

# Product Guide



**Measurement Systems  
International™**

A RICE LAKE WEIGHING SYSTEMS COMPANY

Measurement Systems International (MSI) crane scale products have been popular for decades in industries from aerospace to iron and steel, and are now available exclusively through Rice Lake Weighing Systems. MSI's comprehensive line of quality industrial electronic crane scales, tension dynamometers, aircraft load monitoring instrumentation, RF wireless data acquisition and signal processing systems are sold throughout the world by a qualified, factory-trained, distribution network.

## Contact Information

### Measurement Systems International

**Phone** 800-874-4320  
**Fax** 206-244-8470  
**Email** [prodinfo@msiscales.com](mailto:prodinfo@msiscales.com)  
**Internet** [www.msiscales.com](http://www.msiscales.com)

### Rice Lake Weighing Systems and other facilities

#### Toll Free

USA 800-472-6703  
Canada/Mexico 800-321-6703

**Local** 715-234-9171

**Fax** 715-234-6967

**Email** [prodinfo@ricelake.com](mailto:prodinfo@ricelake.com)

#### Internet

Corporate [www.ricelake.com](http://www.ricelake.com)  
[m.ricelake.com](http://m.ricelake.com)

Europe [www.ricelake.eu](http://www.ricelake.eu)

Latin America [www.ricelake.mx](http://www.ricelake.mx)

### Customer Assistance and Service Department Hours

**Weekdays** 6:30 AM to 7:00 PM (Central Time)

*Customer assistance available in English, Spanish, and French*



## Table of Contents

### Crane Scales

- 4** MSI-3460 Challenger 3  
MSI-4260 Port-A-Weigh  
MSI-4300 Port-A-Weigh Plus
- 6** MSI-6260CS Trans-Weigh CellScale RF  
MSI-9300 Port-A-Weigh Plus CellScale RF  
MSI-9300HT Hi-Torque  
Port-A-Weigh Plus CellScale RF

### Dynamometers

- 8** MSI-7300 Dyna-Link 2

### Indicators/Remote Displays

- 10** MSI-8000 RF Remote Display  
MSI-8000HD RF Indicator/  
RF Remote Display  
MSI-9750A CellScale RF Portable Indicator
- 12** MSI-9850 CellScale RF Digital Indicator  
MSI Scoreboards

### Indicators/Remote Displays

- 12** Clevis Load Pin Sensors

### CellScale Network Solutions

- 14** MSI-9000 CellScale Wireless  
Weighing Solutions  
MSI-9002 Breakout Summing Box  
MSI-9008 Multiplexer  
MSI-9020 CellModem

# Crane Scales

## MSI-3460 Challenger 3

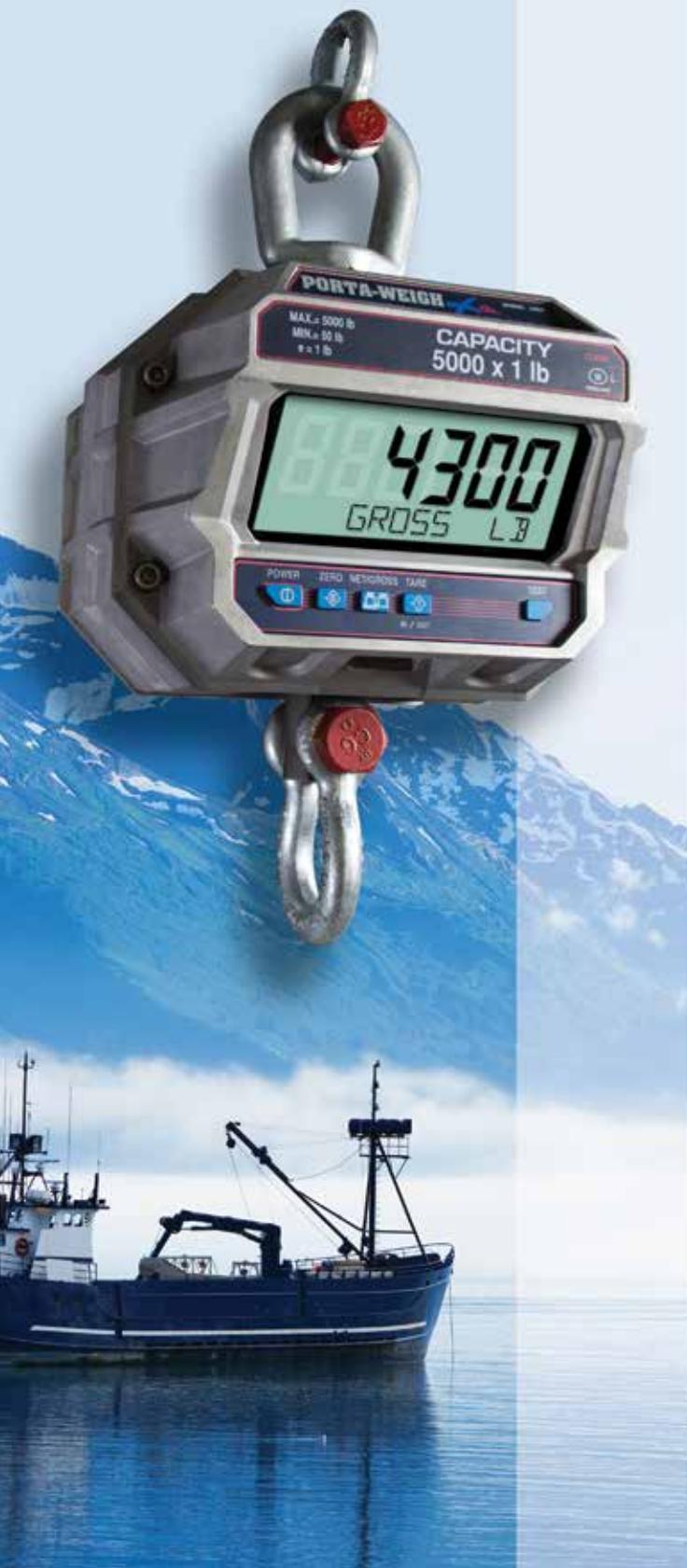
MSI's latest instrumentation technology, the ScaleCore™ measurement module, is the central enhancement of the Challenger 3, bringing industry-leading weighing features of previous Challenger designs to a whole new level. The light capacity Challenger 3 crane scale is commonly used in indoor shop and work center applications.

## MSI-4260 Port-A-Weigh

For medium- to heavy-capacity and duty-cycle needs, the MSI-4260 Port-A-Weigh has an established reputation as the industry standard in overhead weighing. ScaleCore™ technology brings this next-generation Port-A-Weigh to a new level of weighing class. MSI-4260 meets or exceeds all industrial safety requirements, including OSHA, ANSI and ASME, and is an economical choice for many bridge crane, foundry and in-process material handling needs. Common applications include general warehouse, shipping/receiving, bulk materials, pulp/paper, steel and other metals, and petrochemical (FM/ATEX approval pending).

## MSI-4300 Port-A-Weigh Plus

The MSI-4300 is an established crane scale for medium- to heavy-capacity and duty-cycle applications requiring a large LCD display. Featuring a marine-grade alloy enclosure that is ideal for fishing, shipyard and marine environments, the MSI-4300 Port-A-Weigh Plus endures season after season.



# Crane Scales

## MSI-6260CS Trans-Weigh CellScale RF

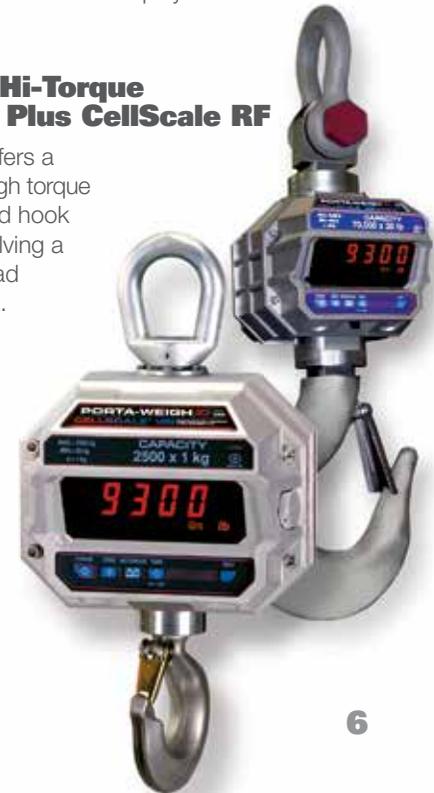
The MSI-6260CS RF is ideal for medium- to heavy-capacity and duty-cycle applications not requiring a local display. An economical solution for applications demanding remote RF weight indication and system control, MSI's Trans-Weigh CellScale RF brings heavy-duty performance with full communication capability. The MSI-6260CS can also be paired with additional CellScale crane scales for applications that require more than one pick point to attain a summed load.

## MSI-9300 Port-A-Weigh Plus CellScale RF

The MSI-9300 offers the ultimate choice in medium- to heavy-capacity and duty-cycle applications when a large local 1.2-inch bright red LED display and remote RF connectivity is required. The MSI-9300 can also be paired with additional CellScale crane scales for applications that require more than one pick point to attain a summed load. The MSI-9300 is used as the master device to display the total load.

## MSI-9300HT Hi-Torque Port-A-Weigh Plus CellScale RF

The MSI-9300HT offers a unique and robust high torque load train with a fixed hook for applications involving a powered rotating load block or attachment. The MSI-9300 is commonly used in forestry, steel coil, and energy applications.



# Dynamometers

## MSI-7300 Dyna-Link 2

Constructed of high-quality aircraft-grade aluminum, the battery-powered MSI Dyna-Link 2 is light and portable with NEMA4/IP65-rated environmental protection. ScaleCore™ technology brings advanced measurement capability. Available in capacities from 0.5 to 250 tons, MSI's Dyna-Link 2 meets or exceeds all safety design standards in the industry, with an ultimate safety factor of up to 7:1. The rugged, lightweight, Dyna-Link 2 is commonly used for load tests, rigging, crane and elevator certification, and in the utilities industry.



# Indicators/ Remote Displays

## MSI-8000 RF Remote Display

The MSI-8000 is a full-featured wireless remote display for operation with MSI models: MSI-3460, MSI-4260 and MSI-7300. Compact and portable, the MSI-8000's NEMA 4/IP65 industrial-grade enclosure makes it ideal for use in nearly any operating environment. The MSI-8000 operates on a license-free 2.4 GHz frequency with a typical application range exceeding 100 feet (33m), keeping the operator's safety and convenience in the forefront.

## MSI-8000HD RF Indicator/ RF Remote Display

The MSI-8000HD is the heavy-duty version of the reputable MSI-8000 RF handheld remote display. The milled anodized aluminum, IP68-rated enclosure is mountable in either a direct panel mount or optional tilt stand. Fully ergonomic with user-definable function keys and a bold six-digit one-inch display, operators will find the MSI-8000HD easy to use and read. Fully compatible with all MSI ScaleCore-based crane scales and dynamometers, the MSI-8000HD provides the utmost in versatility for any application.

## MSI-9750A CellScale RF Portable Indicator

For optimal communication and control, choose the MSI-9750A handheld indicator for remote operation of MSI's CellScale crane scale models, including the MSI-6260CS, MSI-9300, MSI-9300HT and MSI-9000 CellScale. This RF wireless indicator/controller contains full-scale features to remotely monitor in-process material weighing through the multi-scale display and control panel. Add a bar code scanner through the serial port to quickly gather comprehensive data for the entire process.

# Indicators and Remote Displays

## MSI-9850 CellScale RF Digital Indicator

This full-featured, industrial-grade indicator from MSI has a robust product ID and statistic storage capability. Internal setpoint relays maximize control, while serial and Ethernet outputs optimize data communication to a variety of CellScale devices.

## MSI Scoreboards

MSI scoreboards are an accessory of the CellScale wireless weighing systems that provide remote indication of weight information. The wireless RF remote displays feature high intensity red or green LEDs that are designed to last 100,000 hours and offer a wide viewing angle that can be read in direct sunlight.

# Load Pins

## Clevis Load Pin Sensors

A key component for MSI's integrated overhead weighing solutions is the Clevis Load Pin Sensor. Each MSI load pin is strictly industrial-grade, designed and manufactured specifically to each application. Furthermore, MSI load pins are designed with only internally mounted strain gauges for ultimate protection from the outside environment. To ensure the highest level of accuracy, performance and quality, each load pin is internally balanced and temperature compensated.



# CellScale Network Solutions

## MSI-9000 CellScale Wireless Weighing Solutions

For industrial plant applications, the MSI-9000 CellScale is MSI's most innovative and technologically advanced product for wireless weighing and networked system solutions. The MSI-9000 functions as the central controller in a CellScale networked weighing system, combining advanced analog-to-digital processing with superior RF communications singly packaged in a NEMA 4/IP65 industrial grade enclosure.

## MSI-9002 Breakout Summing Box

The MSI-9002 Breakout/Summing Box is an accessory to the MSI-9000 CellScale. It functions as a standard four-in and one-out summing box, but also has the unique capability to function as a four-in and two-out dual summing box. This allows two channels of the CellScale to access two pairs of summed load cells.

## MSI-9008 Multiplexer

The MSI-9008 is an accessory to the MSI-9000 CellScale. It functions as an eight-in and one-out channel switch. The MSI-9008 expands a single CellScale input to eight independent inputs. Due to the truly independent calibration capability of the CellScale, scales can be mixed in any type, capacity and resolution. Using the maximum number of four MSI-9008 modules permits the CellScale to read 32 independent scale inputs—each one EMI filtered and transient protected.

## MSI-9020 CellModem

The MSI-9020 CellModem is an accessory of the CellScale and wireless weighing systems. The CellModem receives and processes data wirelessly from a CellScale for interface directly to any serial connected device. Support is provided for connection to computers, scoreboards, printers and PLCs.

## CellScale Network Solution





# Measurement Systems International™

A RICE LAKE WEIGHING SYSTEMS COMPANY

14240 Interurban Avenue South, STE 200,  
Seattle, Washington 98168-4661 • USA

TEL: 206-433-0199 • FAX: 206-244-8470

EMAIL: [info@msiscales.com](mailto:info@msiscales.com) • [www.msiscales.com](http://www.msiscales.com)

© 2014 by Measurement Systems International, Inc. PN 162245 4/14  
Specifications subject to change without notice. Printed in USA