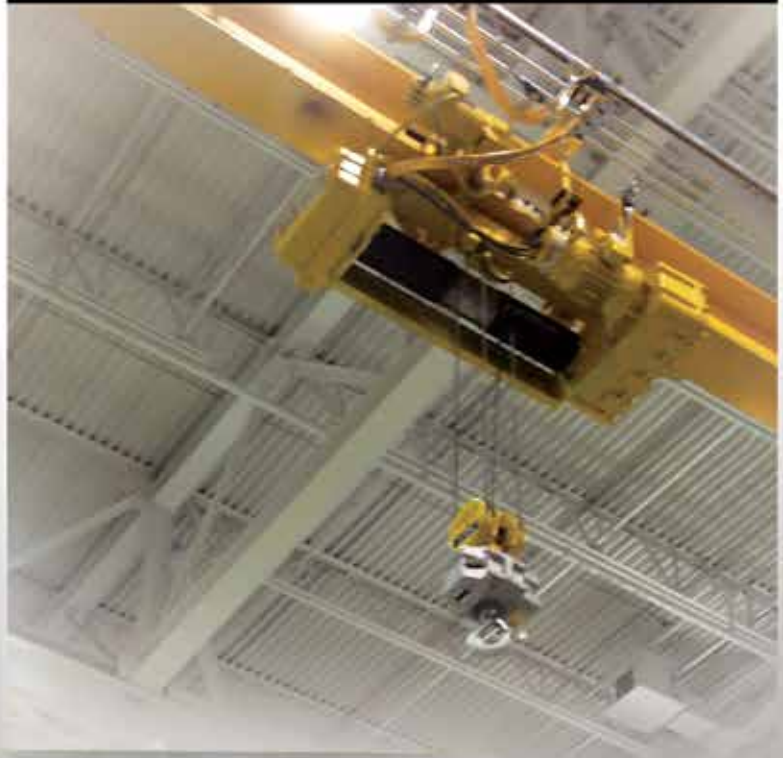# MSI-9850
CellScale
RF DIGITAL INDICATOR

COMPATIBLE WITH:

MSI-6260CS

MSI-9300

MSI-9300HT

MSI-9000

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MSI-9850 CELLSCALE

RF DIGITAL INDICATOR

The MSI-9850 RF digital indicator delivers outstanding performance in the most demanding environments.

The MSI-9850 RF digital indicator is the latest addition to complement MSI's CellScale™ technology. Combined with one or more MSI CellScale components, the MSI-9850 serves as a wireless remote controller and weight indicator providing remote access to multiple scales and sensors in a configured CellScale network.
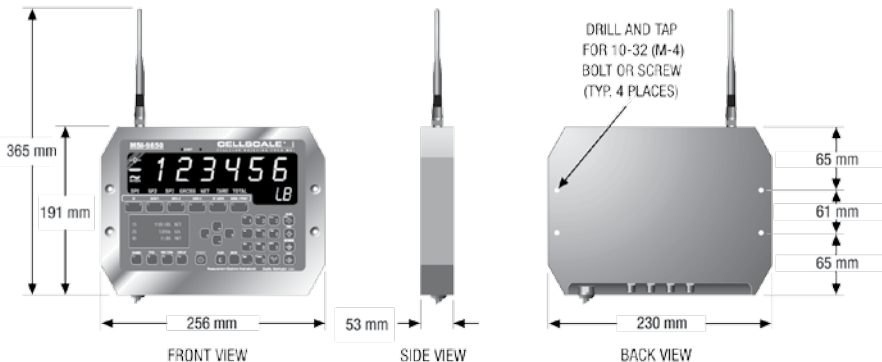
All CellScale component features are supported remotely by the MSI-9850, including calibration, data-logging, totalizing and statistics. The MSI-9850 features a large primary weight display that is easily viewed from a distance and a secondary information display that provides complete visibility to all selected scales and sensors configured in a CellScale network.

The MSI-9850 also provides a simple user interface to all of the advanced features of CellScale wireless technology. Enhanced data acquisition, sophisticated data-logging, and remote control of multiple scales and sensors can be initiated and managed through the MSI-9850. Rugged industrial packaging and flexible-mounting options allow the MSI-9850 to easily integrate and provide outstanding performance in the most demanding applications. Also see specifications for other CellScale components: MSI-9000, MSI-9020, MSI-9750A, and MSI-6260CS, MSI-9300, and MSI-9300HT crane scales for complete capabilities and solutions provided through CellScale technology.

Specifications

Enclosure:	NEMA 4 IP65 milled anodized aluminum with O-ring gaskets NEMA 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, 6 LED function select annunciators, 10 LED annunciators, low battery LED indicator
Information Display:	1.4 in x 2.6 in (36 mm x 67 mm) backlit LCD. Capable of eight lines of 21 characters each backlight selectable On, Off or Automatic
Power Input:	Internal AC/DC power supply: 85-265VAC, 47-440 Hz/130-300VDC. Also included an independent 7-25VDC power input (requires optional power/switch interface cable)
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 Handbook 44 and CE Standards
Connectors:	RS-232, Turck compatible Pico connector
Approvals:	NTEP CC 05-077

Specifications and Dimensions

FRONT VIEW — 365 mm, 191 mm, 256 mm
SIDE VIEW — 53 mm
BACK VIEW — DRILL AND TAP FOR 10-32 (M-4) BOLT OR SCREW (TYP. 4 PLACES), 65 mm, 61 mm, 65 mm, 230 mm

Standard Features

Scale/Channel Monitoring:	Monitors all scale channels, easy 1 button network and/or channel changes. Supports multiple display of CellScale channels (up to 8 simultaneously)
Calibration:	Remotely calibrates networked CellScale components
Real-Time Clock:	Supports date/time stamping in USA and European formats
Internal Audible Alarm:	Four unique tones available for both set and reset conditions
Data-Logging:	Captures weighing data automatically or manually
Barcode Scanner Interface:	Permits bar code scanners to connect directly to the MSI-9850
Data I/O:	Two comm ports, baud rates 300 to 230.4K • Comm Port 1 is RS-232 and RS-422 selectable • Comm Port 2 is dedicated RS-232
Totalizing, Statistics and Product IDs:	Stored in the master CellScale component and displayed on the MSI-9850 (function key or automatic). Each ID code retains full statistics on totaled loads. Up to 32 alphanumeric product IDs can be accessed and programmed
Set Point Outputs:	Five relay driver outputs for 5V - 24V external relays. Four relay driver outputs available when the 5V is provided by the MSI-9850

Push-button Functions

FIXED KEYS:
Power, zero, net/gross, tare, alpha, enter, setup/escape, clear, exit, 0-9

PROGRAMMABLE FUNCTION KEYS (10 programmable to any of the following):

Data String Entry:	Permits barcode or keypad data string entry (up to four available)
Total:	Totalizes loads
Clear Last Total:	Removes last totalized load
Show:	Next channel, last channel, next address, last address, next product ID, last product ID, totals, grand totals (Σ) or statistics
Date and Time:	Displays current date and time
Enter/Edit:	Product ID print strings 1 and 2
Send/Edit Print Strings:	Sends/edits print strings to selectable targets
Change Units:	Change units of measure
Setpoints:	Controls and programs CellScale setpoints Up to 32 setpoints with messaging capability
Peak Hold:	Turns peak hold function "On" or "Off"
Key Disabled:	Disables selected function key
Signal Strength Test:	Tests for RF signal strength
Display Test Characters:	Performs display test of all screens
Data-Logging:	Enables automatic or manual data-logging
Barcode Scanner Interface:	Allows user access to bar code strings

Options and Accessories

- NTEP Certified
- RF Remote Controller includes: on/off, zero, tare, net/gross, total, view sum and programmable function keys (typical range 50 ft / 15 m)
- Non-isolated DC/DC input power: 7-25VDC power input only. Includes unterminated DC input cord.
- Isolated DC/DC input power: 10-36VDC or 20-72VDC (specify). Includes unterminated DC input cord.
- Long range antennas: optional (contact factory for further information)
- RS-232 serial cable: 13 ft (4 m) serial cable with standard DB-9 serial connector
- Ethernet connectivity: wireless or hardwired 802.11 b/g
- 4-20 mA Output: Provides a programmable current output available in single, dual or quad configurations.
- Internal setpoint relays: Provides up to eight setpoint relay outputs; both coil and solid-state relay types supported (contact factory for further information).
- Relay control kit: Provides an external I/O relay board (uses standard industrial I/O modules) for interfacing to setpoints; I/O modules not included.
- Power/Switch interface cable: 13 ft (4 m) ; for use with 7-25VDC power input source
- External setpoint relay output cable: 6.5 ft (2 m)
- External audible alarm: setpoint controlled, 95dBa (contact factory for further information)
- Universal mounting bracket: desktop or wall/bulkhead mount versions available

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