



Certificate of Conformance
86-021A2

ELECTRONIC CRANE SCALE

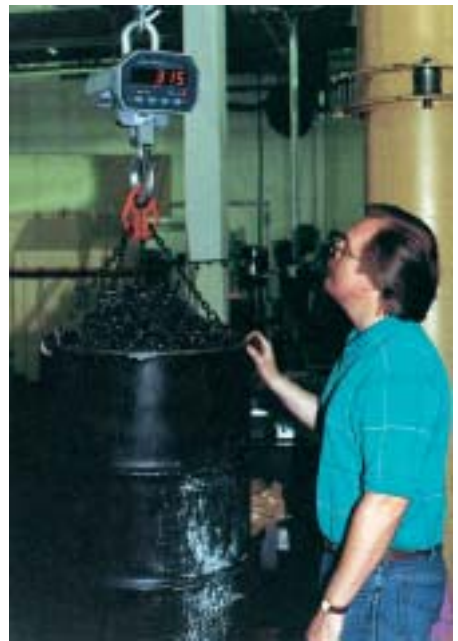
MSI • 3360

CHALLENGER 2

INNOVATION THRU
IMAGINATION



For safe, accurate weighing up to 7.5 tons



The CHALLENGER 2 provides the features and reliability you expect from industry's leading manufacturer of electronic crane scales. When you weigh quality and price, there is not a better value than the CHALLENGER 2 for indoor weighing applications up to 7.5 tons.

Every CHALLENGER 2 is NTEP Approved* for accuracy. Its advanced electronics offer you versatility with an unrivaled standard feature set that includes: Tare, Units switching, Totalizing, Peak

Hold, Set Points, Filtering and a convenient lift-cycle counter. Mechanically, the CHALLENGER 2 has proven itself through years of service. A rugged, low-profile enclosure minimizes headroom loss while maintaining weather resistance and portability. It also sets the standard for readability. With several annunciators and oversized 1.2 in (30mm) LED digits, you can read the display easily from more than 50 ft (15m) away.

MSI products are sold and serviced by a worldwide network of factory-authorized distributors and backed by a full one-year warranty.



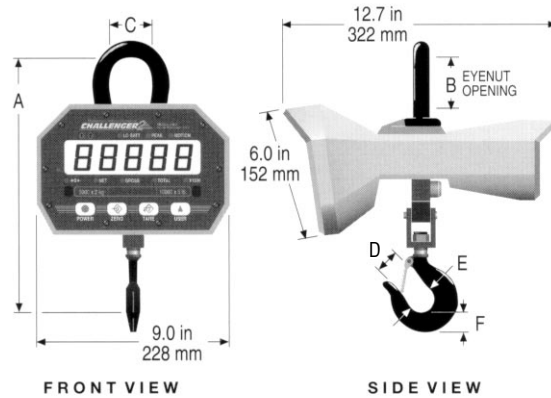
The optional remote control allows the operator to perform all scale functions conveniently and safely from a distance.

For additional MSI scale product information, you can call or write MSI, or browse the company's web site at "www.msiscales.com".

* With exception of the 15,000 pound capacity model.

MSI-3360 Challenger 2 Specifications and Dimensions

The MSI-3360 crane scale is an ideal unit for the cost conscious user for light capacity use. For higher capacities, heavy-duty, outdoor and continuous production use, MSI recommends MSI-4260, MSI-4300, MSI-6260CS or MSI-9300.



CAPACITY	RESOLUTION**	A	B	C	D	E	F	APPROX. SHIP WT.
250 lb	0.1 lb	11.94 in	2.45	2.00	1.12	1.63	1.12	22 lb
125 kg	.05 kg	303 mm	62.0	51.0	28.0	41.0	28.0	10 kg
500 lb	0.2 lb	11.94 in	2.45	2.00	1.12	1.63	1.12	22 lb
250 kg	0.1 kg	303 mm	62.0	51.0	28.0	41.0	28.0	10 kg
1,000 lb	0.5 lb	11.94 in	2.45	2.00	1.12	1.63	1.12	22 lb
500 kg	0.2 kg	303 mm	62.0	51.0	28.0	41.0	28.0	10 kg
2,000 lb	1 lb	11.94 in	2.45	2.00	1.12	1.63	1.12	22 lb
1,000 kg	0.5 kg	303 mm	62.0	51.0	28.0	41.0	28.0	10 kg
5,000 lb	2 lb	16.67 in	3.40	2.45	1.80	2.50	1.81	39 lb
2,500 kg	1 kg	423 mm	86.0	62	46.0	64.0	46.0	18 kg
10,000 lb	5 lb	16.67 in	3.40	2.45	1.80	2.50	1.81	39 lb
5,000 kg	2 kg	423 mm	86.0	62	46.0	64.0	46.0	18 kg
15,000 lb	5 lb	21.58 in	4.28	3.25	1.95	3.00	2.25	67 lb
7,000 kg	2 kg	548 mm	109	83	50	76	57	30 kg

CONSULT FACTORY FOR HIGHER CAPACITIES

Standard Product Specifications

Accuracy: Plus or minus 0.1% of applied load
Display: 5 digit, 1.2 in/30mm high manual or photocell LED brightness control

Filtering: Low, Medium or High selectable

Units: Pounds or Kilograms selectable

Resolution: 2000 or 2500 divisions standard (up to 10,000 available)

Power: 6 volt rechargeable battery (115 or 230 VAC charger included)

Operating Time: 50 - 100 hours depending on operating mode

Auto-Off Mode: Select for 12 minutes, 1 hour or Off

Auto-Sleep Mode: Power down during non-use and power up with motion for maximum battery conservation

Service Counter: Registers number of lifts by value for inspection and maintenance reminder

Operating Temperature Range: -4° to +122°F (-20° to +50°C)

Enclosure: NEMA 12/IP54 powder coated Alodined Cast Aluminum

Hook: Crosby-Laughlin or equivalent 360° non-bearing swivel

Safe Overload: 200% of rated capacity

Ultimate Overload: 500% of rated capacity

Function Switches and Lights

POWER: Turns unit ON or OFF

ZERO: Zeros applied load up to 100% of capacity (limited range with NIST or OIML option)

TARE: Tares out applied load and displays weight in Net mode. Push again to return to Gross mode

USER: User programmable multifunction switch for use as TEST, UNIT select, TOTAL (auto or manual), PEAK HOLD and SET POINTS

ANNUNCIATORS: Center of Zero, Net, Gross, Total, Peak, x 1000, Battery, lb/kg, Motion, SP1 and SP2

Options and Accessories

- NTEP (86-021A2), OIML and EC (T2943) approved versions (Contact factory for specifications)
- Infrared remote controller with 8 meter operating range
- RS-232 data output with connector
- Universal direct power supply
- Audible setpoint alarm
- Special capacity or displayable resolution

Other Heavy-Duty MSI Crane Scales



For heavy-duty, high heat or hazardous use applications, See MSI-4260 Port-A-Weigh specification sheet.

Capacities from 500 lb to 500,000 lb (250kg to 250,000kg).



For heavy-duty and multi-task applications, See MSI-4300 Porta-Weigh Plus specification sheet.

Capacities from 500 lb to 500,000 lb (250kg to 250,000kg).



For heavy-duty applications requiring remote radio telemetry display and/or remote computer/printer interface, see MSI-9300 Porta-Weigh Plus specification sheet.

Capacities from 500 lb to 500,000 lb (250kg to 250,000kg).



Specifications subject to change without notice.

PUB.127-05-90J
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 Printed in U.S.A.



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"We weigh quality first"