
- Smudge and scratch resistant
- 1,182 ft (360.3 m) long (one ribbon prints two rolls of 8 in (203.2 mm) O.D. label or tag stock)
- Avoid exposure to heat, humidity and sunlight during storage

## Part Number/Price

| Part # | Width x Length | Color | GoDex Comp. | Datamax Comp. | Zebra/Eltron Comp. | Zebra Industrial Comp. | Case Qty | Price |
|---|---|---|---|---|---|---|---|---|
| **1/2 in Core Size** Not for all 2 inch wide printers | | | | | | | | |
| **81212*** | 2.50 in x 244 ft | No | | Z28G-PRM064074 | 8000130-002 | No | 12 | $6.65/roll |
| **37362** | 2.50 in x 298 ft | No | | 226351 | 800008-002 | No | 36 | $5.70/roll |
| **35477** | 3.50 in x 360 ft | No | | 226455 | No | Yes | 12 | $8.25/roll |
| **37364** | 4.30 in x 298 ft | No | | 226357 | 800008-004 | No | 36 | $10.40/roll |
| **75895*** | 4.30 in x 244 ft | No | | Z28G-PRM110074 | 800130-104 | No | 12 | $9.75/roll |
| **35478** | 4.33 in x 360 ft | No | | 226457 | No | Yes | 12 | $10.65/roll |
| **53265** | 1.30 in x 298 ft | No | | No | 800008-001 | No | 36 | $2.60/roll |
| **1 in Core Size** | | | | | | | | |
| **178965** | 4.30 in x 984 ft | No | GR4010 | | | | 6 | $25.00/roll |
| **110537** | 2.50 in x 984 ft | No | | | ZEBGPR-MO64300 | | 24 | $4.50/roll |
| **34054** | 3.00 in x 1181 ft | Yes | | 226102 | No | No | 6 | $17.25/roll |
| **40787** | 4.30 in x 1189 ft | No | | No | 800010-004 | Yes | 6 | $28.00/roll |
| **110536** | 4.30 in x 984 ft | No | | 296143 | NO | No | 24 | $13.50/roll |
| **34058** | 4.50 in x 1182 ft | Yes | | 226100 | No | No | 6 | $27.50/roll |
| **42474** | 6.00 in x 1476 ft | Yes | | 224108 | No | No | 24 | $42.90/roll |
| **GPR Plus (for use with Kimdura Stock)** | | | | | | | | |
| **53611**** | 1.57 in x 1476 ft | No | | No | No | 5095BK04045 | 6 | $28.10/roll |
| **20538** | 2.0 in x 1182 ft | No | | 222103 | No | No | 36 | $8.40/roll |
| **20539** | 3.00 in x 1182 ft | No | | 222102 | No | No | 6 | $105.25/case |
| **34056** | 4.00 in x 1182 ft | No | | 222116 | No | No | 24 | $25.25/roll |

*Prices for black ribbon only.*

*Color ribbon—contact RLWS sales for prices and availability.*

*Scannable colors include: Silver, gold, green, blue, brown, purple, maroon, midnight blue, fuchsia, kelly green, royal blue, lavender*

*Additional colors available: Red, orange, yellow, white, pink, pumpkin*

** Ribbon for TLP2844*

*** Resin Performance*



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## Standard Features

**TicketPress:**

- Cartridge-type
- Ribbon life approximately 3 million characters

**SP2200 and SP2000:**

- Cartridge-type
- Ribbon life is approximately 1 million standard characters

**IDS-150A, IDS-152, and IDS-160:**

- Inked spools

**TM-U295, TM-U200, TM-300:**

- Cassette-type
- TM-U295: Ribbon life is approx. 1.5 million standard characters
- TM-U200 and TM-300: Ribbon life is approx. 4 million characters (continuous printing)

**Citizen® CBM-750 and Citizen® iDP-3111:**

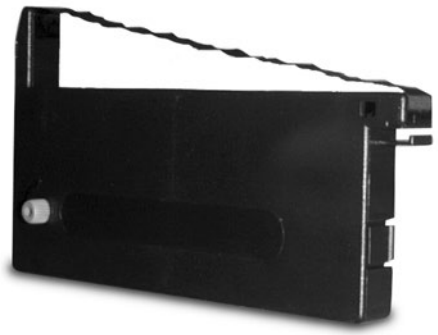
- Cassette-type
- CBM-750: Ribbon life is approx. 4 million lines (continuous printing) iDP-3111: Ribbon life is approx. 1 million lines (continuous printing)

**Okidata 184 Turbo and 320:**

- Self-inking
- Ribbon life is approximately 3 million characters

**DH4000 and Toledo 8806A, SP298, SP2320 and SP2520, LC-7211, SP349 and SP300, DP8340:**

- Cassette-type



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Line Printer** | | |
| **20664** | Okidata 184 Turbo and 320 Ribbon cartridge | $8.00 |
| **Tape Printer** | | |
| **41902** | Citizen CBM-750 Red/black ribbon cartridge | $10.00 |
| **20428** | DH4000 and Toledo 8806A and Fairbanks 50-3925 Purple ribbon cartridge (no blue guide) | $20.00 |
| **31296** | Epson TM-U200/TM-U220 and TM-300 Purple ink cartridge (ERC 30, 34) | $12.00 |
| **66499** | Epson TM-U200/TM-U220 and TM-300 Red/black ink cartridge | $12.00 |
| **20447** | IDS-160 Purple ink ribbon | $10.00 |
| **20447** | Star® DP8340 Purple ribbon cartridge | $10.00 |
| **103728** | Star SP700 Black ribbon cartridge | $12.00 |
| **Tape Kiosk Printer** | | |
| **69920** | Star SP349 and SP312 Purple ribbon cartridge | $13.00 |
| **Ticket Printer** | | |
| **29583** | Epson® TM-U295 Black ink cartridge | $12.00 |
| **29584** | Epson TM-U295 Purple ink cartridge (ERC 27) | $12.00 |
| **68525** | Epson TM-U590 Purple ink cartridge (ERC-31) | $12.00 |
| **20440** | IDS-150A and IDS-152 Purple ink ribbon | $25.00 |
| **20308** | SP2200 and SP2000 Black ink cartridge | $24.00 |
| **69921** | Star SP298, SP2320 and SP2520 Purple ribbon cartridge | $12.00 |
| **128031** | TicketPress™ Black ribbon cartridge | $21.00 |
| **132405** | TicketPress™ Purple ribbon cartridge | $21.00 |

*Don't see a ribbon or paper roll you need? Send us the manufacturer name and model of the printer and we will provide you a quotation.*





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# Tape Printer Paper Supplies



## Standard Features

**IDS-150A, IDS-152, IDS-160, TM-U200, TM-300, and Citizen® CBM-750:**

- One-ply paper roll (W x L): 3 in x 150 ft (76.2 mm x 45.7 m)
- Two-ply paper roll (W x L): 3 in x 90 ft (76.2 mm x 27.4 m)

**Citizen® iDP-3111:**

- One-ply paper roll (W): 2.25 in (57.1 mm)

**Star®:**

- One- and two-ply paper roll (W x L): 3 in x 3 ft (76.2 mm x 0.9 m)
- One-ply thermal paper roll (W x L): 3.125 in x 3.25 ft (76.2 mm x 0.99 m), 8 in roll dia.

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **IDS-150A, IDS-152, IDS-160, TM-U220, TM-300, and Citizen CBM-750** | | |
| **69916** | One-ply Bond, (W x L) 3 in x 150 ft (76.2 mm x 45.7 m,) 3 in dia., 1/2 in core | $5.00/roll |
| **69915** | Two-ply Bond, (W x L) 3 in x 90 ft (76.2 mm x 27.4 m), 3 in dia, 1/2 in core white/ canary yellow | $7.00/roll |
| **Citizen iDP-3111** | | |
| **42870** | One-ply Bond, (W x L) 2.25 in x 150 ft (57.1 mm), 7/16 in core 2 7/8 in outer diameter | $5.00/roll |
| **Star** | | |
| **69916** | One-ply Bond, (W x L) 3 in x 150 ft (76.2 mm x 45.7 m), 3 in dia., 1/2 in core | $5.00/roll |
| **69915** | Two-ply Bond, (W x L) 3 in x 90 ft (76.2 mm x 27.4 m), 3 in dia, 1/2 in core white/ canary yellow | $7.00/roll |
| **69917** | One-ply thermal, (W) 3.125 in (75.44 mm, 2.97 in dia.) 7/16 core 230 ft | $5.00/roll |
| **70083** | One-ply thermal, (W) 3.23 in (82 mm, 3 in dia.), 8 in roll dia. (2,020 ft long) 1 1/2 core | $35.00/roll |
| **71214** | One-ply plain paper, (W) 3.25 in (82.5 mm, 3 in dia.), 50 rolls/case, 3/8 core | $95.00/case |
| **105711** | Two-ply plain paper, (W) 3.25 in, 50/case, 3/8 core 3 in outer diameter | $150.00/case |
| **105712** | Three-ply plain paper, (W) 3 in, 50 per case, 3/8 core, 3 in outer diameter (white, canary, pink) | $160.00/case |
| **102950** | One-ply thermal, (W) 4.4 in, 6 in outer diameter, 1 in core, 930 ft roll | $42.50/roll |
| **20448** | One-ply Bond, (W x L) 4.5 in x 165 ft, 7/16 core, 3 in outer diameter | $8.00/roll |
| **42672** | Two-ply, (W x L) 4.5 in x 95 ft, 3 in outer diameter | $7.00/roll |
| **70683** | One-ply Bond, (W x D) 4.5 x 3 in, sprocket feed, 140 ft | $13.00/roll |
| **107618** | One-ply thermal, (W) 10 mm (4.4 in, 4 in) outer diameter, 500 ft | $10.50/roll |
| **102957** | One-ply thermal, (W) 58 mm (2.28 in, 2 3/4 in) outer diameter, 1/2 in core | $3.50/roll |
| **Epson** | | |
| **105445** | One-ply thermal, (W) 80 mm (3.1 in, 6 in) outer diameter, 710 ft/roll | $25.00/roll |
| **105446** | One-ply thermal, (W) 80 mm (3.1 in, 8 in) outer diameter, 1,268 ft/roll | $27.00/roll |
| **75947** | One-ply thermal, (W x L) 2.25 in x 85 ft, 1 7/8 outer diameter, Mobilink, 1/2 in core | $6.00/roll |
| **126092** | One-ply receipt (W x L) 2 in x 574 ft, 1 in core , 5 in O.D., 6 rolls/case | $72.50/case |
| **Kiosk Printers** | | |
| **50426** | One-ply, (W x D) 3.25 in x 6 in, 7/16 core 950 ft | $24.00/roll |
| **104940** | One-ply thermal, (W x D) 112 mm x 5 in, 1 in core, 625 ft | $24.00/roll |
| **Zebra Mobile** | | |
| **105566** | One-ply thermal, 2 in continuous 79 ft rolls, 2.5 in OD (36 per case) | $66.25/case |
| **105565** | One-ply thermal, 4 in continuous 79 ft rolls, 2.5 in OD (36 per case) | $121.00/case |
| **Misc** | | |
| **66653** | One-ply thermal, (W x L) 80 mm (3.1 in x 455 ft, 5 in diameter for Swecoin, Star TUP 900) | $18.00/roll |
| **76076** | One-ply thermal, (W) 60 mm (2 3/8 in), 100 mm) outer diameter 40 mm core, wound out | $13.00/roll |
| **73134** | One-ply Bond, (W) 1 3/4 in x 1-7/8 outer diameter, 7/16 core | $3.50/roll |
| **47341** | One-ply thermal, (W x L) 64 mm x 50 m, 1 9/16 in core | $5.00/roll |
| **110463** | (W x L) 2 x 3 in label, RW 220 or RW 420, 125 labels/roll,2 in OD, 36 per case | $107.00/case |
| **165865** | Thermal paper, (W x D) 4 x 5 in, 6 rolls/case | $110.00/case |
| **166916** | Thermal paper, (W x D) 8.5 in x 565 ft, continuous, 4 rolls/case | $200.00/case |



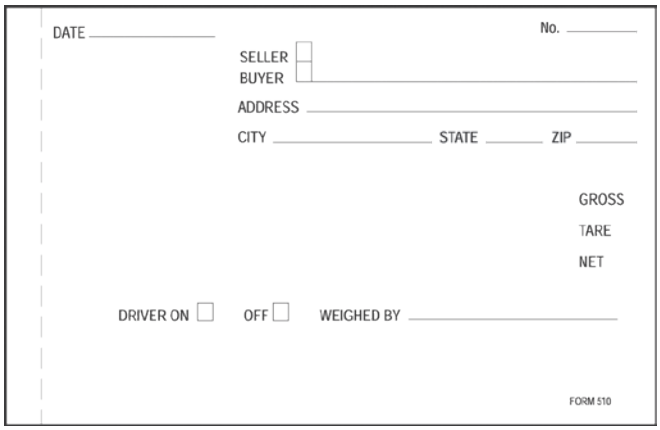
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## Standard Features

**Hecon® Printers, EL522 & EL516 - 20266**

- Carbon triplicate interleaved
- Size (W x L): 4.25 in x 7.875 in (127 mm x 200 mm)
- Order quantity: 500 per package

*20266*

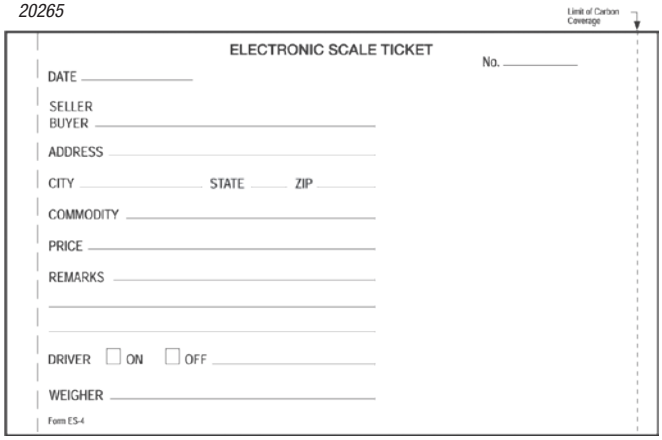



## Standard Features

**SP2200, SP2000 - 20265**

- Carbon triplicate interleaved, perforated and glued on one end
- Size (W x L): 5.5 in x 9 in (139.7 mm x 228.6 mm)
- Order quantity: 500 per package

*20265*




## Standard Features

**Rice Lake Scales - 71630 or 105182**

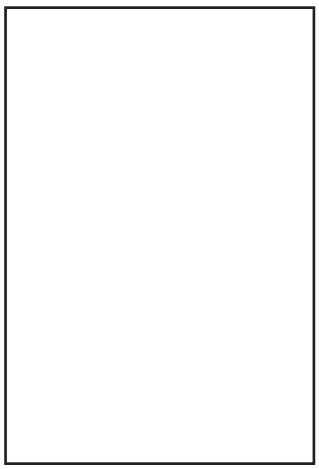
- Carbonless duplicate or triplicate
- Size (W x L): 4.25 in x 7 in (107 mm x 177.8 mm) attached at 4.25 side
- Order quantity: 500 per package
- Custom (Duplicate): Add company name (min. order two packs)
- Custom (Triplicate): Add company name (min. order two packs)




## Standard Features

**Blank Scale Ticket - 22263**

- 3-part carbonless
- White, canary yellow and pink
- Size (W x L): 4.25 in x 5.5 in (108 mm x 140 mm)
- Attached at 4.25 edge
- Custom: Add company name (min. order of 1,000)



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **20266** | Hecon Printers, EL522 and EL516, 500/pack | $92.00 |
| **20265** | SP2200, SP2000, 500/pack | $95.00 |
| **71630** | Rice Lake ticket, two part, 500/pack | $50.00 |
| **105182** | Rice Lake ticket, three part, 500/pack white, canary yellow, pink | $72.00 |
| **22263** | Blank scale ticket, each | $0.22 each |





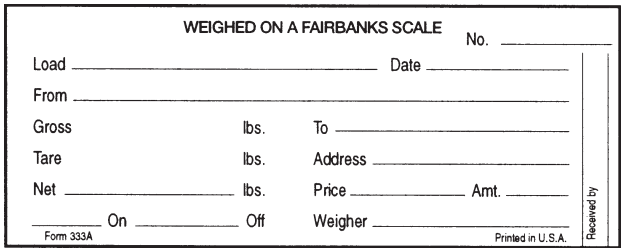
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# Mechanical Scale Tickets

## Standard Features

**Fairbanks™ Scales - 20260**

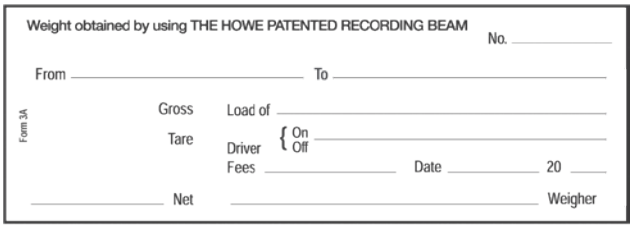
- Carbonless triplicate with 2 in (50.8 mm) tear-off flap
- Size (W x L): 4.75 in x 1.875 in (120.7 mm x 47.6 mm)
- Order quantity: 500 per package




## Standard Features

**Howe™ Scales - 20261**

- Carbon triplicate with 2 in (50.8 mm) tear-off flap
- Size (W x L): 5.5 in x 1.75 in (139.7 mm x 44.5 mm)
- Order quantity: 500 per package




## Create Your Own Custom Ticket

## Standard Features

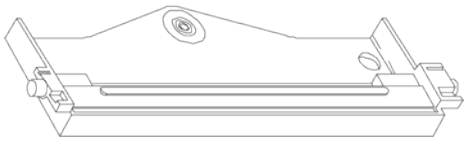
- Send us a copy of the existing custom format or drawing of a completely new one. Please specify number of carbon copies, dimensions, colors and text. Minimum order quantity may apply.
- Download form at ricelake.com/customlabel

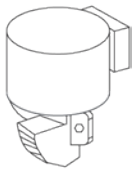
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **20260** | Fairbanks scales, 500/pack | $65.00 |
| **20261** | Howe scales, 500/pack | $65.00 |



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## Part Number/Price

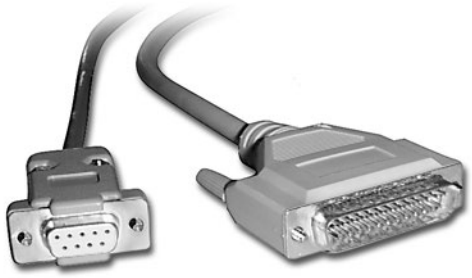
| Part # | Description | Price |
|---|---|---|
| **Label Printers** | | |
| **53034** | Eltron/Zebra® LP/TLP2622/2722 (2 in) | $325.00 |
| **78998** | Eltron/Zebra® LP/TLP-2824 (2 in) | $165.00 |
| **78999** | Eltron/Zebra® LP-2844 (4 in) | $195.00 |
| **79000** | Eltron/Zebra® TLP-2844 (4 in) | $210.00 |
| **95375** | Eltron/Zebra® Z4000, S4M (203 dpi) | $695.00 |
| **111091** | Eltron/Zebra® Zebra GK,(203 dpi) | $200.00 |
| **107532** | GoDex DT2X print head | $110.00 |
| **150743** | GoDex DT4xW print head | $195.00 |
| **150746** | GoDex G500 print head | $195.00 |
| **53939** | Honeywell I-4208 I-4210, I-4212 (203 dpi) | $450.00 |
| **66748** | Honeywell I-4308 (300 dpi) | $550.00 |
| **67552** | Honeywell W-6208 (203 dpi) prior to Dec, 1999, 6 in | $695.00 |
| **82859** | Honeywell W-6208 (203 dpi), DPO 20-2164-01, 1,999 to to current, 6 in | $695.00 |
| **67551** | Honeywell W-6308 (300 dpi), 6 in | $995.00 |
| **103369** | Honeywell M-4210, 203 dpi | $495.00 |
| **96957** | Honeywell H-4212, 203 dpi | $450.00 |
| **72473** | Honeywell Ex2, E-4203 (203 dpi) | $200.00 |
| **112517** | Honeywell E4205 (e) (203 dpi) | $125.00 |
| **103368** | Honeywell M4206, (203 dpi) | $495.00 |
| **118183** | Honeywell Print engine A-class model 4212, 203 dpi | $450.00 |
| **Tape Printers** | | |
| **118730** | Epson TM-U220 | $125.00 |
| **Ticket Printers** | | |
| **29535** | Epson® TM-290/TM-U295 | $300.00 |
| **116659** | Epson® TM-U590 | $300.00 |
| **68726** | Epson® TM-U590 print mechanism | $845.00 |
| **35347** | Rice Lake Weighing Systems SP2200 | $300.00 |
| **72513** | Star® SP298 | $125.00 |





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# Printer Cables



## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Interface Cables for TicketPress, SP-2200, TM-U295, TM-U590 and Star® Printers** | | |
| **15547** | Blunt end, 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **15548** | 25-pin D-sub male to 25-pin D-sub male 20 mA serial interface cable (SP2200 only) | $65.00 |
| **15568** | 25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **Consult** | Custom 20 mA/RS-232 serial interface cable | $95.00 |
| **Interface Cables for I-Class** | | |
| **15547** | Blunt end, 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **Consult** | Custom RS-232 interface cable | $95.00 |
| **Interface Cables for Desktops, GoDEX Models, Zebra, E-4203 and M-4206** | | |
| **41276** | DB9 male RS-232 cable to blunt end | $65.00 |
| **Straight Cable** | | |
| **70056** | DB9 male to DB9 female | $35.00 |
| **50749** | DB9 female to DB9 female | $55.00 |
| **41279** | DB25 male to DB9 male | $65.00 |
| **72440** | DB25 male to DB9 female | $65.00 |
| **Null Modem Cable** | | |
| **66535** | DB9F to DB9 female, Null modem | $45.00 |
| **64794** | DB9 male to DB9 female | $65.00 |
| **USB Cable** | | |
| **79074** | USB-A (male) to USB-B (male) cable, 6 ft | $30.00 |
| **153603** | USB to nine-pin Male RS-232 adapter | $91.00 |
| **Ethernet Cable/RJ45** | | |
| **72697** | RJ45 to RJ45, 7 ft | $35.00 |
| **78860** | RJ45 to RJ45, cross over 7 ft | $35.00 |
| **75594** | RJ45 to nine-pin female | $65.00 |
| **Misc. Cables and Adapters** | | |
| **22436** | Blunt end, nine-pin D-sub female | $65.00 |
| **130213** | Blunt end DB25 male | $55.00 |
| **165698** | Female to male gender changer | $10.50 |
| **119064** | Slimline, Null modem gender changer, DB9 female/female | $10.50 |
| **130789** | Null modem DB9 M/F | $12.00 |

*Blunt-end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus® 355, IQ plus® 390-DC, IQ plus® 510, IQ plus® 590-DC, IQ plus® 710, IQ plus® 800, and IQ plus® 810, 520 and 920i®*

*Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5 ft (1.5 m).*



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## Standard Features

- Tough, flexible transparent vinyl, constructed with heavy-duty stitching
- Loose fit allows for operation of switches or controls through the dust cover
- Available for most types of scale equipment



Protect your electronic scales, weight indicators and printers with a scale veil. Reduce costly repairs and down time due to moisture penetrating through instrument enclosures during cleanup or operation.

## Part Number/Price

| Model | Part # | Price |
|---|---|---|
| **Epson** | | |
| TM290/295 | **29582** | $55.00 |
| TM-U200 TM-U220 | **35666** | $60.00 |
| TM-U590 | **111840** | $65.00 |
| **Okidata** | | |
| Okidata 184 Turbo Printer | **21208** | $65.00 |
| Okidata 320/390 | **21226** | $65.00 |

*Custom veils and specials available; consult factory.*





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# Remote Displays / Scoreboards

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*Four-inch, Six-inch, Four-inch Stop/Go Remote Display*

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*Eight, Twelve Character Messaging Remote Displays*

**LASERLT-60 AND LASERLT-100** ..... **996**
*Two-inch, Four-inch Remote Display or Weight Indicator*

**RD-232** ..... **998**
*0.8-inch LED Remote Display*

**RD-300** ..... **1000**
*1.0-inch LCD Remote Display*





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# LaserLight2™

Four-inch, Six-inch, Four-inch Stop/Go Remote Display




## Standard Features

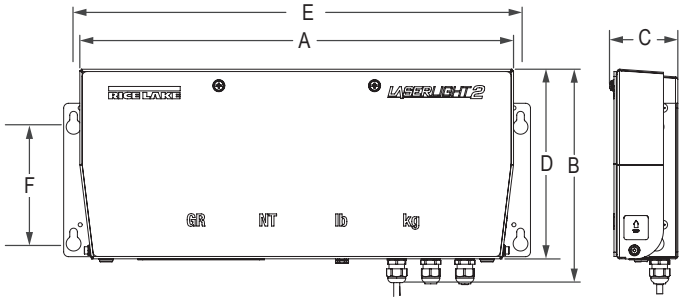
- Available with a 4-in (100 mm) or 6-in (150 mm) display
- Six high-intensity red digits (double-row discrete LED)
- Time and date displayed when scale is empty
- Auto Learn mode of communication protocols
- Hold displayed weight (demand input)
- Software selectable standstill mode for no updates while in motion
- Durable weathertight IP66 enclosure
- Adjustable daylight/night intensity
- Non-glare contrast filtered lens
- Mirror (reverse image) function
- RS-232, 20 mA and RS-485 communications
- Auto sensing 115/230 VAC power supply
- PEMs for VESA flat-wall mount or side-mounting flange
- Polyethylene breather vent inhibits internal moisture buildup
- Red, green and arrow lights in stop/go version

**APPROVALS***

c UL us LISTED

**See Specific Part Numbers*

| Dimensions | | | |
|---|---|---|---|
| **22-inch Enclosure (Four-inch Model)** | | | |
| A | 22.28 in (565 mm) | D | 9.80 in (250 mm) |
| B | 10.96 in (280 mm) | E | 23.00 in (584 mm) |
| C | 3.28 in (85 mm) | F | 6.00 in (152 mm) 3/8 in bolt |
| **31-inch Enclosure (Six-inch and Stop/Go Models)** | | | |
| A | 30.63 in (780 mm) | D | 12.77 in (325 mm) |
| B | 13.94 in (355 mm) | E | 31.00 in (787 mm) |
| C | 3.73 in (95 mm) | F | 7.75 in (197 mm) 3/8 in bolt |




## Specifications

**Display:**
6-digit, 7-segment discrete oval red LED lamps
Contrast enhanced optical filtering lens
1- or 2-place decimal or comma indication
4 annunciators for GR, NT, lb, kg
4-inch red, green ball/arrow in Stop/Go model

**Maximum Viewing Distance:**
4 in: 250 ft (75 m)
6 in: 300 ft (100 m)

**Input Interface:**
RS-232, RS-485, 20 mA current loop (active or passive, switch selectable)

**Output Interface:**
Independently configurable echo out port or RS-232

**Input Data Format:**
Baud Rate: 1200, 2400, 4800, 9600 and 19200 self-learning or software selectable

**Character Format:**
7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits, self-learning or software selectable

**Update:**
Continuous or out-of-motion only; software selectable

**Power Consumption:**
4 in: 21 watt
6 in: 27 watt

**Time:**
Software enable/disable, 12- or 24-hour format

**Date:**
Software enable/disable, US or ISO format

**Rating/Material:**
IP66 weather tight, mild steel, powder coated

**Dimensions:**
4-inch (L x H): 22.28 in x 9.8 in
6-inch (L x H): 30.63 in x 12.77 in
Stop/Go (L x H): 30.63 in x 12.77 in
(flanges add 2.00 in width)

**Weight:**
4 in: 20 lb (9 kg)
6 in: 25 lb (11 kg)

**Operating Temperature Range:**
-40°F to 120°F (-40°C to 49°C)

**Warranty:**
Two-year limited warranty

**Approvals:**
UL/cUL on specific part numbers



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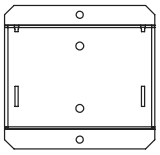
## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Flange Mounted (included)** | | | |
| **167091** | LaserLight2 remote display 4-inch (100 mm) includes PN 175305 | 20 lb | $1,600.00 |
| **179521*** | LaserLight2 remote display 4-inch (100 mm) marked UL/cUL includes PN 175305 | 20 lb | $1,800.00 |
| **175286** | LaserLight2 remote display 4-inch (100 mm) stainless steel includes PN 179910 | 20 lb | $1,950.00 |
| **167092** | LaserLight2 remote display 6-inch (150 mm) includes PN 175306 | 25 lb | $2,100.00 |
| **179523*** | LaserLight2 remote display 6-inch (150 mm) marked UL/cUL includes PN 175306 | 25 lb | $2,300.00 |
| **167093** | LaserLight2 remote display Stop/Go 4-inch (100 mm) includes PN 175306 | 25 lb | $2,100.00 |
| **179525*** | LaserLight2 remote display Stop/Go 4-inch (100 mm) marked UL/cUL includes PN 175306 | 25 lb | $2,300.00 |
| **187120** | LaserLight2 remote display Stop/Go 4-inch (100 mm) stainless steel includes PN 187124 | 25 lb | $2,500.00 |
| **VESA Mounted (included)** | | | |
| **175860** | LaserLight2 remote display 4-inch (100 mm) includes PN 175213 | 20 lb | $1,650.00 |
| **179522*** | LaserLight2 remote display 4-inch (100 mm) marked UL/cUL includes PN 175213 | 20 lb | $1,850.00 |
| **175861** | LaserLight2 remote display 6-inch (150 mm) includes PN 175213 | 25 lb | $2,150.00 |
| **179524*** | LaserLight2 remote display 6-inch (150 mm) marked UL/cUL includes PN 175213 | 25 lb | $2,350.00 |
| **175862** | LaserLight2 remote display Stop/Go 4-inch (100 mm) includes PN 175213 | 25 lb | $2,150.00 |
| **179526*** | LaserLight2 remote display Stop/Go 4-inch (100 mm) marked UL/cUL includes PN 175213 | 25 lb | $2,350.00 |

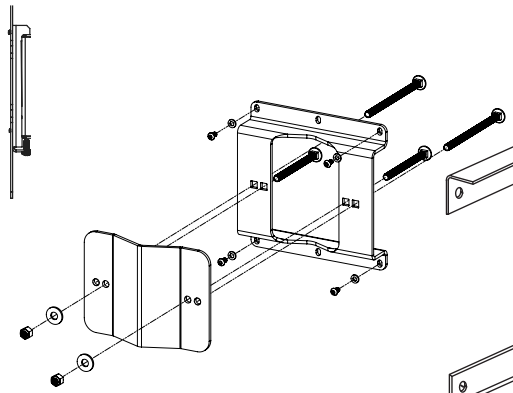
**UL/cUL on specific models*

## Options/Accessories

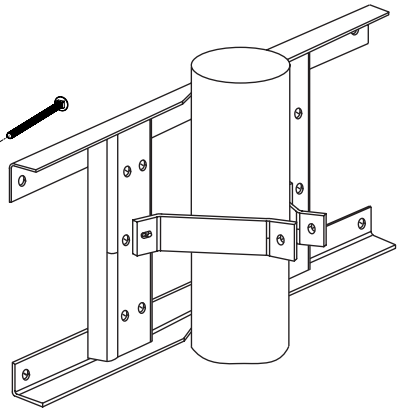
| Part # | Description | Price |
|---|---|---|
| **175052** | Wireless interface, pair of ConnexLink Radios and mount | $795.00 |
| **Consult** | LaserLight2 green display (modified LED boards) | Consult |
| **175213** | Mount bracket, VESA flat-wall option (included with VESA mounted remote) | $80.00 |
| **175305** | Mount bracket, 4-inch flange option (included with flange mounted remote) | $25.00 |
| **175306** | Mount bracket, 6-inch flange option (included with flange mounted remote) | $25.00 |
| **179910** | Mount bracket, 4-inch stainless steel flange option (included with flange mounted stainless steel remote) | $29.00 |
| **187124** | Mount bracket, 6-inch stainless steel flange option (included with flange mounted stainless steel remote) | $40.00 |
| **75856** | Pole mount kit, 4-inch flange option (24-inch wide frame for 4-8 inch dia. pole) | $225.00 |
| **77775** | Pole mount kit, 6-inch and 4-inch stop/go flange option (32-inch wide frame for 4-8 inch dia. pole) | $225.00 |
| **177865** | Pole mount kit, VESA flat-wall option mount for 2-6 inch pole | $75.00 |
| **178790** | Offset kit (right or left flag mount) used with universal pole mount (requires PN 177865) | $60.00 |
| **181224** | Visor for 22 inch enclosure (not required for weather protection) | $150.00 |
| **181801** | Visor for 31 inch enclosure (not required for weather protection) | $150.00 |



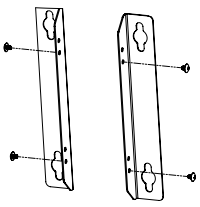
*VESA flat-wall mount*
*PN 175213*



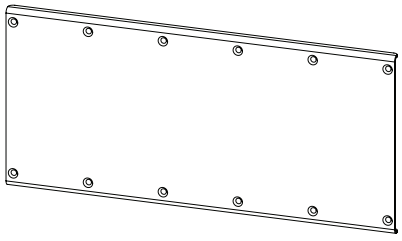
*VESA pole mount kit*
*PN 177865*



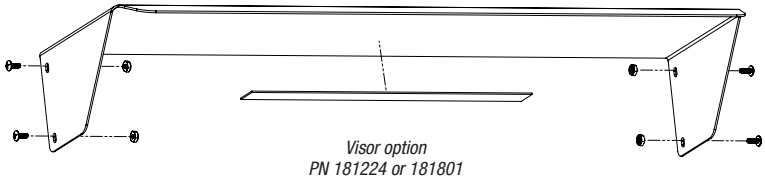
*Flange pole mount kit*
*PN 75856 or 77775*



*Flange mount*
*PN 175305, 175306, 179910, 187124*



*Offset kit*
*PN 178790*



*Visor option*
*PN 181224 or 181801*


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# LaserLight® M-Series

Eight, Twelve Character Messaging Remote Displays




## Standard Features

- Available with 8- and 12-character display
- 2.75- in (70 mm) high-intensity red character (discrete LED)
- Four annunciators for gross, net, lb, kg
- Auto Learn mode of communication protocols
- Display messages scroll, slide and flash
- Hold displayed weight (demand input)
- Software selectable standstill mode, no updates while in motion
- Software configuration menu
- Durable weather-tight enclosure
- Adjustable daylight/night intensity
- Non-glare contrast filtered lens
- Mirror (reverse image) function
- RS-232, 20mA and RS-485 communications
- Auto sensing 115/230 VAC power supply
- Porous polyethylene breather vent

**APPROVALS***

c UL us LISTED

**See Specific Part Numbers*

| Dimensions | | | |
|---|---|---|---|
| **3M8 Enclosure** | | | |
| A | 23.00 in (584 mm) | E | 3.25 in (83 mm) |
| B | 22.00 in (559 mm) | F | 6.25 in (159 mm) |
| C | 4x 0.38 in (10 mm) | G | 5.00 in (127 mm) |
| D | 24.00 in (610 mm) | | |
| **3M12 Enclosure** | | | |
| A | 31.00 in (787 mm) | E | 3.25 in (83 mm) |
| B | 30.00 in (762 mm) | F | 6.25 in (159 mm) |
| C | 4x 0.38 in (10 mm) | G | 5.00 in (127 mm) |
| D | 32.00 in (813 mm) | | |

## Specifications

**Display:**
2.75-in (70 mm) digit; 5 x 7 dot matrix using discrete oval precision optical performance red LED lamps
Contrast enhanced optical filtering lens
1- or 2-place decimal or comma indication
4 annunciators for GR, NT, lb, kg

**Input Interface:**
RS-232, RS-485, 20 mA current loop (active or passive, switch selectable)

**Maximum Veiwing Distance:**
150 ft (50 m)

**Output Interface:**
Independently configurable echo out port, RS-232 or 20 mA current loop (active or passive, switch selectable)

**Input Data Format:**
Baud Rate: 1200, 2400, 4800, 9600, and 19200 self learning or
software selectable
Character Format: 7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits, self learning or software selectable

**Update:**
Continuous or out-of-motion only; software selectable

**Power Consumption:**
8-character: 21 watt
12-character: 27 watt

**Time Option:**
Software enable/disable, 12- or 24-hour format

**Date Option:**
Software enable/disable, US or ISO format

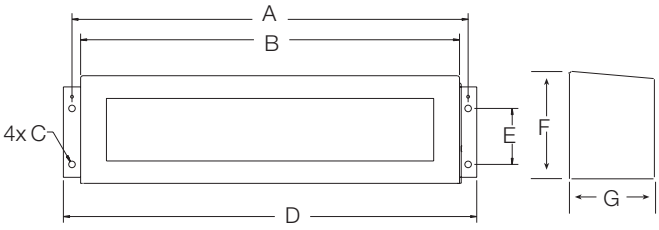
**Rating/Material:**
Weatherproof, mild steel, powder coated

**Weight:**
8-character:16 lb (7 kg)
12-character: 22 lb (10 kg)

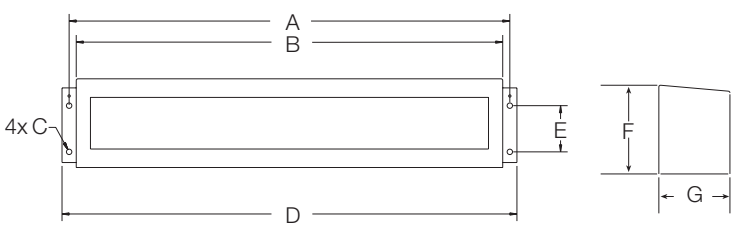
**Operating Temperature Range:**
-40°F to 120°F (-40°C to 49°C)

**Warranty:**
Two-year limited warranty

**Approvals:**
UL/cUL on specific part numbers




*LaserLight 3M8*




*LaserLight 3M12*



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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **85137** | LaserLight 3M8 messaging 8-character | 22 lb | $1,550.00 |
| **Consult*** | LaserLight 3M8 messaging 8-character, marked UL/cUL | 22 lb | $1,750.00 |
| **85152** | LaserLight 3M12 messaging 12-character | 27 lb | $2,000.00 |
| **Consult*** | LaserLight 3M12 messaging 12-character, marked UL/cUL | 27 lb | $2,200.00 |

** LaserLights with UL/cUL approval*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **75853** | Time and date | $125.00 |
| **85343** | 3M8 LaserLight pole mount kit | $225.00 |
| **85344** | 3M12 LaserLight pole mount kit | $225.00 |
| **75936** | Additional operating manual | $29.00 |
| **103178** | Wireless RFI interface, includes pair of ConnexLink™ radios (for 3M12 only) | $795.00 |






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# LaserLT-60 and LaserLT-100

Two-inch, Four-inch Remote Display or Weight Indicator




*LaserLT-60*




*LaserLT-100*

## Standard Features

- Available as a 2.4 in (60 mm) or 4 in (100 mm) display
- Six-digit display with high-intensity LEDs
- Auto Learn mode, weight value only
- Configuration for format length, weight location, termination character
- Manual Configuration mode for reading weight, variables and bitmap bytes
- Parameters for motion, overload, decimal point, net character, COZ
- Status LEDs for Zero, Motion, Net, Unit 1, Unit 2
- Integrated five-key waterproof keypad with configurable scale commands
- Adjustment for six levels of brightness through the keypad
- Includes removable back wall mount bracket
- Fitted with anti-condensation air valve to regulate humidity and pressure
- Powered with 110 - 240 VAC or 12 to 24 VDC

## Approvals

CE

## Specifications

**Display:**
6-digit, 7-segment discrete oval red LED lamps, single width
2.4 in (60 mm) or 4 in (100 mm) digit
Decimal/comma indication in any position
Annunciators for NT, Stability, COZ

**Maximum Viewing Distance:**
LaserLT-60: 2.4 in digit 75 ft (25 m)
LaserLT-100: 4 in digit 150 ft (50 m)

**Input Interface:**
RS-232, RS-485

**Output Interface:**
RS-232, RS-485

**Input Data Format:**
Baud Rate: 1200 to 115.2 K software selectable.
Even parity 7 data bits, or no parity 8 data bits

**Update:**
Software selectable 1-20/sec

**Digital I/O:**
Two inputs, 12-24 VDC
Two outputs, 48 VAC, 60 VDC max

**Rating/Material:**
304 stainless steel, IP68

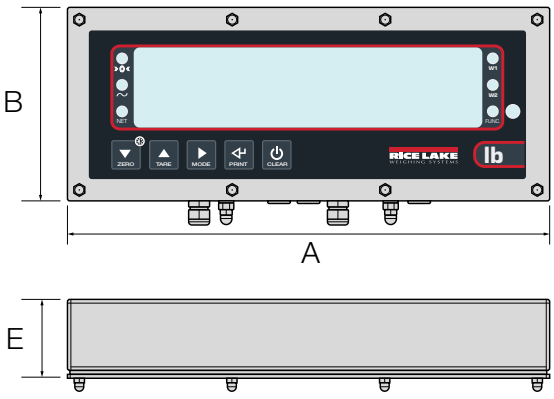
**Weight:**
10 lb

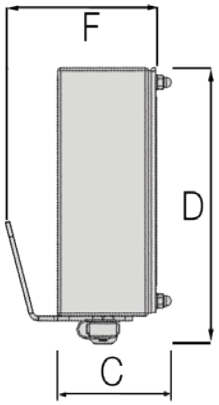
**Operating Temperature:**
-40°F to 120°F (-40°C to 49°C)

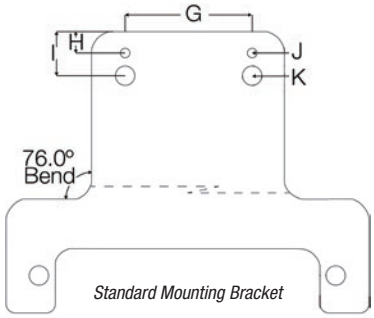
**Warranty:**
One-year limited warranty

**Approvals:**
CE marked

| Dimensions | | | |
|---|---|---|---|
| **LaserLT-60** | | | |
| A | 16.14 in (410 mm) | D | 7.28 in (185 mm) |
| B | 6.50 in (165 mm) | E | 2.64 in (67 mm) |
| C | 3.03 in (77 mm) | F | 4.84 in (123 mm) |
| **LaserLT-100** | | | |
| A | 16.93 in (430 mm) | D | 7.63 in (194 mm) |
| B | 7.28 in (185 mm) | E | 2.52 in (64 mm) |
| C | 2.52 in (64 mm) | F | 3.98 in (101 mm) |
| **Mount Bracket** | | **Hole Dimensions** | |
| G | 2.36 in (60 mm) | J | 2 x Ø 6.0 mm |
| H | 0.39 in (10.0 mm) | K | 2 x Ø 10 mm |
| I | 0.81 in (20.5 mm) | | |




*Standard Mounting Bracket*



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## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **Remote Display** | | |
| **185253** | LaserLT-60 remote display, 2.4 in (60 mm) LED | $1,100.00 |
| **185255** | LaserLT-100 remote display, 4.0 in (100 mm) LED | $1,400.00 |
| **Weight Indicator** | | |
| **197453*** | LaserLT-60, indicator with weighing functionality 2.4 in (60 mm) LED | $1,150.00 |
| **197454*** | LaserLT-100, indicator with weighing functionality 4.0 in (100 mm) LED | $1,450.00 |

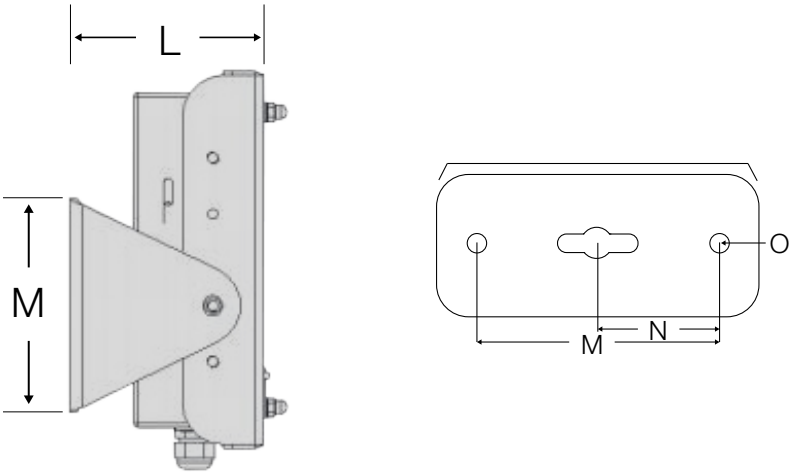
**See Instrumentation catalog section for LaserLT models that are configurable as a weight indicator (using SCT-1100 firmware).*

- *Max 10,000 divisions or multi-range*
- *A/D 24 bit 4-channel conversion*
- *Connect 4 cells with summing or up to 4 independent weighing systems*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **185256** | Mount bracket, 2 tilting side brackets for LaserLT-100 | $50.00 |
| **185258** | Visor for LaserLT-100 | $125.00 |

| Dimensions | | | |
|---|---|---|---|
| **Optional Side Bracket** | | **Hole Dimensions** | |
| L | 3.875 in (98 mm) | P | 2 x Ø 7.0 mm |
| M | 1.97 in (50 mm) | Q | 0.43 in (11 mm) |
| N | 3.15 in (80.0 mm) | R | 0.28 in (7 mm) |
| O | 1.57 in (40 mm) | S | 4.13 in (105 mm) |




*LaserLT-100*
*Optional Side Bracket*




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# RD-232

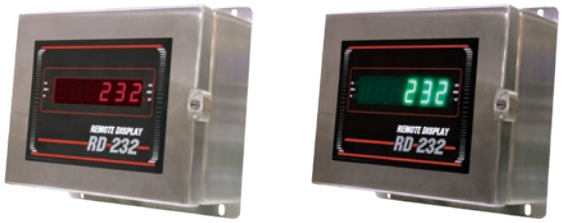
0.8-inch LED Remote Display



*RD-232 NEMA Type 4X FRP Enclosure*



*RD-232 Compact Stainless Steel Wall Mount Enclosure*



*RD-232 NEMA Type 4X Stainless Steel Wall Mount Enclosure*

## Specifications

**Display:**
6-digit, 7-segment, 0.8 in (20.32 mm)
Light Emitting Diode (LED)
Red (standard intensity)
Green (sunlight visible)

**Status Annunciators:**
lb, kg, gross, net

**Operating Voltage:**
115 VAC, 230 VAC available
DC Voltage Range: 6.2-18 VDC

**Input Interface:**
RS-232, 20 mA active or passive current loop
ASCII compatible

**Baud Rate:**
Selectable: 300, 600, 1200, 2400, 4800, 9600, 19200

**Operating Temperature:**
-13°F to 104°F (-25°C to 40°C)

**Rating/Material:**
NEMA Type 4X FRP or optional stainless steel

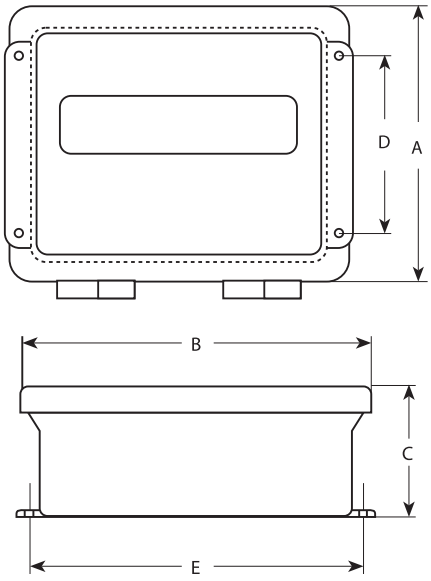
**Weight:**
Approximately 5 lb (2.3 kg)
Stainless steel unit, approximately 8 lb (3.6 kg)

**Warranty:**
One-year limited warranty

## Standard Features

- NEMA Type 4X Fiberglass Reinforced Polyester (FRP) wall-mount enclosure
- Optional NEMA Type 4X stainless steel wall-mount enclosure or NEMA Type 12 panel-mount version
- Easy-to-read 6-digit 0.8 in (20.3 mm) LED red (standard intensity) or green (sunlight visible)
- AC or DC operation
- Four status annunciators
- Full floating decimal point
- RS-232 or 20 mA current loop active or passive interface
- Compatible with a variety of digital weighing indicators; DIP switch selectable intuitive data receiver interprets serial strings

| Dimensions | | | |
|---|---|---|---|
| **FRP Enclosure** | | | |
| A | 8.00 in (203 mm) | D | 4.00 in (101 mm) |
| B | 9.50 in (241 mm) | E | 9.00 in (222 mm) |
| C | 6.00 in (133 mm) | | |
| **Stainless Steel Enclosure** | | | |
| A | 8.00 in (203 mm) | D | 8.63 in (219 mm) |
| B | 10.00 in (254 mm) | E | 8.00 in (203 mm) |
| C | 4.31 in (109 mm) | | |
| **Compact Enclosure** | | | |
| A | 6.25 in (158 mm) | D | 5.25 in (133 mm) |
| B | 9.25 in (234 mm) | E | 8.50 in (215 mm) |
| C | 2.00 in (50 mm) | | |
| **Panel Mount** | | | |
| A | 5.88 in (149 mm) | D | 5.12 in (130 mm) |
| B | 7.88 in (200 mm) | E | 7.12 in (180 mm) |
| C | 2.00 in (50 mm) | | |






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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Red LED** | | | |
| **32716** | RD-232, 115 VAC/12 VDC, FRP enclosure, red LED | 5 lb | $950.00 |
| **68786** | RD-232, 115 VAC/12 VDC, compact stainless steel wall mount enclosure, red LED | 5 lb | $950.00 |
| **32717** | RD-232, 115 VAC/12 VDC, NEMA Type 4X stainless steel wall mount enclosure, red LED | 8 lb | $1,200.00 |
| **32727** | RD-232, 115 VAC/12 VDC, panel mount, red LED | 3 lb | $900.00 |
| **34748** | RD-232, 230 VAC/12 VDC, no power cord, FRP enclosure, red LED | 5 lb | $1,000.00 |
| **Green LED** | | | |
| **178168** | RD-232, 117 VAC/12 VDC, FRP enclosure, green LED | 5 lb | $950.00 |
| **178169** | RD-232, 117 VAC/12 VDC, compact stainless steel wall mount enclosure, green LED | 5 lb | $950.00 |
| **178170** | RD-232, 117 VAC/12 VDC, NEMA Type 4X stainless steel wall mount enclosure, green LED | 8 lb | $1,200.00 |
| **178171** | RD-232, 220 VAC/12 VDC, FRP enclosure, no power cord, green LED | 5 lb | $1,000.00 |

*Specify interfacing indicator when ordering a remote display*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **33210** | Additional operating manual (RD-232/RD-300) | $21.00 |





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# RD-300

1.0-inch LCD Remote Display




*RD-300 NEMA Type 4X FRP Enclosure*




*RD-300 Compact Stainless Enclosure*




*RD-300 NEMA Type 4X Stainless Steel Enclosure*

## Specifications

**Display:**
6-digit, 7-segment, 0.8 in (20.32 mm) Light Emitting Diode (LED)

**Status Annunciators:**
lb, kg, gross, net

**Operating Voltage:**
115 VAC, 230 VAC available
DC Voltage Range: 6.2-18 VDC

**Input Interface:**
RS-232, 20 mA active or passive current loop
ASCII compatible

**Baud Rate:**
Selectable: 300, 600, 1200, 2400, 4800, 9600, 19200

**Operating Temperature:**
-13°F to 104°F (-25°C to 40°C)

**Rating/Material:**
NEMA Type 4X FRP or optional stainless steel

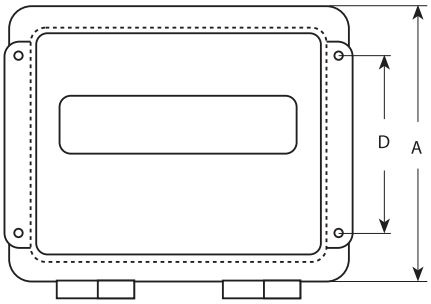
**Weight:**
Approximately 5 lb (2.3 kg)
Stainless steel unit, approximately 8 lb (3.6 kg)

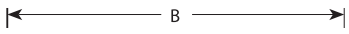
**Warranty:**
One-year limited warranty

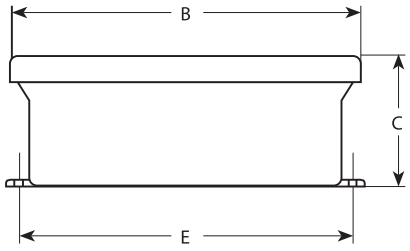
## Standard Features

- NEMA Type 4X Fiberglass Reinforced Polyester (FRP) wall mount enclosure
- Optional NEMA Type 4X stainless steel wall mount enclosure
- Easy-to-read 1 in (25.4 mm) Liquid Crystal Display (LCD)
- RS-232 and 20 mA active current loop interface
- Status annunciators
- AC operation
- Backlight for dark conditions
- Compatible with a variety of digital weight indicators; intuitive data receiver automatically interprets serial strings
- 115 VAC and 230 VAC available

| Dimensions | | | |
|---|---|---|---|
| **FRP Enclosure** | | | |
| A | 8.00 in (203 mm) | D | 4.00 in (101 mm) |
| B | 9.50 in (241 mm) | E | 8.75 in (222 mm) |
| C | 6.00 in (133 mm) | | |
| **Stainless Steel Enclosure** | | | |
| A | 8.00 in (203 mm) | D | 8.63 in (219 mm) |
| B | 10.00 in (254 mm) | E | 8.00 in (203 mm) |
| C | 4.31 in (109 mm) | | |
| **Compact Enclosure** | | | |
| A | 6.25 in (158 mm) | D | 5.25 in (133 mm) |
| B | 9.25 in (234 mm) | E | 8.50 in (215 mm) |
| C | 2.00 in (50 mm) | | |
| **Panel Mount** | | | |
| A | 5.88 in (149 mm) | D | 5.12 in (130 mm) |
| B | 7.88 in (200 mm) | E | 7.12 in (180 mm) |
| C | 2.00 in (50 mm) | | |






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## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **68782** | RD-300 AC, compact stainless steel enclosure with backlight | 5 lb | $950.00 |
| **22532** | RD-300 AC, FRP enclosure with backlight | 5 lb | $950.00 |
| **22536** | RD-300 AC, NEMA Type 4X stainless steel enclosure with backlight | 8 lb | $1,200.00 |
| **22540** | RD-300 AC, panel mount with backlight | 3 lb | $900.00 |
| **34750** | RD-300 AC, 230 VAC, FRP enclosure with backlight | 5 lb | $1,000.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **33210** | Additional operating manual (RD-300/RD-232) | $21.00 |



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# Retail

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# Rice Lake RS-130/RS-160

Battery-Operated Price Computing Scales




*RS-130 Pole*



*RS-160 Bench*

## Standard Features

- Toggle between lb/kg/oz*
- Nine PLU keys for direct price lookups
- Function keys: change, unit, zero, tare
- Backlit LCD display, 0.45 in (11.5 mm) character height
- Cash back calculation
- Large stainless steel platter
- In-use cover
- Pole swivels to face desired direction
- Battery charge indicator
- Internal sealed battery included
- Optional customer display
- NTEP Certified, Legal for Trade

**Not Measurement Canada Approved*

## APPROVALS

## Part Number/Price

| Part # | Model | Capacity | Weight | Price |
|---|---|---|---|---|
| **167941** | RS-130 Bench | 30 lb x 0.01 lb<br>15 kg x 0.005 kg<br>480 oz x 0.2 oz | 12 lb | $365.00 |
| **168100** | RS-130 Pole | 30 lb x 0.01 lb<br>15 kg x 0.005 kg<br>480 oz x 0.2 oz | 13 lb | $376.00 |
| **167942** | RS-160 Bench | 60 lb x 0.02 lb<br>30 kg x 0.01 kg<br>960 oz x 0.5 oz | 12 lb | $375.00 |
| **168101** | RS-160 Pole | 60 lb x 0.02 lb<br>30 kg x 0.01 kg<br>960 oz x 0.5 oz | 13 lb | $387.00 |

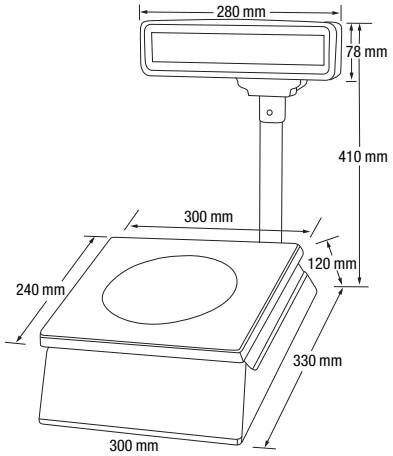
*NOTE: Buy quantity of 5 and get a 50% discount*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **169634** | Additional operating manual | $15.00 |
| **169635** | Additional calibration instructions | $5.00 |
| **85711** | Additional in-use cover | $6.00 |
| **47976** | Fish platter, (W x D) 9.5 x 13.5 in | $95.00 |
| **47977** | Produce platter, (W x D) 9.5 x 13.5 in | $75.00 |
| **85710** | Replacement rechargeable battery, 6V | $22.00 |

| Dimensions: Bench |
|---|
| **Unit** |
| 11.8 in x 13.0 in x 4.7 in<br>(300 mm x 330 mm x 120 mm) |
| **Stainless Steel Platter** |
| 11.8 in x 9.5 in (300 mm x 240 mm) |

| Dimensions: Pole |
|---|
| **Unit** |
| 11.8 in x 13.0 in x 4.7 in<br>(300 mm x 330 mm x 120 mm) |
| **Stainless Steel Platter** |
| 11.8 in x 9.5 in (300 mm x 240 mm) |
| **Head** |
| 11 in x 3.1 in (280 mm x 78 mm) |
| **Unit with Pole** |
| 11.8 in x 9.5 in x 16.1 in<br>(300 mm x 240 mm x 410 mm) |




## Specifications

**Capacity/Graduations:**
**RS-130:**
30 lb x 0.01 lb
15 kg x 0.005 kg
480 oz x 0.2 oz
**RS-160:**
60 lb x 0.02 lb
30 kg x 0.01 kg
960 oz x 0.5 oz

**Display Items:**
Weight: Five-digits
Unit price: Five-digits
Total price: Six-digits

**Accuracy:**
1/3,000

**Display:**
Backlit LCD, 0.453 in (11.5 mm) character height

**Power Source:**
DC 6V/25 mA rechargeable battery with AC adaptor included AC 115V/0.1A (max) (100+ hours battery life, 8-10 hours to recharge)

**Weight:**
10 lb (4.5 kg)

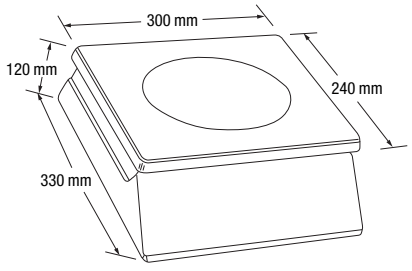
**Preset Key:**
Nine direct price lookups

**Dimensions:**
Platter: (W x D) 11.8 x 9.5 in
Overall: (W x D x H) 12.3 x 13.0 x 4.7 in

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Classification:**
NTEP CC 04-067, Class III 3000d
*Not Measurement Canada Approved

**Warranty:**
One-year limited warranty






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# Ishida Astra II

Price Computing Scale with Printer

## Specifications

**Capacity:**
30 lb x 0.01 lb

**Weighing Resolution:**
3,000 display divisions maximum

**Display Types:**
LCD, blue alphanumeric (23 digits, 16 seg)

**Display Items:**
Tare: Four-digits
Unit price: Five-digits
Total price: Six-digits

**Preset Keys:**
84 one-touch preset keys 168 presets (assign two items/key)

**Memory Capacity:**
2 MB

**Communications:**
TCP/IP 10/100 Base T Ethernet

**Platter:**
14.5 x 10.5 in (368 x 268 mm)

**Printing Speed:**
3.9 in (100 mm) per second

**Printing:**
Direct thermal 2.2 in (56 mm) (448 dot, 8 dot/mm)

**Label Size:**
Width: 1.5-2.5 in (38-64 mm) {min}
Length: 1.2-6.9 in (30-175 mm) {max}

**Label Roll:**
Inside diameter: 1.6 in (40 mm)
Outside diameter: 3.9 in (100 mm)

**Label Backing Paper:**
Width: Up to 2.6 in (66 mm)

**Power Supply:**
AC100-240V, 50/60 Hz

**Power Consumption:**
Stand-by: 50 W
In operation: 100 W

**Classification:**
NTEP CC 07-005
UL Listed

**Warranty:**
One-year limited warranty



*Astra II Bench*



*Astra II Pole*

*(Pictured with custom operator keyboard insert, not included)*

## Standard Features

- 84 one-touch preset keys, 168 presets (assign two items/key )
- Programmable function keys
- Blue alphanumeric LCD display (23 digits, 16 segments)
- Print speed of 3.9 in (100 mm) per second
- Convenient side-loading label feature
- TCP/IP 10/100 Base T Ethernet
- USB port (for data backup and restore)
- Proportional tare
- Optional customer display
- NTEP Certified, Legal for Trade

**APPROVALS**

## Part Number/Price

| Part # | Model | Capacity | Weight | Price |
|---|---|---|---|---|
| **185822** | Astra II Bench | 30 lb x 0.01 lb | 25 lb | $1,623.00 |
| **185823** | Astra II Pole | 30 lb x 0.01 lb | 25 lb | $1,705.00 |
| **190641** | Astra II Lite software CD | | | $0.00 |
| **190642** | Astra II Lite license file (for one computer only not transferable) | | | $149.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **47977** | Produce platter (sits on top platter included with scale) | $75.00 |
| **47976** | Fish platter (sits on top platter included with scale) | $95.00 |
| **47341** | Continuous roll thermal journal paper, 64 mm W x 50 m L (for reports only) | $5.00 |
| **184273*** | Technical manual | $15.00 |
| **184270*** | Additional operating manual | $15.00 |
| **184274*** | Additional operation card | $15.00 |
| **47732** | 2.36 in x 1.73 in (60 mm x 44 mm) | $66.00 |
| **47733** | 2.52 in x 1.85 in (64 mm x 47 mm) | $66.00 |
| **47735** | 2.52 in x 2.32 in (64 mm x 59 mm) | $66.00 |
| **47736** | Pre-printed safe handling instructions, 2.52 in x 2.32 in (64 mm x 59 mm) | $66.00 |
| **47743 *** ** | Extended text, 2.52 in x 3.34 in (64 mm x 85 mm) | $66.00 |
| **47745** | Pre-printed safe handling instructions on top of label, 2.52 in x 3.34 in (64 mm x 85 mm) | $66.00 |
| **47753** | Blank 2.52 in x 1.46 in (64 mm x 37 mm) | $66.00 |
| **47754** | Blank 2.52 in x 1.85 in (64 mm x 47 mm) | $66.00 |



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# Ishida Astra II

Price Computing Scale with Printer

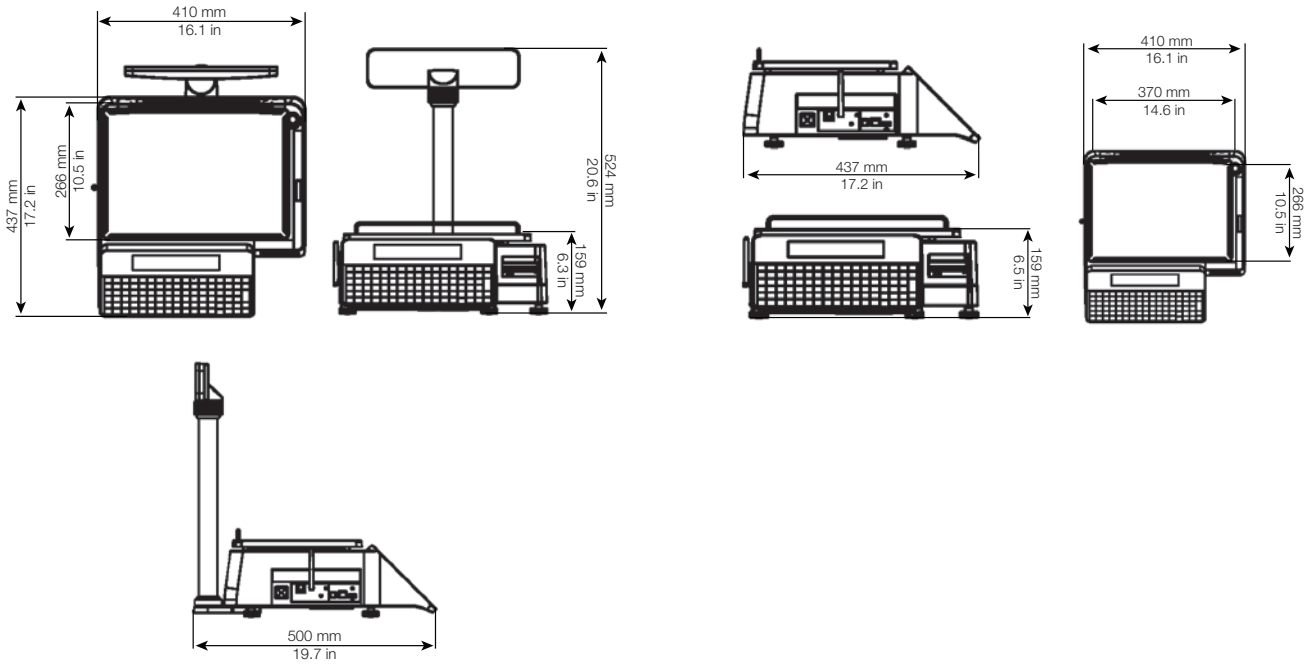
## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **47760** | Blank 2.52 in x 3.34 in (64 mm x 59 mm) | $115.00 |
| **47762** | Non-barcode, 2.52 in x 2.32 in (64 mm x 37 mm) | $66.00 |
| **105346** | Blank 2.52 in x 3.34 in (64 mm x 85 mm) | $66.00 |

*Label Stock, please consult factory for case quantity pricing. Examples shown on page 1007*
*Labels sold by the case-12 rolls per case.*
** Manuals and software programs can be downloaded at no charge from our website at www.ricelake.com*
**** Safe handling instructions can also be printed by scale*

| Dimensions: Bench |
|---|
| **Unit** |
| 17.2 in x 16.1 in x 6.3 in<br>(437 mm x 410 mm x 159 mm) |
| **Stainless Steel Platter** |
| 10.5 in x 14.6 in (268 x 370 mm) |

| Dimensions: Pole |
|---|
| **Unit** |
| 17.2 in x 16.1 in x 6.3 in<br>(437 mm x 410 mm x 159 mm) |
| **Stainless Steel Platter** |
| 10.5 in x 14.6 in (268 x 370 mm) |
| **Unit with Pole** |
| 19.7 in x 16.1 in x 20.6 in (500 mm x 410 mm x 524 mm) |






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# Ishida Astra II Standard Label Formats

Titles on labels are pre-printed (SELL BY, PACKED ON, $ LB, NET WT, TOTAL PRICE)

Maximum description text per label

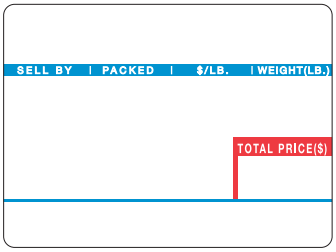
**Formats 1-5** ..... *1 name line + 2 ingredient lines*

**Format 6** ..... *1 name line + 6 ingredient lines*

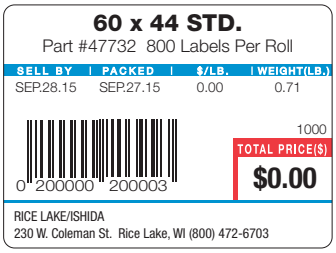
**Format 7** ..... *1 name line + 17 ingredient lines*

**Format 8** ..... *1 name line + 6 ingredient lines*

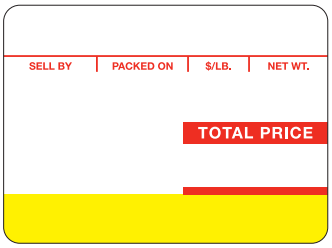
## Format 1



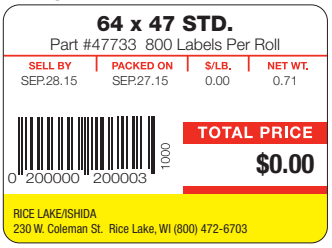

### Example PN 47732



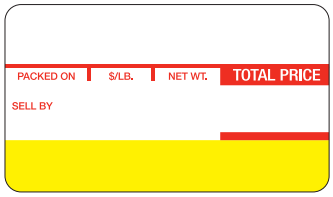

## Format 2



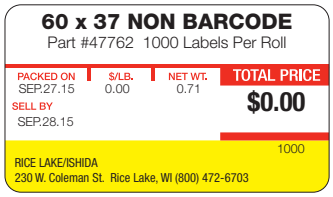

### Example PN 47733



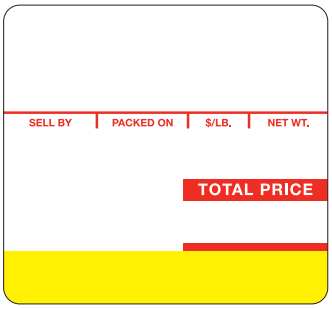

## Format 5




### Example PN 47762



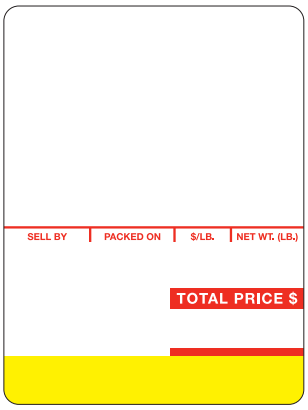

## Format 6




### Example PN 47735



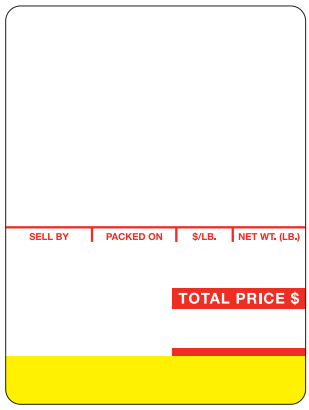

## Format 3




### Example PN 47743



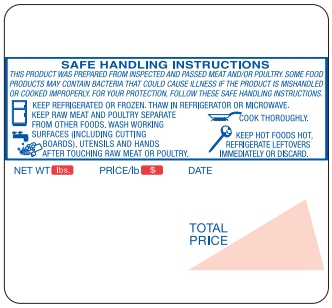

## Format 7




### Example PN 47743




## Format 4




### Example PN 47736




## Format 8




### Example PN 47745








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# BenchPro™ BP-R

Multi-Purpose Digital Bench Scale



*BP-R 10 x 10 with optional table top display pole PN 183103 and customer display PN 180901*

## Standard Features

- Large six-digit backlight LCD display with 1 in (29 mm) characters protected by heavy-duty tempered glass
- Powered USB HID point of sale interface – plug and play USB interface provides power and communications
- Nine-pin RS-232 interface for use with SMA, NCI and ECR
- Four AA alkaline battery operation for portability (BP-R 12 x 14 scale only) - (batteries not included)
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved

## APPROVALS



*BP-R 12 x 14 scale*



*BP-R 06 x 10 scale*



*BP-R 12 x 14 scale with optional column bracket & post*

## Specifications

**Dynamic Response:**
0-1000d, 1000 ms, maximum average
1000d +, 1500 ms, maximum average

**Power:**
In-line Power Supply
Input: 100-240 VAC, +10% -15%, 3-wire w/ground
Standard terminated with USA 3-prong plug
Output: 12 V at .1 Amps DC minimum
Frequency: 50/60 Hz +/-3 Hz, standard
Approvals: UL, CE, EN, CUL

**Battery Power - BP 1214 Series Only:**
Battery Type: Four AA alkaline batteries (not included)
Approx Life: 250 hrs ( sleep mode) or 80 hrs (continuous use) Backlight on 80 hrs (sleep mode) or 50 hrs (continuous use)

**Construction:**
BP Series 0602 and 1010 - Powder coat painted mild steel base plate and load bridge with stainless steel weight platter
BP Series 1214 - DieCast aluminum load bridge and base housing with stainless steel weight platter

**Display:**
Minimum key press life of 500,000 cycles, ABS plastic housing with Zero, Gross/Brutto, Net, W1/W2/W3 annunciators.

**Dimensions:**
(L x W x D) 5.25 x 2.21 x 1.09 in Includes an 18 in cable with RJ-45 connection to scale

**RS-232 Cable:**
10 ft DB 9-pin male to female, straight pass through and null modem

**USB Cable:**
46 in (1,168.4 mm) A/B type USB cable

**USB HID:**
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

**Cleaning:**
Use of mild soap and water with a wet cloth

**Approvals:**
NTEP COC# 17-202
CE
Canada Weights and Measures: AM - 6050

**Warranty:**
Two-year limited warranty




*Operator display*




*Customer display (optional)*



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## Part Number/Price

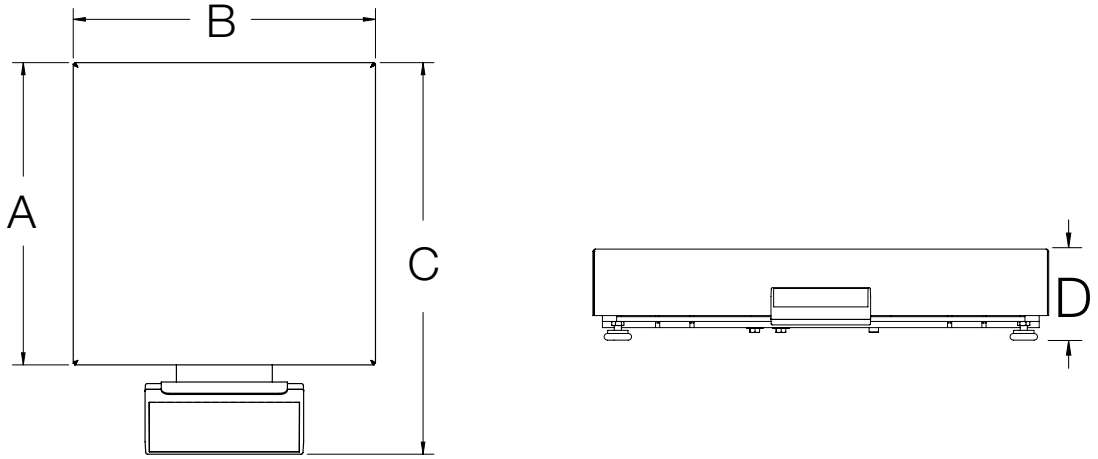
| Part # | Capacity | Dimensions | Est. Ship Weight | Price |
|---|---|---|---|---|
| **182374** | 15 x 0.005 lb (6 x 0.002 kg) / 15 lb x 0.1 oz | 6 x 10 in | 12 lb | $695.00 |
| **182375** | 30 x 0.01 lb (15 x 0.005 kg) / 30 lb x 0.2 oz | 6 x 10 in | 12 lb | $695.00 |
| **182376** | 15 x 0.005 lb (6 x 0.002 kg) / 15 lb x 0.1 oz | 10 x 10 in | 15 lb | $695.00 |
| **182377** | 30 x 0.01 lb (15 x 0.005 kg) / 30 lb x 0.2 oz | 10 x 10 in | 15 lb | $695.00 |
| **179733** | 15 x 0.005 lb (6 x 0.002 kg) / 15 lb x 0.1 oz | 12 x 14 in | 17 lb | $545.00 |
| **179732** | 30 x 0.01 lb (15 x 0.005 kg) / 30 lb x 0.2 oz | 12 x 14 in | 17 lb | $545.00 |

## Options/Accessories

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **174783** | Column bracket and post (12 x 14 scale only) | 2 lb | $45.00 |
| **180901** | Second Customer display, BenchPro BP-R no keyboard with 68 in cable | 4 lb | $65.00 |
| **174784** | Second Remote operator display, BenchPro BP-R with 68 in cable | 4 lb | $80.00 |
| **183103** | 16 in (H) tabletop display post for use with second display, customer or remote operator | 4 lb | $195.00 |
| **178501** | USB-RS-232 serial adapter | 1 lb | $45.00 |
| **196179** | Wedgelink cable for direct RS-232 output, 9600-N-8-1 | 1 lb | $235.00 |

## Dimensions/Inches

| | A | B | C | D |
|---|---|---|---|---|
| 6 x 10 | 6.0 | 10.0 | 9.0 | 2.4 |
| 10 x 10 | 10.0 | 10.0 | 13.0 | 2.5 |
| 12 x 14 | 12.0 | 14.0 | 14.5 | 2.7 |








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# QuikSharp™
Sharpener



## Specifications

**Blades:**
Tungsten carbide

**Honing Rods:**
Ceramic

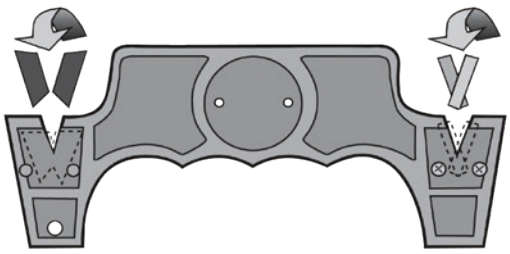
**Dimensions (L x W x H):**
6 x 0.75 x 2.5 in
(152.4 x 19.05 x 63.5 mm)

## Standard Features

- Tungsten carbide sharpener
- Ceramic honing rods
- Reversible blades

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **78720** | Intruder QuikSharp™ complete knife sharpening system | 2.25 oz | $12.00 |



**HOW TO REVERSE CARBIDE BLADES AND CERAMIC RODS**

**1. Remove screws to open sharpener.**
**2. Reverse blades or rods as shown.**
**3. Replace screws and reassemble sharpener. Reversible blades have a total expected life of four to five years with normal use.**



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# Scanners

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# Datalogic® QuickScan® QD2131

Linear Imager Handheld Scanner



## Standard Features

- Light weight and balanced design
- Extra-wide scan angle and extra-long scan line
- Extended reading range and depth of field (DOF)
- Sharp and highly visible scan line
- Decent depth of field reading for general purpose scanning applications
- Datalogic's patented 'Green Spot' technology for good-read feedback
- IP42 rating for Particulate and Water Sealing
- 1.5 m / 5.0 ft drop specification
- 5-Year standard factory warranty
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## Depth-of-Field

- Printing resolution, contrast and ambient light dependent

| Density | Range |
|---|---|
| 4 mils | 0.0 in to 4.3 in (2.0 cm to 11 cm) |
| 5 mils | 0.6 in to 6.0 in (1.5 cm to 15.0 cm) |
| 10 mils | 0.3 in to 15 in (0.8 cm to 38.0 cm) |
| 20 mils | 1 in to 26 in (2.5 cm to 65 cm) |

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **176306** | QuickScan, QD2131, RS-232 6 ft cable and stand | 4 lb | $285.00 |
| **176307** | QuickScan, QD2131, USB cable | 4 lb | $258.00 |
| **114796** | QuickScan, QD2131, RS-232 cable, stand, eight-pin DIN cable for use with Digi® counting scales | 4 lb | $400.00 |
| **121495** | QuickScan, QD2131, RS-232 cable, stand, nine-pin quick connect (supplies power from Counterpart Digital I/O) | 4 lb | $335.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **192322** | Power supply, desktop 5 V, 12 W | $41.25 |
| **112447** | RS-232 6 ft cable coiled nine-pin female | $50.00 |
| **85022** | PS/2 to AT adaptor five-pin DIN male six-pin DIN female 6 in tail | $12.00 |
| **114797** | RS-232 cable with eight-pin DIN cable (for use with Digi counting scales) | $95.00 |
| **125744** | RS-232 cable nine-pin powered cable to blunt end with plug in (for use with Counterpart®) | $50.00 |

## Specifications

**Light Source:**
Red LED 617 mm

**Decode Capabilities:**
UPC A, E/EAN 8, 13/JAN 8, 13 (including add-ons P2/P5, Code128), Code 128, Code 93, Pharmacode 39, Code 39, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, RSS 14, RSS-14 Stacked, RSS Expanded, RSS Limited, MSI/Plessey, UK/Plessey, Telepen, Code 16K, Code 11, PDF417 with audio assist

**Dimensions:**
(H x L x W): 6.7 x 2.8 x 2.6 in (17.0 x 7.1 x 6.6 cm)

**Weight:**
121.9 g (4.3 oz)

**Read Rate:**
270 reads/sec

**Communications:**
RS-232 DB9 female connector
USB
Keyboard wedge
Wand multi-interface

**Operating Temperature:**
32° F to 122° F (0° C to 50° C)

**Humidity:**
5% to 95% non-condensing

**Shock Tolerance:**
Withstands repeated drops on concrete from 5 ft (1.5 m)

**Ingress Protection Rating:**
IP42

**Warranty:**
Five-year limited warranty



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# Datalogic® PowerScan® PD9130 Series

## Specifications

**Dimensions:**
(H x L x W): 8.0 x 3.0 x 4.5 in (20.3 x 7.6 x 11.4 cm)

**Weight:**
280.0 g (9.9 oz)

**Display:**
LED

**Operating Temperature:**
-22° F to 122° F (-30° C to 50° C)

**Storage Temperature:**
-22° F to 122° F (-40° C to 70° C)

**Humidity:**
5% to 95% non-condensing

**Light Source:**
Aiming 630 - 680 mm VLD

**Communications:**
Keyboard wedge, USB or RS-232

**Ingress Protection Rating:**
IP65

**Drop Resistance:**
6.6 ft (2 m)

**Warranty:**
Three-year limited warranty



## Standard Features

- IP65 sealing rating
- Durable–tested to 50 drops of 2 m/6.6 ft
- 25 kV electrostatic protection
- Datalogic green spot and loud beeper for good read feedback
- Aladdin® software for configuration
- Linear Imager

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **195144** | Scanner, PD9130 YB multi-interface, requires cable - (ordered separately) | 4 lb | $506.00 |
| **195145** | Scanner kit, PD9130 YBK2 scanner and RS-232 cable - (included) | 4 lb | $545.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **195146** | Kit, universal mount, Datalogic STD-P090 | $30.00 |
| **108217** | RS-232 cable, CAB-434, 8 ft, nine-pin female coiled, PD9100 Series | $70.00 |
| **195147** | USB cable, CAB-524 for use with PD9130 only | $70.00 |
| **108219** | Keyboard wedge cable, CAB-437, PD9100 Series | $70.00 |
| **192322** | Power supply, desktop 5 volt, 12 W, PD9100 Series | $41.25 |
| **41276** | DB9-M Pin blunt end cable | $65.00 |
| **Consult** | RS-232 coiled 12 ft, CAB 467 | Consult |
| **Consult** | RS-232 coiled 15 ft, CAB 486 | Consult |
| **Consult** | USB, 8-0734-08 | Consult |





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# Datalogic® PowerScan® RF PM9100 Series




## Standard Features

- Scanner is IP65
- Base station is IP64
- Wireless operation
- Operates up to 10 hours on a single charge
- Datalogic Green spot for good read feedback
- Polycarbonate molded with rubber
- Multi-point operation allows for multiple scanner communications to a single base station
- Linear Imager

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **196334** | PowerScan RF scanner with battery, SR, 910 MHz for RS-232 keyboard wedge wand emulation interfaces (requires cable and base station) | 4 lb | $773.00 |
| **182779** | PowerScan RF base station, 910 MHz for RS-232, keyboard wedge/wand | 5 lb | $455.00 |
| **190963** | PowerScan PM9100 US, AC power adapter | 3 lb | $40.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **108219** | Cable, wedge, Y, six-pin mini DIN, five-pin D/N, universal adapter cable | $70.00 |
| **108217** | Cable, RS-232, nine-pin D-sub, 8 ft | $70.00 |

## Specifications

**Dimensions:**
Scanner: 8.4 x 4.5 x 2.8 in
(212 x 109 x 71 mm)
Base Station: 10.5 x 3.5 x 2.5 in
(266.7 x 88.9 x 63.5 mm)
(width is 4.2 in/106.68 mm including mounting knobs)

**Weight:**
Scanner: 14.2 oz (405.0 g)
Base Station: 16 oz (454 g)

**Display:**
LCD: 6 lines x 16 characters

**Light Source:**
VLD between 630-380 nm

**Base Station:**
US: 110 V±10%, 60 Hz

**Communications:**
Host: RS-232 with DB9 S, P/S and 12 ft cable.
KBW (keyboard wedge) with P/S and 6 M Din, coiled cable 12 ft.
USB, 12 ft coiled cable

**Frequency Range: (varies by country)**
915 mHz

**Operating Temperature:**
-4˚F to 122˚F (-20˚C to 50˚C)

**Storage Temperature:**
-40˚F to 158˚F (-40˚C to 70˚C)

**Ingress Protection Rating:**
Scanner: IP65
Base station: IP64

**Humidity:**
0-90% non-condensing

**Drop Resistance:**
2 m

**Battery Type:**
Li-Ion 2150 mAh

**Electrical:**
Complies to C-CSA-US
(60950 Canada and USA)

**Warranty:**
Three-year limited warranty



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## Specifications

**Dimensions:**
1.15 (H) x 2.3 (L) x 2.44 in (W)
2.92 (H) x 5.84 (L) x 6.2 cm (W)

**Weight:**
3.9 oz (111 g)

**Power Maximum:**
5 VDC +/- 10% at 450 mA

**Performance Characteristics:**
Sensor Resolution 752 (H) x 480 (V) gray scale
Imager Field of View DS457 SR: 39.6° horizontal, 25.7° vertical
Aiming Element 655 ± 10 nm (VLD)
Illumination Element 625 ± 5 nm (LED)

**Symbology Decode Capability:**
1D All major 1D bar codes
2D PDF417, DataMatrix, QR Code, Aztec, Composite Codes and MaxiCode
Postal US Postnet, US Planet, UK Postal, Australian Postal, Japan Postal

**Communications:**
Interfaces Supported 9-Pin male D-sub USB (full speed) and TTL level RS-232 with RTS and CTS

**Operating Temperature:**
-4° to 122°F (-20° to 50°C*) (* Laser aimer disabled above 113°F /45°C)

**Storage Temperature:**
-40° to 158°F (-40° to 70°C) Storage: 85% RH, non-condensing at 70°C

**Ingress Protection Rating:**
IP54

**Humidity:**
95% RH, non-condensing at 50°C

**Drop Resistance:**
Withstands multiple 30 in (76 cm) drops to concrete

**Image File Formats:**
BMP, TIFF, JPG

**Regulatory:**
Electrical Safety ETL, VDE, CETL, EN60950, Ctick, VCCI
Laser Classification Intended for use in CDRH Class II/IEC 825 Class I devices
EMI/RFI FCC Part 15 Class B, ICES-003 Class B, CISPR22 Class B

**Warranty:**
Three-year warranty against defects in workmanship and materials




## Standard Features

- High-speed omnidirectional scan pattern
- Rugged, durable housing
- Sealed to IP54 standards
- Reads 1D and 2D symbols
- Supports 123Scan2 configuration tool
- Enables rapid and easy customized setup through a free, wizard-based PC software tool
- Scans any barcode on paper, mobile phones and computer displays

## Part Number/Price

| Part # | Description | Weight | Price |
|---|---|---|---|
| **154077** | Motorola DS457-SR (scanner 5 VDC ±10 % at 450 mA requires power source) | 4 oz (111 g) | $600.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **97479** | Cable assembly, DB9F to blunt end, can supply power from scale indicator DI/O | $55.00 |





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# VIRTUi2®

PC-Based HMI for iQUBE2®




VIRTUi2®

Virtui2 is a Windows®-based desktop application that works with iQUBE2 to replicate simple indicator functionality ideal for system integrators and OEMs wanting to provide a PC-based solution. Load cells are individually monitored and calibrated, making setup easy.

## Standard Features

- Virtual front panel consists of display and five-button keypad
- Web browser-based iQUBE2® cell status
- Provides local and remote reporting of diagnostics and error conditions
- Up to four scale systems and one total scale
- Primary/secondary units configuration (lb, kg, short tons, metric tons, none)
- RS-232 communications at up to 460 Kbps
- Electronic Data Processing (EDP) port over RS-232 and TCP/IP
- Printer port for output-only, simplex communications
- Two print formats
- Provides iQUBE2 configuration screen and iQUBE2 digital I/O configuration
- Supports iQUBE2 diagnostics with configurable error viewing
- Peak weight history
- Recalibration notification
- Concentrated load capacity (CLC)
- Section capacity

## APPROVALS

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **108435** | Virtual Indicator demo CD | N/A |
| **108436** | Activation part number - requires machine ID and customer's email address | $500.00 |

## Specifications

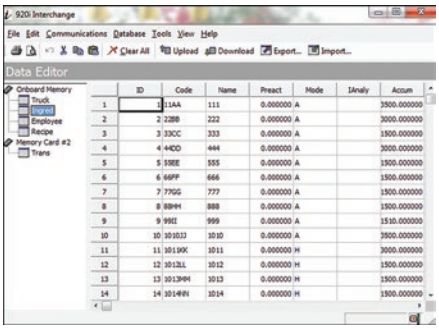
**Minimum System Requirements:**
Windows® 8.1 through 10
Serial port
USB to serial converter, or Ethernet TCP/IP for connection to iQUBE2
Additional serial ports are required for connections to printers/remote displays

**Status Annunciators:**
Units (lb, kg, short tons (tn), metric tons (t), NONE)
gross/net, motion, center of zero

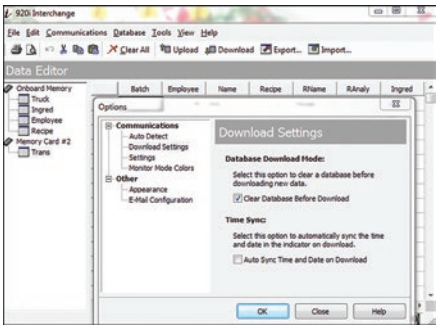
**Approvals:**
NTEP CC 04-058 Classes III and IIIL at 10,000d



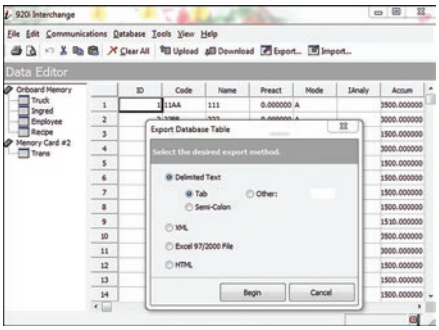
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*Database Editor*




*Communication Settings for Download*




*Export or Import Data*

## Specifications

**Minimum System Requirements:**
Windows 7 or greater

Interchange database management software is used to setup a custom job file for each database you need to export. Manually or automatically run the job file by setting a predetermined time using Windows® Task Scheduler.

## Standard Features

- Edit and Manage Databases
- Setup using an export job wizard
- Connect using RS-232, RS-485 or Ethernet TCP/IP
- Program will connect to the indicator and upload the current database structure
- Select the desired database
- Export database table file types: delimited text, XML, XLS, HTML

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **72809** | Interchange database software | $295.00 |



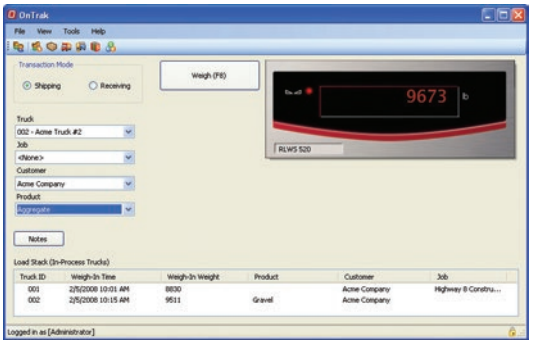


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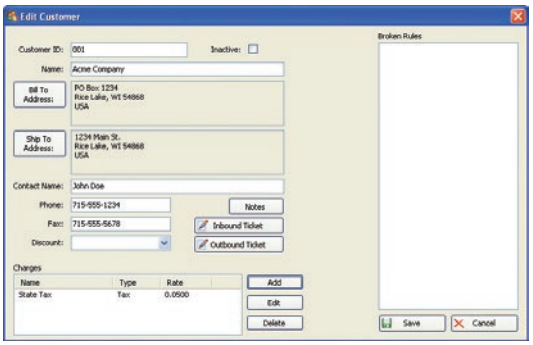
# OnTrak®

Truck Data Management Software

OnTrak®
TRUCK SCALE DATA MANAGEMENT




*Weigh Scale*




*Customer Account Information*

## Specifications

**System Requirements:**
Windows® 7 and newer (x86 or x64 systems)

**Databases:**
4 GB max database size when using included MS SQL Server Express, unlimited with standard version of MS SQL Server
Back up and restore via included SQL Server Management Studio Express

**Communications:**
Support for multiple printers
Supports all Rice Lake indicator interfaces
Supports VIRTUi/VIRTUi2 interface
Optional Drivers available for non-Rice Lake weight indicators

**Transaction Ticket:**
User defined ticket formatting

**Reports:**
Comprehensive report filters
Optional custom reports

**Export Data:**
File transfer via XML transaction; exported reports can be saved as PDF/XLS; configurable transaction data export in .csv file format

**Transaction Calculations:**
Unlimited product prices and discounts
Tax calculations (does not integrate directly to financial software)

**Software Support:**
Database configuration, field installation and training available
Phone support packages available
Contact Rice Lake for further options

**Approvals:**
NTEP CC 05-107

## Standard Features

- The OnTrak download has a very large file size (2.8 GB). Please make sure you have a high-bandwidth, reliable Internet connection before attempting to download. If you experience any difficulties do not hesitate to contact our technical sales department at 715-234-9171.
- Supports systems using Windows® 7 and up
- SQL Server® Express client/server database
- Comprehensive report filters
- User and administrator filters
- Backup and restore via included SQL Server Management Studio Express
- Unlimited charge/discount per product
- Ship or Receive mode for each transaction
- Exclusive database for: customer, hauler, truck, product, job, price/discount, tax, transaction
- Ethernet TCP/IP or RS-232 connectivity
- Supports VIRTUi/VIRTUi2® or Rice Lake weight indicators
- .CSV transaction file export
- Supports one or two scales

**APPROVALS**

## Optional Features

- Image capture with Ethernet camera TCP/IP (requires SQL server upgrade through Microsoft)
- Interface to non-Rice Lake weight indicators
- Custom reports
- Database configuration
- Field installation and training
- Factory phone support



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## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **104787** | OnTrak activation code | $1,395.00 |
| **101062** | OnTrak CD/ROM* | $80.00 |

*OnTrak trial at www.ricelake.com/ontrak*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **Consult** | Non-Rice Lake indicator interface | $195.00 |
| **Consult** | Custom reports | $175.00/hour |
| **Consult** | Database configuration | $175.00/hour |
| **FLD-INSTALL** | Field installation | $1,395.00/ weekday plus expenses |
| **104789** | Phone support, one hour | $125.00 |
| **104790** | Phone support, 10 hours | $1,250.00 |
| **104791** | Phone support, 25 hours | $3,125.00 |
| **104792** | Phone support, 50 hours | $6,250.00 |
| **101003** | Additional OnTrak manual | $55.00 |



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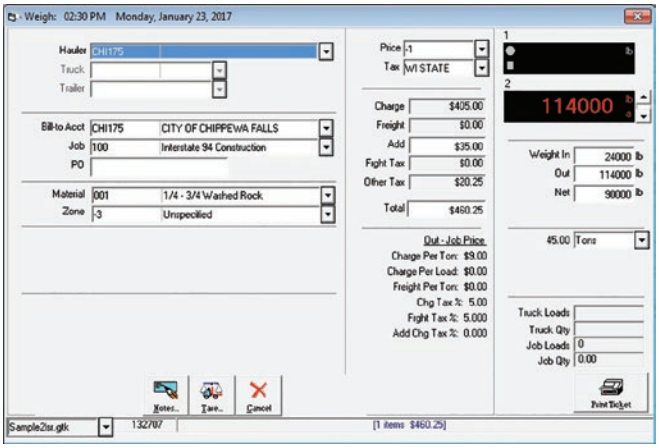
# TransAct® LE/TransAct/TransAct Plus

Truck Data Management Software

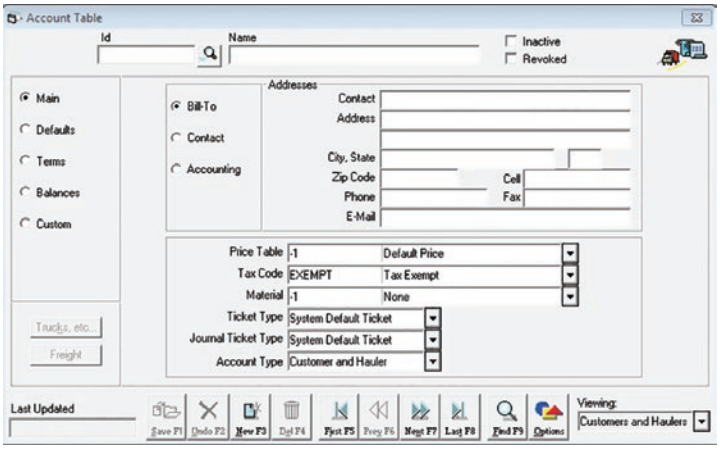
TRANSACT®

TRUCK DATA MANAGEMENT SOFTWARE

**APPROVALS**




*Truck/Container Cash Transaction*




*Customer Account Table*

| Standard Features | TransAct LE | TransAct | TransAct Plus |
|---|---|---|---|
| Intuitive menu-driven programs | X | X | X |
| Ticket editing, voiding and reprinting with the Quickscan utility | X | X | X |
| Report to screen, printer or export | X | X | X |
| Password protection | X | X | X |
| Easy-to-use graphic interface | X | X | X |
| Full mouse and keyboard support | X | X | X |
| Fault-tolerant data recovery to protect from system crashes | X | X | X |
| Bar code, magstripe and RFID interface | X | X | X |
| Full database backup and purge functions | X | X | X |
| Truck overweight warning | X | X | X |
| Predetermined keyboard and automatic tare entry | X | X | X |
| Interfaces to ticket, tape, dot-matrix and laser printers | X | X | X |
| Unlimited configurable ticket formats | X | X | X |
| Networkable | | X | X |
| Three-configurable tares | | X | X |
| Four-configurable categories | | X | X |
| Configurable product rates | | X | X |
| Multiple scale operation | | X | X |
| Multiple transactions per ticket | | X | X |
| Job table for contract purchases | | X | X |
| Accounts payable and receivable | | | X |
| Aging report showing current and extended balance 30, 60 and 90 days | | | X |
| Expandable reporting features | | | X |
| Credit weight limits | | | X |
| Prints customer invoices and statements with detailed transaction information | | | X |
| Full reporting by account, revenue, tonnage, material and transaction | | | X |
| Invoice processing is separate from statement processing | | | X |
| Two invoice options available (open item, balance forward) | | | X |
| Invoice and statement printing options (print summary report, print detailed report) | | | X |
| Reprint invoices, statements, summary reports or detailed reports by isolating ranges of invoice numbers or dates | | | X |



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## Specifications

**System Requirements:**
Windows 10® or operating system currently supported by Microsoft

**Hardware:**
Intel® AMD® Processor, 1 GHz or greater
1 GB of RAM or greater
1 GB available storage space (data dependent)

**Databases:**
Virtually unlimited with user-definable categories
Full database backup including configuration files

**Communications:**
Support for two printers with selectable drivers for most popular printers

**Transaction Ticket:**
Configurable weigh-in and weigh-out ticket formats, complete selection of variables and data types

**Reports:**
Full reporting capabilities by account, job, material, hauler, ticket, truck, container, trailer or date
Age reports 30, 60, 90 days

**Export Data:**
Reports can be saved in various formats such as XLS, PDF, Word or HTML
Export/Import function for transferring transaction data in non-networking applications

**Transaction Calculations:**
Definable product rates, charges, taxes and customer discounts
Configurable percentage weight reductions for moisture and dockage

**Accounting (TransAct Plus Version):**
Full accounting capabilities
Accounts payable
Accounts receivable
Balance/reconciliation

**Software Support:**
Rice Lake Weighing Systems offers field software support for TransAct LE/TransAct/TransAct Plus
Contact our service department for software support
Software support is a chargeable service

**Approvals:**
NTEP CC 97-034

TRANSACT®
TRUCK DATA MANAGEMENT SOFTWARE

## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| **79079** | TransAct LE version 6.5.01 | $1,385.00 |
| **43898** | TransAct version 6.5.01 | $2,345.00 |
| **98089** | Additional seat TransAct 6.5.01 (must be purchased with original 6.5.01) | $965.00 |
| **43899** | TransAct Plus version 6.5.01 | $4,645.00 |
| **98090** | Additional seat TransAct Plus 6.5.01 (must be purchased with original 6.5.01) | $1,785.00 |

*Note: TransAct demos can be downloaded from our website at www.ricelake.com*

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **15547** | Blunt end, 25-pin D-sub male RS-232 serial interface cable | $65.00 |
| **Interfaces to: 480, 680, 720, 820, 880, 920i and 1280** | | |
| **Consult** | Upgrade from TransAct LE to TransAct 6.5.01 | Consult |
| **Consult** | Upgrade from TransAct LE to TransAct Plus 6.5.01 | Consult |
| **Consult** | Upgrade from TransAct to TransAct Plus 6.5.01 | Consult |
| **Consult** | Quickbooks® interface for TransAct 6.5.01 | Consult |
| **Consult** | Quickbooks® interface for TransAct Plus 6.5.01 | Consult |
| **Consult** | 3rd party accounting software interface for TransAct 6.5.01 | Consult |
| **Consult** | 3rd party accounting software interface for TransAct Plus 6.5.01 | Consult |
| **98103** | Two hours configuration installation and training service | $385.00 |
| **98104** | Four hours configuration installation and training service | $765.00 |
| **98105** | Eight hours configuration installation and training service | $1,650.00 |





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# WeighVault®




## Standard Features

- Specialized PC software makes data entry easy
- Boost product ID storage to nearly limitless potential, and manage as many scales as necessary
- Eliminates front-panel entry of ID parameters
- Quickly program, edit and manage scales and each unique product ID right from your PC
- Stores the details of each transaction for either a single scale or multiple scales
- Collects data as transactions occur and provides detailed transaction and productivity reports
- Allows users to add, edit and access IDs over a network connection
- Reports can be exported in to word processing, spreadsheet or PDF format

## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **117358** | Software package, WeighVault for CW90/90X | $250.00 |
| **125546** | Software package, WeighVault for Counterpart | $250.00 |

## Specifications

**Minimum System Specifications:**
CW-90X or Counterpart®
800+ MHz Intel® compatible processor
1 GB of RAM
750 MB hard drive space
TCP/IP connections to a CW-90, CW-90X or Counterpart

**Recommended System Specifications:**
1.0 GHz Intel compatible processor
2 GB of RAM
4 GB hard drive space
Microsoft XP SP3 (32-bit), Windows Vista (x86 or x64), Windows 7 (x86 or x64), Windows 8 (64-bit), Windows 10 (64-bit)
TCP/IP connections to a CW-90, CW-90X or Counterpart

**Network Requirements:**
The PC running the WeighVault service must have a static IP address
Known IP address and subnet of the host PC; if connecting via WLAN, known network SSID and security settings (pass keys and phrases)
Network policy must allow passwords of six characters

## Counterpart Functions Only

- Data Registers:
  - ID code [32 characters]
  - Unit weight [6 places]
  - Tare weight [6 places]
  - Units field
  - Parts name [32 characters]
  - Part Description [32 characters]
  - Lot number [32 characters]
  - Location [12 characters]
  - Inventory Quantity [7 characters]
- Reports:
  - Part
  - Inventory
  - Activity
  - Location

## CW-90/90X Functions Only

- Part Fields:
  - Product ID [4 characters]
  - Two Descriptions Fields [32 Characters each]
  - Target
  - Tare
  - Over
  - Under
  - Units
- Reports:
  - Transaction
  - Productivity



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## Specifications

**System Requirements:**
Any version of Windows®
Any Windows PC
4MB of RAM
2MB of hard disk space

**Communications: WinWedge can collect** data on any serial port (RS-232 or RS-485) and even on multiple ports simultaneously. Also supports full device control.

**Software Support:**
Rice Lake Weighing Systems offers field software support for our software packages. Contact our Service Department for software support. Software support is a chargeable service.

WinWedge®
Serial Device Data Collection Software

## Standard Features

- Input scale or instrument data directly into Excel®, Access®, statistical software, LIMS, MMIs, or any Windows® application
- Transfers RS-232 data quickly, accurately and formatted to your exact specifications
- Powerful DDE options for collecting data from multiple devices simultaneously
- Extremely easy to set up and use

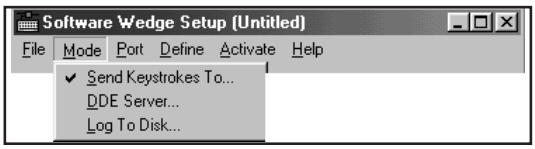
## WinWedge Pro Additional Features:

- Support for even the most complex devices and serial I/O with advanced data parsing, filtering, formatting and translation
- RS-232 data collection and I/O support, TCP/IP included with Pro version
- More advanced device control options
- Additional features such as math functions and virtual instrument mode

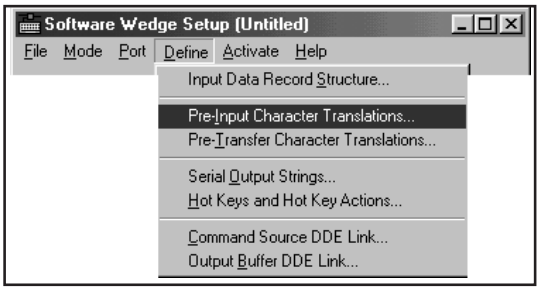
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **75351** | WinWedge® TAL software, 32 Std | $325.00 |
| **72304** | WinWedge® TAL software, 32 Pro, TCP/Wedge | $545.00 |

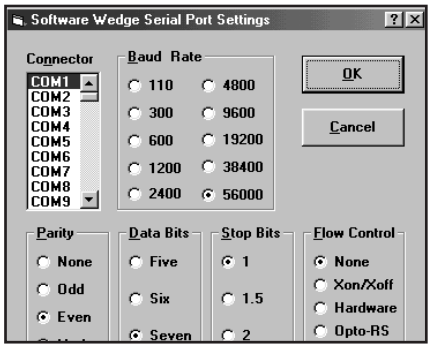
*1. Select how you want the data collected:*



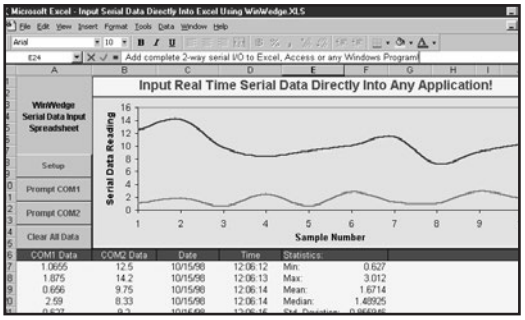

*2. Choose the communication parameters for your serial device:*




*3. Define how you want the serial data to be parsed, filtered, and translated:*




*4. Activate WinWedge and watch your serial data "pop" into your application:*






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# Vehicle Scales

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*Wireless Wheel Pad Scale*

**LOAD RANGER CART** ..... 1040
*Transport Cart*


**ESPAÑOL** | Visite **ricelake.com/spanish** para ver todos los materiales Rice Lake que están disponibles en español.


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# SURVIVOR® Truck and Rail Scales

For more information on Rice Lake's full line of SURVIVOR® truck and rail scales, please visit our website at www.ricelake.com or call 800-472-6703 and ask to speak with a heavy capacity team member.



## Truck Scales: www.ricelake.com/survivor

**SURVIVOR® OTR**
Heavy-duty, top access, concrete or steel deck scales

**SURVIVOR® OTR-LP**
Heavy-duty, steel deck, low profile scale for existing foundations

**SURVIVOR® OTR-XV**
Extreme duty, top access, concrete or steel deck scales

**SURVIVOR® ATV**
Heavy or extreme duty, top access portable steel deck scales

**SURVIVOR® SR**
Heavy-duty, low profile, concrete or steel deck siderail scales

**SURVIVOR® PT**
Heavy-duty, pit-type, concrete or steel deck scales

**SURVIVOR® Multi-Platform**

**SURVIVOR® ATV-M**
Portable, self-contained levertronic, steel deck scales

**SURVIVOR® PT-M**
Pit-type, levertronic, concrete deck scales

## Rail Scales: www.ricelake.com/railscales

**SURVIVOR® RT**
Pit-type, rail/truck combination scales

**SURVIVOR® PL**
Low profile, pitless scales

**RailBoss®**
Full- or double-draft rail scales



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## Specifications

**Load Cells:**
40,000 lb

**Accuracy:**
≤ 0.25% error typical, interchangeable with other gaged rail products

**Full Scale Capacity:**
320,000 lb

**Axle Capacity:**
80,000 lb

**Warranty:**
Two-year limited warranty

**Intrinsic Safety**
FM/cFM
Class I, II, III, Division 1, Groups ABCDEFG
T4

## Approvals

FM APPROVED




** Non Legal for Trade*

## RailBoss Standard Features

- 80,000 lb axle capacity
- 320,000 lb full scale capacity
- 40,000 lb rail section capacity
- 90 RA, 100 ARA-A, 115 RE, 132 RE, 133 RE or 136 RE rail sections
- 5 ft 10 in rail sections, pre-drilled for joint bars
- Quick-disconnect cable connection with MS style connector

**Full Draft Package Includes:**

- Eight 5 ft 10 in rail sections
- 30 ft of connecting cable per rail section
- Pre-drilled joint bars with connection hardware
- Two Rice Lake junction boxes with transient protection
- 30 ft of homerun cable

**Double Draft Package Includes:**

- Four 5 ft 10 in rail sections
- 30 ft of connection cable per rail section
- Pre-drilled joint bars with connection hardware
- One Rice Lake junction box with transient protection
- 30 ft of homerun cable

## Optional Features:

- Custom rail sizes are available
- 1280 Enterprise Series™ indicator with RailBoss software for full-draft or double-draft applications*
- 920i® indicator with RailBoss software for full-draft or double-draft applications*
- Custom cable lengths

** Non Legal for Trade*

## Calibration Unit - Standard Features

- 482 Legend Series indicator
- Attachment hardware for 90RA, 115RE and 132RE rails




*Railboss Calibration Tool*



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# RailBoss®

Full Draft and Double Draft

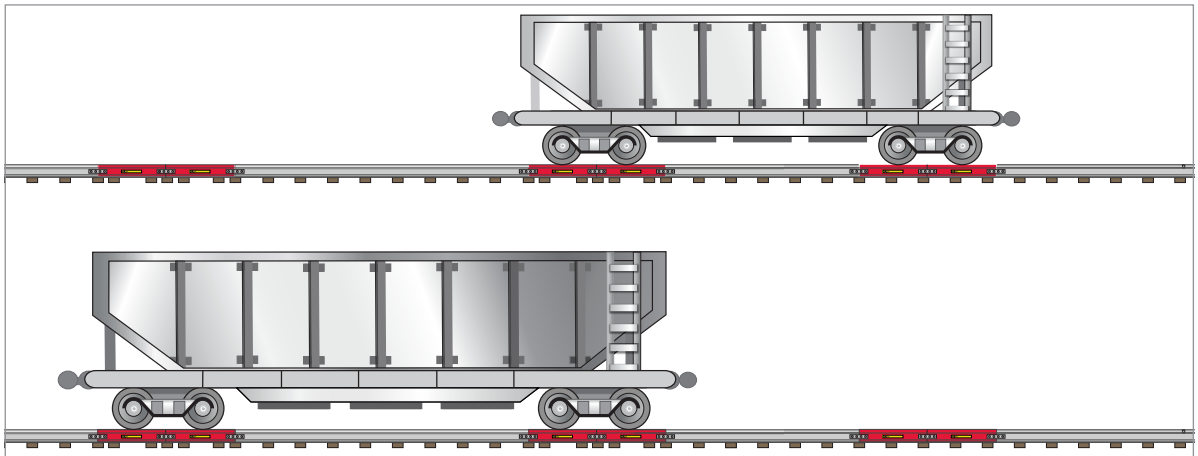
## Part Number/Price

| Part # | Description | Est. Weight | Price |
|---|---|---|---|
| **Kits** | | | |
| **164748** | RailBoss assembly kit, full draft, 90 RA rail V2 | 2,280 lb | $37,100.00 |
| **164749** | RailBoss assembly kit, double draft, 90 RA rail V2 | 1,150 lb | $18,500.00 |
| **193391** | RailBoss assembly kit, full draft, 100 ARA-A | 2,500 lb | $37,300.00 |
| **193390** | RailBoss assembly kit, double draft, 100 ARA-A | 1,100 lb | $18,600.00 |
| **162515** | RailBoss assembly kit, full draft, 115RE rail V2 | 2,550 lb | $37,300.00 |
| **162516** | RailBoss assembly kit, double draft, 115RE rail V2 | 1,275 lb | $18,600.00 |
| **164752** | RailBoss assembly kit, full draft, 132RE rail V2 | 2,800 lb | $37,700.00 |
| **164753** | RailBoss assembly kit, double draft, 132RE rail V2 | 1,400 lb | $18,900.00 |
| **194678** | RailBoss assembly kit, full draft, 133 AREA | 2,900 lb | $37,700.00 |
| **194679** | RailBoss assembly kit, double draft, 133 AREA | 1,450 lb | $18,900.00 |
| **169763** | RailBoss assembly kit, full draft, 136 AREA | 3,000 lb | $39,600.00 |
| **169762** | RailBoss assembly kit, double draft, 136 AREA | 1,500 lb | $19,900.00 |
| **Single Rail Gauge Assemblies** | | | |
| **164750** | RailBoss 90 lb gauge assembly V2 (does not include cable) | 290 lb | $4,825.00 |
| **193389** | RailBoss 100 ARA-A gauge assembly V2 (does not include cable) | 300 lb | $4,825.00 |
| **162517** | RailBoss 115 lb gauge assembly V2 (does not include cable) | 320 lb | $4,825.00 |
| **164754** | RailBoss 132 lb gauge assembly V2 (does not include cable) | 350 lb | $4,825.00 |
| **194677** | RailBoss 133 AREA gauge assembly V2 (does not include cable) | 370 lb | $4,825.00 |
| **169761** | RailBoss 136 AREA gauge assembly V2 (does not include cable) | 390 lb | $4,825.00 |
| **Instrumentation** | | | |
| **119073** | Single-channel 920i® indicator double draft with RailBoss software | 10 lb | $2,550.00 |
| **119072** | Dual-channel 920i® indicator full draft with RailBoss software | 10 lb | $2,650.00 |
| **126304** | Three-channel 920i® indicator full draft with RailBoss software | 10 lb | $2,725.00 |
| **190949** | Single-channel 1280 indicator double draft with RailBoss software | 11 lb | $3,350.00 |
| **190951** | Dual-channel 1280 indicator full draft with RailBoss software | 11 lb | $3,500.00 |
| **190952** | Three-channel 1280 indicator full draft with RailBoss software | 11 lb | $3,850.00 |
| **Hardware** | | | |
| **126391** | 90 RA 24 in short toe joint bar set, 4 sets required (2 bars with bolts and nuts) | 40 lb | $1,225.00 |
| **193468** | 100 ARA-A short tow joint bar set, 4 sets required (2 bars with bolts and nuts) | 45 lb | $1,095.00 |
| **126389** | 115 RE 24 in short toe joint bar set, 4 sets required (2 bars with bolts and nuts) | 50 lb | $950.00 |
| **126390** | 132 RE 24 in short toe joint bar set, 4 sets required (2 bars with bolts and nuts) | 60 lb | $1,095.00 |
| **194674** | 133 AREA short tow joint bar set, 4 sets required (2 bars with bolts and nuts) | 70 lb | $1,095.00 |
| **126390** | 136 AREA short tow joint bar set, 4 sets required (2 bars with bolts and nuts) | 80 lb | $1,095.00 |
| **126111** | 90 RA isolation joint bar set, 4 sets required (2 bars with bolts and nuts) | 40 lb | $995.00 |
| **112702** | 115 RE isolation joint bar set, 4 sets required (2 bars with bolts and nuts) | 50 lb | $995.00 |
| **119771** | 132 RE isolation joint bar set, 4 sets required (2 bars with bolts and nuts) | 60 lb | $995.00 |
| **194673** | 133 AREA isolation joint bar set, 4 sets required (2 bars with bolts and nuts) | 70 lb | $995.00 |
| **194344** | 136 AREA isolation joint bar set, 4 sets required (2 bars with bolts and nuts) | 80 lb | $1,095.00 |
| **198086** | 100RA Isolation Joint Bar Set, 4 sets required (2 bars with bolts and nuts) | | $995.00 |
| **163004** | 30 ft interface cable | - | $460.00 |
| **164873** | 60 ft interface cable | - | $625.00 |
| **164874** | 100 ft interface cable | - | $825.00 |
| **188909** | Adaptor cable from AWT Weighline to Rice Lake RailBoss | - | $495.00 |
| **Calibration Equipment** | | | |
| **115564** | RailBoss calibration/test unit | 300 lb | $9,500.00 |
| **119068** | Railboss calibration/test until rental | 300 lb | $700.00 |

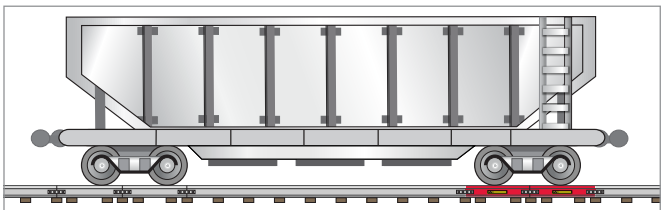
*NOTE: Instrumentation with RailBoss software must be ordered separately and is not included with the RailBoss assembly kit*



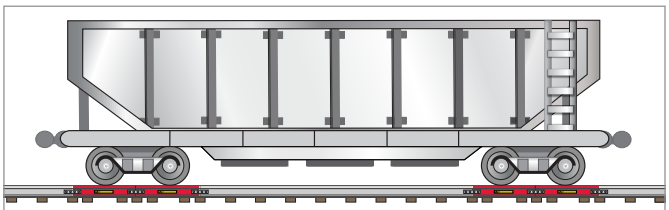
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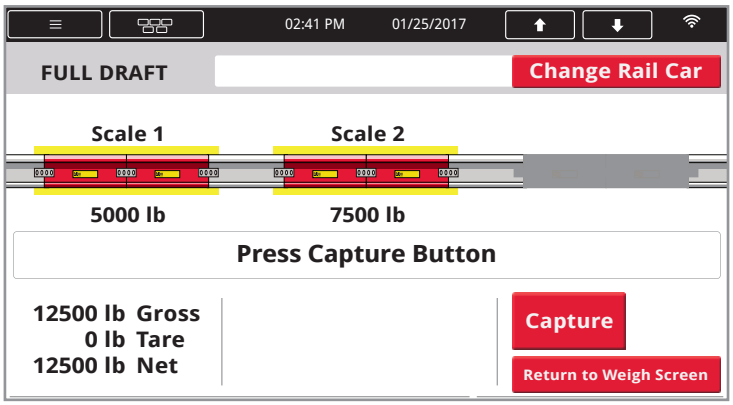
3-Channel Full Draft



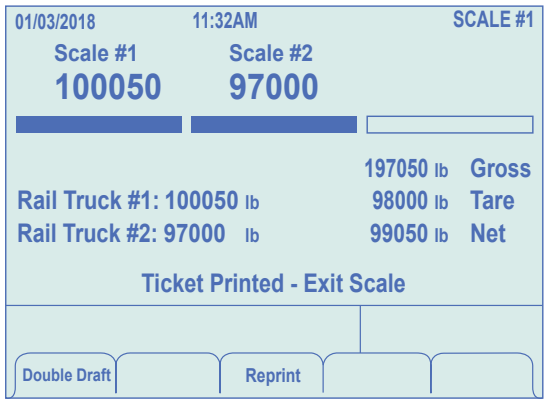
Double Draft



Full Draft




Full-draft RailBoss software display with a 1280 indicator




Double-draft RailBoss software display with a 920i indicator

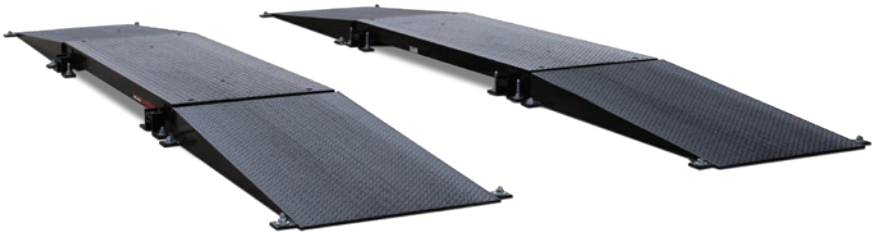




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# RoughDeck® AX

Tandem Axle Scale



## Specifications

**End Loading Capacity:**
133% full scale at 30,000 lb

**Warranty:**
Weldment five years, load cells two years, all other components one-year limited warranty

## Standard Features

- System includes two platforms with anchor brackets and four on/off ramps with anchor tabs (anchor bolts not included)

**Scale**

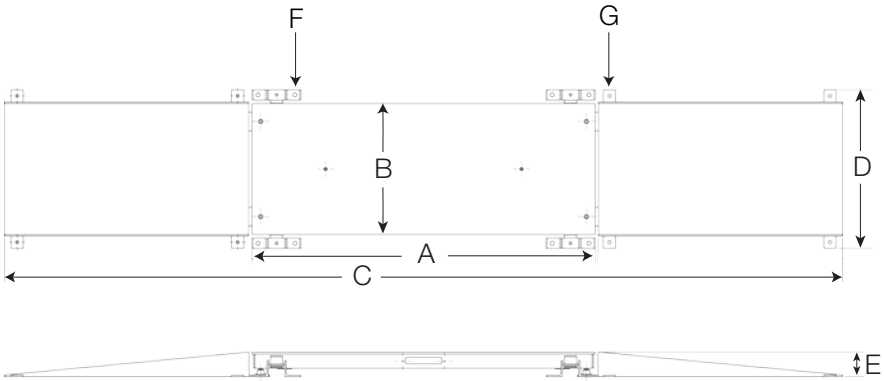
- (W x L x H): 32 x 84 x 6 in
- Axle capacity - tandem platforms - 60,000 lb (two scales 30,000 lb each)
- Includes (2) 3/4-10 NC eye bolts
- Contains four environmentally sealed, IP67 20,000 lb single-ended shear beam load cells per platform
- Treaded top plate with side access junction box
- JB4SS TuffSeal® signal trim junction box
- Top access foot adjustment holes
- Carbon steel captured ball feet
- 20 ft SURVIVOR® EL147HE cable
- Non-Legal for Trade

**Ramps**

- (W x L x H) 32 x 60 x 6 in
- Treaded top plate

## Part Number/Price

| Part # | Description | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **107637** | 60,000 lb (30,000 lb each) | 32 x 84 x 6 in | 3,600 lb | $13,695.00 |
| **RoughDeck AX Bundle Package** | | | | |
| **153058** | 60,000 lb (30,000 lb each) includes 920i Universal 115 VAC with short axle program, 4 in LaserLight 2 with Stop/Go light, TM-U295 and RS-232 cable | 32 x 84 x 6 in | 3,700 lb | $17,775.00 |




| Dimensions | |
|---|---|
| A | 84.0 in (213.36 cm) |
| B | 32.0 in (81.28 cm) |
| C | 205.5 in (521.97 cm) |
| D | 38.75 in (98.42 cm) |
| E | 6.0 in (15.24 cm) |
| F | 1.0 in (2.54 cm) |
| G | 0.75 in (1.91 cm) |



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## Specifications

**Construction:**
Steel or Aluminum

**Accuracy:**
±3%

**End Loading Capacity:**
100% full scale at 30,000 lb
75% full scale at 40,000 lb

**Warranty:**
One-year limited warranty



## Standard Features

- System includes two platforms with anchor brackets and four on/off ramps with anchor tabs (anchor bolts not included)

**Scale**

- Sizes: 7, 12 and 14 ft lengths
- Construction: Steel or aluminum
- Axle capacity - tandem platforms - 60,000 or 80,000 lb (30,000 lb or 40,000 lb each)
- Includes (4) 5/8-11 NC eye bolts
- Contains two load cells per platform
- Treaded top plate with four lifting eyes
- JB4SS TuffSeal® signal trim junction box
- 10 ft EL146HE Interconnect cable with MS-type connectors to go between weigh pads
- 50 ft EL147HE cable to connect weigh pad to indicator
- Non-Legal for Trade

**Ramps**

- (W x L): 32 x 25.25 in
- Steel or aluminum

## Part Number/Price

| Part # | Description | Dimensions | Est. Weight | Price |
|---|---|---|---|---|
| **Steel Construction - Painted Black** | | | | |
| **112330** | 60,000 lb (30,000 lb each) | 2.5 ft x 7 ft x 5.63 in | 2,500 lb | $12,375.00 |
| **111748** | 80,000 lb (40,000 lb each) | 2.5 ft x 12 ft x 5.63 in | 4,400 lb | $14,650.00 |
| **112328** | 80,000 lb (40,000 lb each) | 2.5 ft x 14 ft x 5.75 in | 5,200 lb | $19,435.00 |
| **Steel Construction - AX3040 Bundle Package** | | | | |
| **153059** | 60,000 lb (30,000 lb each) includes 920i Universal 115 VAC with short axle program, SURVIVOR® 4 in LaserLight with Stop/Go light, TM U295 and RS-232 cable | 2.5 ft x 7 ft x 5.63 in | 2,600 lb | $16,455.00 |
| **153060** | 80,000 lb (40,000 lb each) includes 920i Universal 115 VAC with short axle program, SURVIVOR® 4 in LaserLight with Stop/Go light, TM U295 and RS-232 cable | 2.5 ft x 12 ft x 5.63 in | 4,500 lb | $18,730.00 |
| **153061** | 80,000 lb (40,000 lb each) includes 920i Universal 115 VAC with short axle program, SURVIVOR® 4 in LaserLight with Stop/Go light, TM U295 and RS-232 cable | 2.5 ft x 14 ft x 5.75 in | 5,300 lb | $23,515.00 |
| **Aluminum Construction - Glass Beaded** | | | | |
| **112329** | 60,000 lb (30,000 lb each) | 2.5 ft x 7 ft x 5.63 in | 1,250 lb | $15,895.00 |
| **Aluminum Construction - AX3040 Bundle Package** | | | | |
| **153062** | 60,000 lb (30,000 lb each) includes 920i Universal 115 VAC with short axle program, 4 in LaserLight 2 with Stop/Go light, TM U295 and RS-232 cable | 2.5 ft x 7 ft x 5.63 in | 1,350 lb | $19,075.00 |



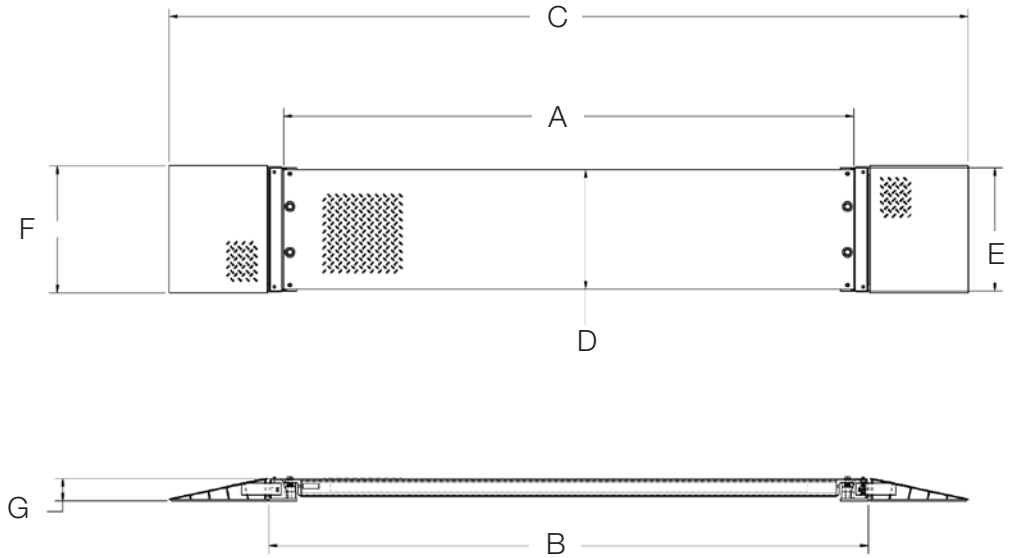


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# AX3040

Axle Scale

| Dimensions | | | |
|---|---|---|---|
| **7 foot steel** | | | |
| A | 83.60 in (2,123.44 mm) | E | 31.00 in (787.4 mm) |
| B | 90.90 in (2,308.86 mm) | F | 32.00 in (812.8 mm) |
| C | 141.25 in (3,587.75 mm) | G | 5.63 in (143.0 mm) |
| D | 30.00 in (762.00 mm) | | |
| **12 foot steel** | | | |
| A | 143.60 in (3,647.44 mm) | E | 31.00 in (787.4 mm) |
| B | 150.90 in (3,832.86 mm) | F | 32.00 in (812.8 mm) |
| C | 201.2 in (5,111.75 mm) | G | 5.63 in (143.0 mm) |
| D | 30.00 in (762.00 mm) | | |
| **14 foot steel** | | | |
| A | 167.60 in (4,257.04 mm) | E | 31.00 in (787.4 mm) |
| B | 174.90 in (4,442.46 mm) | F | 32.00 in (812.8 mm) |
| C | 225.25 in (5,721.35 mm) | G | 5.75 in (146.05 mm) |
| D | 30.00 in (762.00 mm) | | |
| **7 foot aluminum** | | | |
| A | 83.60 in (2,123.44 mm) | E | 31.00 in (787.4 mm) |
| B | 90.90 in (2,308.86 mm) | F | 32.00 in (812.8 mm) |
| C | 141.25 in (3,587.75 mm) | G | 5.63 in (143.0 mm) |
| D | 30.00 in (762.00 mm) | | |






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# RoughDeck® AX-1
Axle Scale

## Specifications

**End Loading Capacity:**
80% full scale at 50,000 lb

**Warranty:**
Weldment five years, load cells two years, all other components one-year limited warranty




## Standard Features

**Scale**

- Sizes: 7.5, 9.5 or 11.5 ft lengths
- Capacity: 50,000 lb
- Includes (2) 1-8 NC eye bolts
- Contains four environmentally sealed, IP67, 20,000 lb single-ended, shear beam load cells
- Treaded top plate
- JB4SS TuffSeal® signal trim top access junction box
- Top access foot adjustment holes
- Carbon steel captured ball feet
- 20 ft SURVIVOR® EL147HE cable
- Non-Legal for Trade

**Options:**

- Ramps: 10 x 4 ft, treaded top plate
- Scale frame

## Part Number/Price

*Scale shown with optional ramps*

| Part # | Dimensions (W x L x H) | Capacity | Est. Weight | Price |
|---|---|---|---|---|
| **Scale only** | | | | |
| **169649** | 115.16 x 90 x 6 in | 50,000 lb | 3,350 lb | $13,795.00 |
| **169650** | 115.16 x 114 x 6 in | 50,000 lb | 4,150 lb | $15,525.00 |
| **169651** | 115.16 x 138 x 6 in | 50,000 lb | 5,500 lb | $17,250.00 |
| **Scale, bundled with scale frame** | | | | |
| **169645** | 120.75 x 95.75 x 6.75 in | 50,000 lb | 4,350 lb | $15,020.00 |
| **169647** | 120.75 x 119.75 x 6.75 in | 50,000 lb | 5,400 lb | $16,770.00 |
| **169648** | 120.75 x 143.75 x 6.75 in | 50,000 lb | 7,000 lb | $18,525.00 |

## Options/Accessories

| Part # | Dimensions (W x L x H) | Est. Weight | Price |
|---|---|---|---|
| **Scale frame only** | | | |
| **169652** | 120.75 x 95.75 x 6.75 in | 1,000 lb | $1,640.00 |
| **169653** | 120.75 x 119.75 x 6.75 in | 1,250 lb | $1,895.00 |
| **169654** | 120.75 x 143.75 x 6.75 in | 1,500 lb | $2,100.00 |
| **Ramp, attaches to scale frame** | | | |
| **169655** | 10 x 4 ft, single ramp | 1,600 lb | $1,840.00 |
| **169656** | 10 x 4 ft, ramp set | 3,200 lb | $3,680.00 |
| **Ramp, attaches to scale** | | | |
| **169657** | 10 x 4 ft, single ramp | 1,675 lb | $1,840.00 |
| **169658** | 10 x 4 ft, ramp set | 3,350 lb | $3,680.00 |

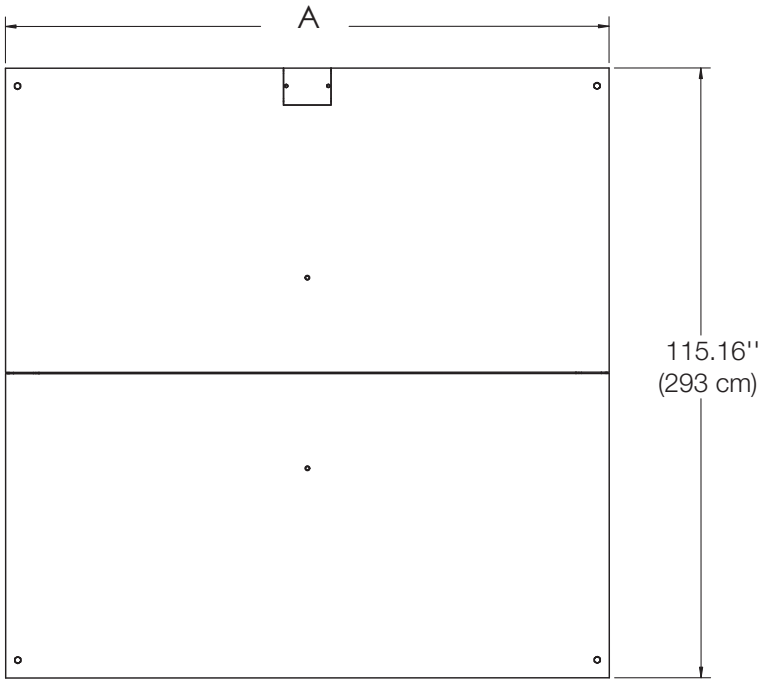


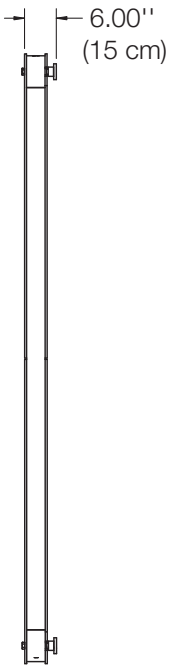


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# RoughDeck® AX-1

Axle Scale

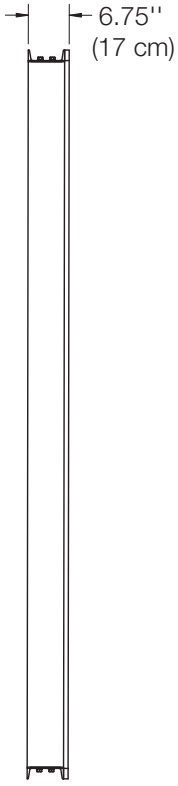



| Part Number | A |
|---|---|
| 169649 | 90 in |
| 169650 | 114 in |
| 169651 | 138 in |

*Scale*



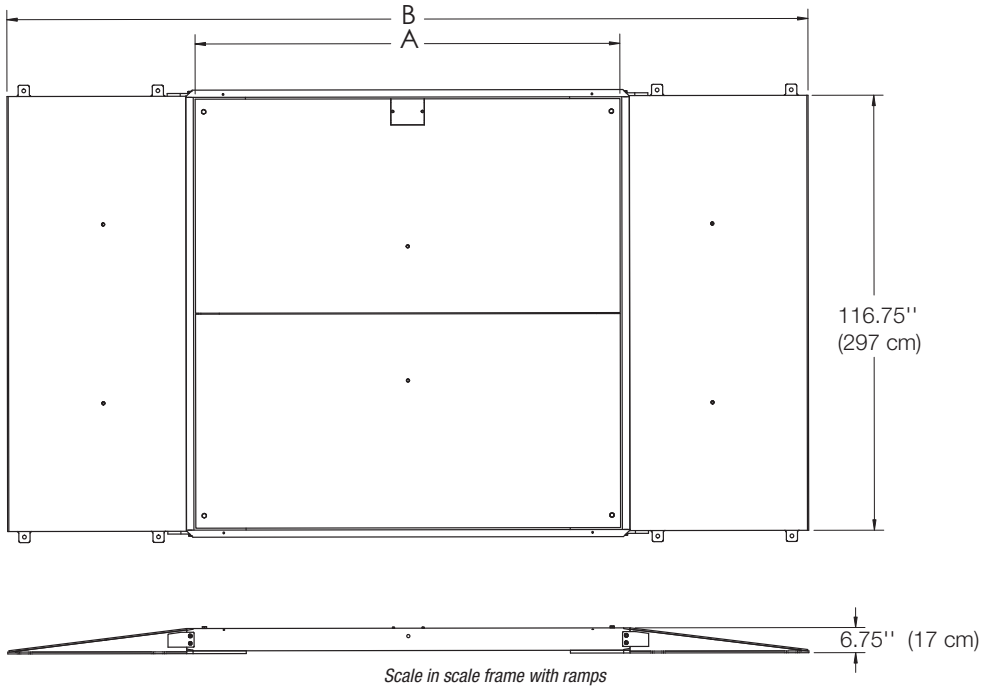




| Part Number | A1 |
|---|---|
| 169652 | 95.75 in |
| 169653 | 119.75 in |
| 169654 | 143.75 in |

*Scale frame*

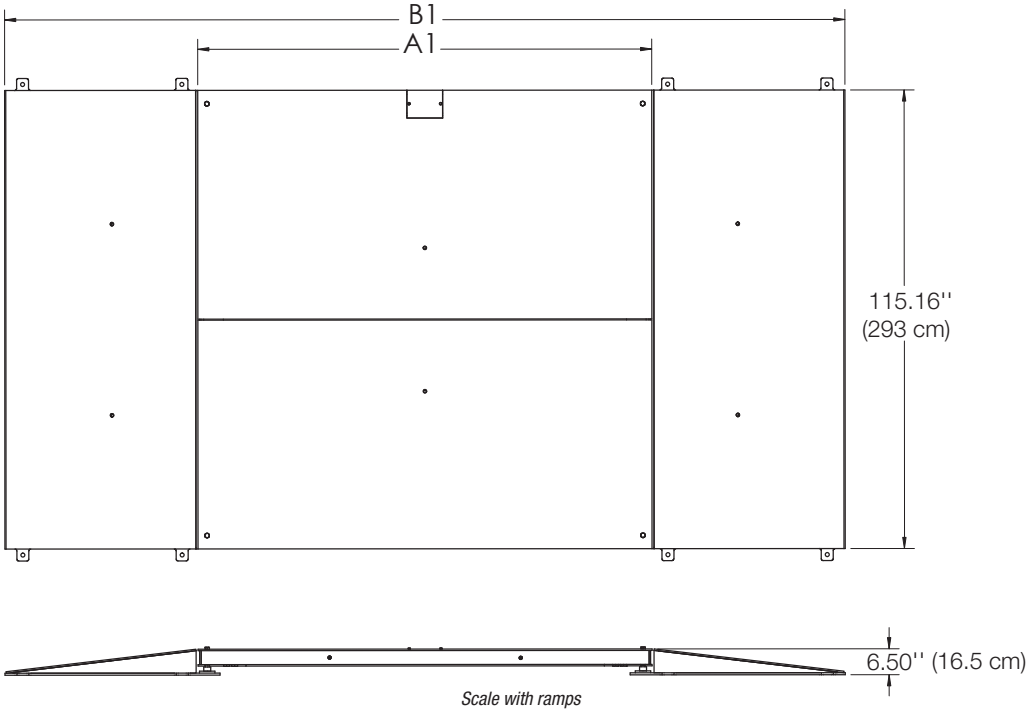


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*Scale in scale frame with ramps*

| Part Number | A | B |
|---|---|---|
| 169645 | 90 in | 191.75 in |
| 169647 | 114 in | 215.75 in |
| 169648 | 138 in | 239.75 in |




*Scale with ramps*

| Part Number | A1 | B1 |
|---|---|---|
| 169649 | 90 in | 187 in |
| 169650 | 114 in | 211 in |
| 169651 | 138 in | 235 in |



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# Load Ranger

Wireless Wheel Pad Scale



## Standard Features

- Up to 6 individual pads (3 sets) per system, completely wireless
- Up to 14 individual pads (7 sets) maximum per system, pairs must be joined with Y-cables and communicate wirelessly to the indicator
- Industrial Bluetooth® radio module to communicate with indicator
- Integrated wheels and nonslip rubber under platform
- Internal rechargeable battery with 40 hours of battery life
- Built-in indicator on each scale with 1 in character display
- IP67 rating
- Cover plate protects built-in indicator

**Optional remote indicator with integrated printer in carrying case:**

- Carrying case: 1 ft x 1 ft 6 in x 7 in (325 mm x 460 mm x 170 mm)
- Backlit graphic display with touchscreen technology
- Internal battery with 10 hours of battery life
- Real-time clock
- Permanent data storage
- 24-bit A/D converter, up to 2,300 conversions per second
- One RS-232 serial port
- Thermal printer
- ABS transport case

**Wheel weighing software:**

- Multi-scale function mode weighs with up to 14 individual pads (seven sets)
- Static axle weighing function, up to two channels
- Calculation of center of gravity
- Semi-automatic and preset tare
- Selection of displayed data on LCD touchscreen
- Customizable keyboard
- 15 customizable and printable text IDs
- 1,000 field database
- Programmable printout from keyboard
- Print and display list of last 3,500 vehicles

## Approvals

*NTEP Class IIII approved for law enforcement. Select sizes and capacities only, consult factory for more information.*

## Specifications

**Construction:**
Aluminum alloy

**Display:**
1 in character display on each scale

**Platform Dimensions (l x w x h):**
Load Ranger RF-MD: 1 ft 10 in x 1 ft 8 in x 2.28 in (564 mm x 511 mm x 58 mm)
Load Ranger RF-WD:2 ft 6 in x 1 ft 10 in x 2.28 in (750 mm x 561 mm x 58 mm)
Load Ranger RF-XWD: 3 ft 1 in x 2 ft x 2.28 in (950 mm x 611 mm x 59 mm)

**System Accuracy:**
0.05% of rated capacity

**Power Supply:**
Rechargeable battery
Approximately 40 hours of battery life
Includes uL approved AC wall adaptor

**Loading Surface (l x w):**
Load Ranger RF-MD: 1 ft 3 in x 1 ft 4 in (403 mm x 400 mm)
Load Ranger RF-WD: 1 ft 11 in x 1 ft 6 in (603 mm x 450 mm)
Load Ranger RF-XWD: 2 ft 5 in x 1 ft 8 in (748 mm x 500 mm)

**Operating Temperature:**
14°F to 104°F (-10°C to 40°C)

**Storage Temperature:**
-4°F to 140°F (-20°C to 60°C)

**Warranty:**
Two-year limited warranty

**Approvals:**
NTEP CC 20-003P Class IIII
(Select sizes and capacities only, consult factory for more information)

## Options/Accessories

- Leveling modules
- Pit frames for semi-permanent floor installations
- Aluminum ramps
- NTEP Class IIII Certified Versions *(Select sizes and capacities only, consult factory for more info)*
- Storage Carts *(Consult factory for more info)*



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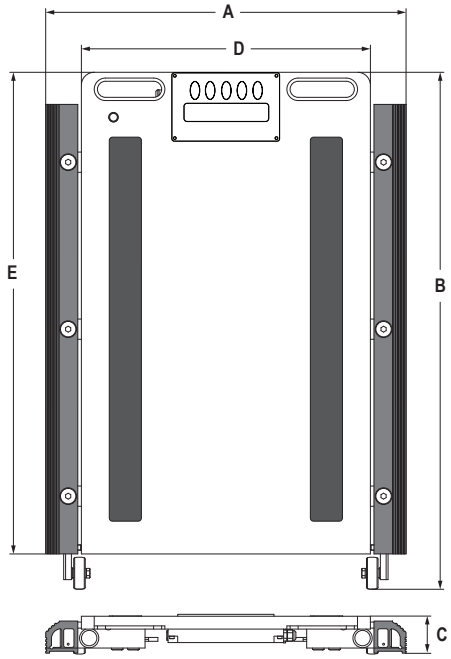
## Part Number/Price

| Part # | Description | Price |
|---|---|---|
| **182099** | Remote indicator with integrated printer in carrying case | $1,595.00 |

| Part # | Size | Graduation | Price |
|---|---|---|---|
| **Load Ranger RF-MD** | | | |
| **181843** | 1 ft 10 in x 1 ft 8 in x 2.28 in (564 mm x 511 mm x 58 mm) | 3,000 x 1 lb | $1,745.00 |
| **181844** | 1 ft 10 in x 1 ft 8 in x 2.28 in (564 mm x 511 mm x 58 mm) | 6,500 x 2 lb | $1,745.00 |
| **181845** | 1 ft 10 in x 1 ft 8 in x 2.28 in (564 mm x 511 mm x 58 mm) | 13,000 x 5 lb | $1,745.00 |
| **181846** | 1 ft 10 in x 1 ft 8 in x 2.28 in (564 mm x 511 mm x 58 mm) | 22,000 x 10 lb | $1,880.00 |
| **181847** | 1 ft 10 in x 1 ft 8 in x 2.28 in (564 mm x 511 mm x 58 mm) | 33,000 x 10 lb | $1,880.00 |
| **Load Ranger RF-WD** | | | |
| **181848** | 2 ft 6 in x 1 ft 10 in x 2.28 in (750 mm x 561 mm x 58 mm) | 13,000 x 5 lb | $2,165.00 |
| **181849** | 2 ft 6 in x 1 ft 10 in x 2.28 in (750 mm x 561 mm x 58 mm) | 22,000 x 10 lb | $2,165.00 |
| **181850** | 2 ft 6 in x 1 ft 10 in x 2.28 in (750 mm x 561 mm x 58 mm) | 33,000 x 10 lb | $2,165.00 |
| **202100** | 2 ft 6 in x 1 ft 10 in x 2.28 in (750 mm x 561 mm x 58 mm) (NTEP Class IIII) | 22,000 x 20 lb | $2,650.00 |
| **Load Ranger RF-XWD** | | | |
| **181851** | 3 ft 1 in x 2 ft x 2.28 in (950 mm x 611 mm x 59 mm) | 13,000 x 5 lb | $2,650.00 |
| **181852** | 3 ft 1 in x 2 ft x 2.28 in (950 mm x 611 mm x 59 mm) | 22,000 x 10 lb | $2,650.00 |
| **181853** | 3 ft 1 in x 2 ft x 2.28 in (950 mm x 611 mm x 59 mm) | 33,000 x 10 lb | $2,650.00 |
| **181854** | 3 ft 1 in x 2 ft x 2.28 in (950 mm x 611 mm x 59 mm) | 44,000 x 20 lb | $2,650.00 |

## Options/Accessories

| Part # | Description | Price |
|---|---|---|
| **190916** | RS-485 cable used to connect wheel pad directly to indicator | $175.00 |
| **188744** | RS-485 cable, 10 m, used in a 7 pad or more hybrid-wireless system to join two pads together | $175.00 |
| **181881** | Aluminum Ramp for Load Ranger MD Models (single ramp only) | $250.00 |
| **181882** | Aluminum Ramp for Load Ranger WD Models (single ramp only) | $285.00 |
| **181883** | Aluminum Ramp for Load Ranger XWD Models (single ramp only) | $310.00 |
| **182053** | Printer paper roll, 57 mm x 30m, 12 mm core 51 mm OD | $2.00 |
| **Consult** | Storage carts | Consult |




| Dimensions | | | |
|---|---|---|---|
| | RF-MD | RF-WD | RF-XWD |
| A | 1 ft 8 in | 1 ft 10in | 2 ft |
| B | 2ft | 2ft 8in | 3ft 3in |
| C | 2.28 in | 2.28 in | 2.28 in |
| D | 1 ft 4 in | 1 ft 6in | 1 ft 8 in |
| E | 1 ft 10 in | 2 ft 6 in | 3 ft 1 in |



*Optional aluminum ramps*






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# NEW
# Load Ranger Cart
Transport Cart



## Specifications

**Warranty:**
One-year limited warranty

## Standard Features

- Can hold up to six Load Ranger wheel pads (with or without optional ramps), and one Load Ranger remote indicator case.
- Two swivel, locking casters and two rigid casters
- Painted mild steel
- Integrated forklift channels
- Cam latch closures

## Options/Accessories

- AC power strip for charging

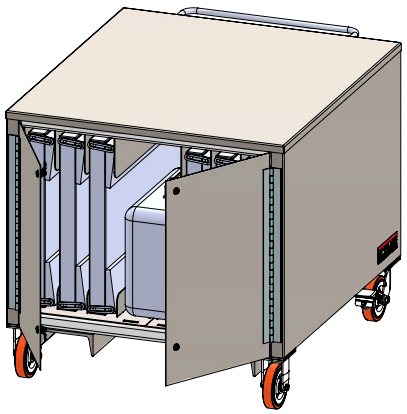
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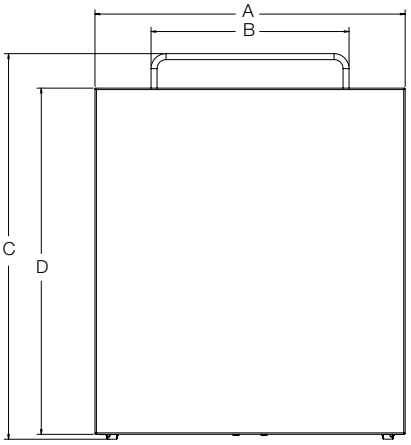
| Part # | Description | Price |
|---|---|---|
| **203078** | Load Ranger Transport Cart for up to 6 Load Ranger Wheel pads | $2,995.00 |

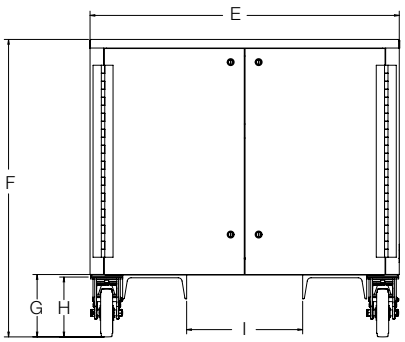
## Options/Accessories

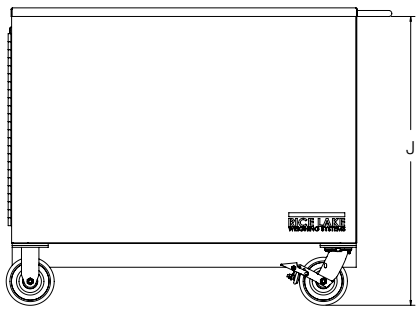
| Part # | Description | Price |
|---|---|---|
| **Consult** | AC power strip option | Consult |

| Dimensions | | | |
|---|---|---|---|
| A | 38.77 in (98.5 cm) | F | 37.18 in (94.4 cm) |
| B | 24.75 in (62.9 cm) | G | 7.80 in (19.8 cm) |
| C | 48.20 in (122.4 cm) | H | 7.48 in (19.0 cm) |
| D | 43.27 in (109.9 cm) | I | 14.50 in (36.8 cm) |
| E | 38.65 in (98.2 cm) | J | 36.10 in (91.7 cm) |








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# EMERGENCY SUPPORT

Your service doesn't stop when the office is closed and neither does ours. **Simply call 800-472-6703 and press 1** to reach on-call personnel outside of our normal business hours for emergency support.

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