

MSI-3460 Challenger 3

Specifications

Accuracy:

± (0.1% +1 d) of applied load

Resolution:

2000 to 3750 d standard (Up to 10,000 d available)

Enclosure:

NEMA 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. 115/230VAC 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



APPROVALS



Standard Features

- Crane unit with five-digit, 1.5 in (38 mm) LED display
- Top lifting eye or shackle and bottom swivel hook
- Lb / kg switch selectable
- Six Volt rechargeable battery and universal 115/230VAC, 50/60 Hz battery charger (NA Plug Standard)

Additional Options

(Contact MSI for application consultation)

- RF Remote Controller (control for On/Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000 or MSI-8000HD RF Remote Display
- RF Scoreboard
- NTEP Certified (250-10,000 lb capacities)
- Universal direct power supply (115/230VAC)

MSI-3460 Challenger 3

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP WEIGHT	PRICE
139102	502887-0001	MSI-3460 250/500 lb cap F/A	250 lb / 125 kg 500 lb / 250 kg	0.1 lb / 0.05 kg 0.2 lb / 0.1 kg	22 lb / 10 kg	\$1,750.00
139103	502887-0002	MSI-3460 1000/2000 lb cap F/A	1,000 lb / 500 kg 2,000 lb / 1,000 kg	0.5 lb / 0.2 kg 1 lb / 0.5 kg	22 lb / 10 kg	1,850.00
139104	502887-0003	MSI-3460 5000/10,000 lb cap F/A	5,000 lb / 2,500 kg 10,000 lb / 5,000 kg	2 lb / 1 kg 5 lb / 2 kg	39 lb / 18 kg	2,295.00
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	3,195.00
139106	502887-0005	MSI-3460 250/500 lb cap F/A with RF remote controller	250 lb / 125 kg 500 lb / 250 kg	0.1 lb / 0.05 kg 0.2 lb / 0.1 kg	22 lb / 10 kg	2,035.00
139107	502887-0006	MSI-3460 1000/2000 lb cap F/A with RF remote controller	1,000 lb / 500 kg 2,000 lb / 1,000 kg	0.5 lb / 0.2 kg 1 lb / 0.5 kg	22 lb / 10 kg	2,135.00
139108	502887-0007	MSI-3460 5000/10,000 lb cap F/A With RF remote controller	5,000 lb / 2,500 kg 10,000 lb / 5,000 kg	2 lb / 1 kg 5 lb / 2 kg	39 lb / 18 kg	2,580.00
139109	502887-0008	MSI-3460 15,000 lb cap F/A with RF remote controller	15,000 lb / 7,000 kg	5 lb / 2 kg	67 lb / 30 kg	3,480.00
139110	502887-0009	MSI-3460 250/500 lb cap F/A with RF modem install for connectivity to model MSI-8000	250 lb / 125 kg 500 lb / 250 kg	0.1 lb / 0.05 kg 0.2 lb / 0.1 kg	22 lb / 10 kg	1,925.00
139111	502887-0010	MSI-3460 1000/2000 lb cap F/A with RF modem install for connectivity to model MSI-8000	1,000 lb / 500 kg 2,000 lb / 1,000 kg	0.5 lb / 0.2 kg 1 lb / 0.5 kg	22 lb / 10 kg	2,025.00
139112	502887-0011	MSI-3460 5000/10,000 lb cap F/A with RF modem install for connectivity to Model MSI-8000	5,000 lb / 2,500 kg 10,000 lb / 5,000 kg	2 lb / 1 kg 5 lb / 2 kg	39 lb / 18 kg	2,470.00
139113	502887-0012	MSI-3460 15,000 lb cap F/A with RF modem install for connectivity to model MSI-8000	15,000 lb / 7,000 kg	5 lb / 2 kg	67 lb / 30 kg	3,370.00
139381	503208-0001	MSI-8000 RF Remote Display (requires MSI-3460 equipped with RF modem)	N/A	N/A	5 lb / 2.25 kg	1,115.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
140049	C00502-0001	Battery assembly, 6 Volt rechargeable	3 lb / 1.4 kg	\$115.00
139152	502956-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA Plug)	5 lb / 2.25 kg	150.00
139153	502956-0002	Battery charger 115/230 VAC, 50/60 Hz (EC Plug)	5 lb / 2.25 kg	150.00
139386	503239-0001	Spare RF remote controller	1 lb / 0.45 kg	97.00
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	120.00
162899	N/A	Red LED, 4 in (101 mm) six-digit display	21 lb / 10 kg	2,195.00
162897	N/A	Red LED, 6 in (152 mm) six-digit display	37 lb / 17 kg	2,650.00

MSI-4260 Port-A-Weigh

Specifications

Accuracy:

± (0.1% +1 d) of applied load

Resolution:

3000 to 5000 d standard (Up to 10,000 d available)

Enclosure:

NEMA 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 configuration),

Tare: Tares applied load and displays weight in Net mode, F1: Programmable as TEST, UNITS, NET/GROSS, TOTAL & 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. 115/230VAC battery charger is included

Operating Time:

Up to 200 hours between charging with typical use. Less with optional RF Modem Link

Operating Temperature:

-4°F to 140°F (-20°C to 60°C)

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



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 115/230VAC, 50/60 Hz battery charger (NA Plug Standard)

Additional Options

(Contact MSI for application consultation)

- RF Remote Controller (Control for On/Off, Zero, Tare and other functions)
- RF Modem Install for connectivity to MSI-8000 or MSI-8000HD RF remote display
- NTEP Certified configuration
- 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 / 130-300VDC
- Low headroom top adapter

MSI-4260 Port-A-Weigh

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP 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	\$3,770.00
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	3,770.00
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	3,870.00
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	4,075.00
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	5,195.00
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	5,500.00
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	7,850.00
139467**	503413-0008	MSI-4260B 70,000 lb F/A	70,000 lb / 35,000 kg	20 lb / 10 kg	270 lb / 121 kg	9,785.00
139468***	503413-0009	MSI-4260B 100,000 lb F/A	100,000 lb / 50,000 kg	20 lb / 10 kg	420 lb / 189 kg	16,315.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Consult	N/A	Option kit 4260B WiFi 802.11	N/A	\$595.00
150972	503510-0001	Option kit 4260B RF remote controller	N/A	290.00
150971	503508-0001	Option kit 4260B RF remote display (RF modem install for connectivity with MSI-8000)	N/A	180.00
139381	503208-0001	MSI-8000 RF remote display (requires MSI-4260 equipped with RF modem option 2)	5 lb / 2.25 kg	1,115.00
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK Plug)	4 lb / 2 kg	255.00
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC Plug)	4 lb / 2 kg	255.00
139386	503239-0001	Spare RF remote controller	1 lb / 0.45 kg	97.00
159221		Universal Crane Scale Transport Cart	180 lb / 82 kg	920.00
162899	N/A	Red LED, 4 in (101 mm) six-digit display	21 lb / 10 kg	2,195.00
162897	N/A	Red LED, 6 in (152 mm) six-digit display	37 lb / 17 kg	2,650.00
Accessories				
150367	D00559-0004	Battery assembly, 12 V rechargeable	6.6 lb / 3 kg	100.00
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA Plug standard)	4 lb / 2 kg	255.00
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	120.00

* 490% of Kg capacity

** 475% of lb capacity/430% of Kg capacity

***450% of Kg capacity

MSI-4300 Port-A-Weigh Plus

Specifications

Accuracy:

+ (0.1% +1 d) of applied load

Resolution:

3000 to 5000 d standard (Up to 10,000 d available)

Enclosure:

NEMA 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 Volt rechargeable battery. 115/230VAC battery charger included

Operating Time:

300 hours with typical use

Operating Temperature:

5°F to 122°F (-15°C to 50°C)

Filtering:

OFF, L0, Medium and HI selectable

Warranty:

One-year limited



Standard Features

- Crane unit with six-digit, 1.6 in (40 mm), backlight, liquid crystal display
- Top lifting eye or shackle, bottom thrust bearing swivel hook
- 12 Volt rechargeable battery and Universal 115/230VAC, 50/60 Hz battery charger (NA Plug Standard)

Additional Options

(Contact MSI for application consultation)

- 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; 85-265VAC, 47-440 Hz / 130-300VDC
- Low headroom top adapter
- RS-232 data output
- Audible setpoint alarm
- NTEP Certified configuration

MSI-4300 Port-A-Weigh Plus

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP 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	\$4,175.00
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	4,175.00
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	4,280.00
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	4,485.00
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	5,605.00
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	5,910.00
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	8,255.00
138072**	502235-0035	MSI-4300 70,000 lb F/A	70,000 lb / 35,000 kg	20 lb / 10 kg	270 lb / 121 kg	10,195.00
138073***	502235-0036	MSI-4300 100,000 lb F/A	100,000 lb / 50,000 kg	20 lb / 10 kg	420 lb / 189 kg	16,720.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK Plug)	4 lb / 2 kg	\$255.00
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC Plug)	4 lb / 2 kg	255.00
159221		Universal Crane Scale Transport Cart	180 lb / 82 kg	920.00
Accessories				
150367	D00559-0004	Battery assembly, 12 Volt rechargeable	6.6 lb / 3 kg	100.00
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA Plug Standard)	4 lb / 2 kg	255.00

* 490% of Kg capacity

** 475% of lb capacity/430% of Kg capacity

*** 450% of Kg capacity

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

Specifications

Accuracy:

±(0.1% +1 d) of applied load

Resolution:

3000 to 5000 d standard (Up to 10,000 d available)

Enclosure:

NEMA 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, 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, 115-230VAC battery charger included

Operating Time:

Up to 30 hours between charging with typical use

Operating Temperature:

-4°F to 140°F (-20°C to 60°C)

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:

1 year limited



APPROVALS



5,000 to 70,000 lb

Standard Features

- Crane Unit with 2.4 GHz FHSS transceiver
- Six digit, 30 mm (1.2 in.) LED display and annunciators
- Top lifting eye or shackle, and bottom thrust bearing swivel hook
- 12 Volt rechargeable battery and Universal 115/230 VAC, 50/60 Hz battery charger (NA Plug Standard)

Additional 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; 85-265VAC, 47-440 Hz / 130-300VDC
- Wireless 802.11 b/g Ethernet connectivity
- MSI-9300 Retrofit Kit - conversion kit to upgrade existing MSI-4300 crane scale to 9300 RF unit

(Note: communicates with MSI-9850, 9750A, Remote RF Indicators or MSI RF Scoreboard. Each sold separately)

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

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP 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	\$5,705.00
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	5,705.00
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	5,810.00
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	6,015.00
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	7,135.00
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	7,440.00
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	9,785.00
138420**	502518-0016	MSI-9300 70,000 lb F/A	70,000 lb / 35,000 kg	20 lb / 10 kg	270 lb / 121 kg	11,725.00
138421***	502518-0017	MSI-9300 100,000 lb F/A	100,000 lb / 50,000 kg	20 lb / 10 kg	420 lb / 189 kg	18,250.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
159625	N/A	MSI-9850 RF Remote Indicator (wall or desk mount)	10 lb / 5 kg	\$2,440.00
138486	502541-0001	MSI-9750 RF Portable Indicator	2.2 lb / 1 kg	1,830.00
139056	502855-0006	MSI-RF Scoreboard, red LED, 4 in, six-digit display	21 lb / 10 kg	2,950.00
139052	502855-0002	MSI-RF Scoreboard, red LED, 6 in, six-digit display	37 lb / 17 kg	3,360.00
150367	D00559-0004	Battery assembly, 12 Volt rechargeable	6.6 lb / 3 kg	100.00
148624	501705-0001	RS-232/RS-485 Serial Cable	1 lb / 0.45 kg	100.00
138006	502221-0001	Universal 115/230VAC, 50/60 Hz battery charger (NA Plug Standard)	4 lb / 2 kg	255.00
138007	502221-0002	Universal 115/230VAC, 50/60 Hz battery charger (UK Plug)	4 lb / 2 kg	255.00
138008	502221-0003	Universal 115/230VAC, 50/60 Hz battery charger (EC Plug)	4 lb / 2 kg	255.00
138341	502488-0001	Universal mounting bracket for MSI-9850 RF remote indicator	2.2 lb / 1 kg	132.00
159221		Universal Crane Scale Transport	180 lb / 82 kg	920.00

* 490% of Kg capacity

** 475% of lb capacity/430% of Kg capacity

*** 450% of Kg capacity

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

Specifications

Accuracy:

±(0.1% +1 d) of applied load

Resolution:

3000 to 5000 d standard (Up to 10,000 d available)

Enclosure:

NEMA 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:

-4°F to 140°F (-20°C to 60°C)

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



Standard Features

- Crane Unit with 2.4 GHz Spread Spectrum transceiver
 - Six digit, 30 mm (1.2 in) LED display and annunciators
 - Top shackle interface and fixed bottom hook
- (Note: Top shackle not included, see Options)*
- 12 Volt rechargeable battery and Universal 115/230VAC, 50/60 Hz battery charger (NA Plug Standard)
 - Hi-Torque load train designed for use with powered rotation

Additional 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 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 adapter

(Note: Communicates with MSI-9850, 9750A, Remote RF Indicators or MSI RF Scoreboard. Each sold separately)

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

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP WEIGHT	PRICE
138440	502519-0001	MSI-9300HT 30,000lb F/A	30,000 lb / 15,000 kg	10 lb / 5.0 kg	125 lb / 55 kg	\$10,195.00
138441	502519-0002	MSI-9300HT 70,000lb F/A	70,000 lb / 35,000 kg	20 lb / 10 kg	270 lb / 121 kg	12,845.00
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. SHIP WEIGHT	PRICE
141992	10539	Top lifting shackle Crosby® G2130 17 ton for 30,000 lb cap unit	19.5 lb / 8.9 kg	\$325.00
146335	23650-0040	Top lifting shackle Crosby® G2140 40 ton for 70,000 lb cap unit	34 lb / 15 kg	950.00
146336	23650-0050	Top lifting shackle Crosby® G2140 55 ton for 120,000 lb cap unit	104 lb / 47 kg	1,247.50
159625	N/A	MSI-9850 RF Remote Indicator (wall or desk mount)	10 lb / 5 kg	2,440.00
138486	502541-0001	MSI-9750 RF Portable Indicator	2.2 lb / 1 kg	1,830.00
139056	502855-0006	MSI-RF Scoreboard, red LED, 4 in, 6 digit display	21 lb / 10 kg	2,950.00
139052	502855-0002	MSI-RF Scoreboard, red LED, 6 in, 6 digit display	37 lb / 17 kg	3,360.00
148624	501705-0001	RS-232/RS-485 Serial Cable	1 lb / 0.45 kg	100.00
150367	D00559-0004	Battery assembly, 12 Volt rechargeable	6.6 lb / 3 kg	100.00
138006	502221-0001	Universal 115/230VAC, 50/60 Hz battery charger (NA Plug standard)	4 lb / 2 kg	255.00
138007	502221-0002	Universal 115/230VAC, 50/60 Hz battery charger (UK Plug)	4 lb / 2 kg	255.00
138008	502221-0003	Universal 115/230VAC, 50/60 Hz battery charger (EC Plug)	4 lb / 2 kg	255.00
138341	502488-0001	Universal mounting bracket for MSI-9850 RF remote indicator	2.2 lb / 1 kg	132.00
159221		Universal Crane Scale Transport Cart	180 lb / 82 kg	920.00

MSI-6260CS Trans-Weigh CellScale™ RF

Specifications

Accuracy:

± (0.1% +1 d) of applied load

Resolution:

3000 to 5000 d standard (Up to 10,000 d available)

Enclosure:

NEMA 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, 115/230VAC battery charger included

Operating Time:

Up to 40 hours during charging with typical use

Operating Temperature:

-4°F to 140°F (-20°C to 60°C)

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



APPROVALS



5,000 to 70,000 lb

Standard Features

- Crane unit with 2.4 GHz spread spectrum transceiver
- Top lifting eye or shackle, and bottom thrust bearing swivel hook
- 12 Volt rechargeable battery and Universal 115/230 VAC, 50/60 Hz battery charger (NA Plug Standard)

Additional Options

(Contact MSI for application consultation)

- NTEP Certified configuration
- 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 adapter
- Universal direct power supply; 85-265VAC, 47-440 Hz / 130-300VDC
- Wireless 802.11 b/g Ethernet connectivity
- MSI-6260CS Retrofit Kit - conversion kit to upgrade existing MSI-4260 crane scales to MSI-6260CS

Note: Communicates with MSI-9850, 9750A, RF Indicators or MSI RF Scoreboard. Each sold separately

MSI-6260CS Trans-Weigh CellScale™ RF

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP 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	\$4,790.00
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	4,790.00
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	4,890.00
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	5,095.00
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	6,215.00
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	6,520.00
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	8,870.00
138509**	502559-0008	MSI-6260 70,000 lb F/A	70,000 lb / 35,000 kg	20 lb / 10 kg	270 lb / 121 kg	10,805.00
138510***	502559-0009	MSI-6260 100,000 lb F/A	100,000 lb / 50,000 kg	20 lb / 10 kg	420 lb / 189 kg	17,335.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Consult	N/A	RF Remote Control Upgrade (Includes 1 remote)	N/A	\$285.00
138317	N/A	Spare RF Remote Control	1 lb / .5 kg	100.00
159625	N/A	MSI-9850 RF Remote Indicator (wall or desk mount)	10 lb / 5 kg	2,440.00
138486	502541-0001	MSI-9750 RF Portable Indicator	2.2 lb / 1 kg	1,830.00
139056	502855-0006	MSI-RF Scoreboard, red LED, 4 in, 6 digit display	21 lb / 10 kg	2,950.00
139052	502855-0002	MSI-RF Scoreboard, red LED, 6 in, 6 digit display	37 lb / 17 kg	3,360.00
148624	501705-0001	RS-232/RS-485 Serial Cable	1 lb / 0.45 kg	100.00
150367	D00559-0004	Battery assembly, 12 Volt rechargeable	6.6 lb / 3 kg	100.00
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA Plug Standard)	4 lb / 2 kg	255.00
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK Plug)	4 lb / 2 kg	255.00
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC Plug)	4 lb / 2 kg	255.00
138341	502488-0001	Universal mounting bracket for MSI-9850 RF Remote Indicator	2.2 lb / 1 kg	132.00
159221		Universal Crane Scale Transport Cart	180 lb / 82 kg	920.00

* 490% of Kg capacity

** 475% of lb capacity/430% of Kg capacity

*** 450% of Kg capacity

MSI-7300 Dyna-Link 2

Digital Tension Dynamometer

Specifications

Accuracy:

0.1% of rated capacity

Enclosure:

NEMA 4, IP65, anodized corrosion-resistant finish

Material:

2024 aircraft grade aluminum

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 25,000–100,000 lb

Operating Time:

From 150 to 300 hours in typical use depending on unit capacity and battery configuration. Less 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:

One-year limited



Standard Features

- Tension Dynamometer with six-digit 1.00 in (25.4 mm) LCD display
- Two each "C" alkaline batteries for capacities up to 10,000 lb (5,000 kg)
- Two each "D" batteries for capacities 25,000 lb (12,500 kg) and above

Additional Options

(Contact MSI for application consultation)

- Pair of Crosby® shackles
- Transport case
- RS-232 serial cable
- RF Modem for connectivity with MSI-8000 RF remote display
- RF Scoreboard
- MSI-8000 or MSI-8000HD RF Remote Display RF 2.4 GHz–802.15.4, operating range 100 ft (30 m) typical and MSI-8000HD
- Higher capacity designs available upon request

MSI-7300 Dyna-Link 2

Digital Tension Dynamometer

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP 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	\$1,395.00
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	1,395.00
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	1,395.00
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	1,495.00
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	1,995.00
139167	502967-0006	MSI-7300 50,000 lb F/A	50,000 lb / 25,000 kg	20 lb / 10 kg	29 lb / 13 kg	2,595.00
139168*	502967-0007	MSI-7300 100,000 lb F/A	100,000 lb / 50,000 kg	50 lb / 20 kg	65 lb / 30 kg	3,395.00
Optional Configurations						
139441	503381-0001	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	1,000 lb / 500 kg	0.5 lb / .2 kg	8 lb / 3.6 kg	1,570.00
139442	503381-0002	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	2,500 lb / 1,250 kg	1 lb / .5 kg	9 lb / 4 kg	1,570.00
139443	503381-0003	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	5,000 lb / 2,500 kg	2 lb / 1 kg	9 lb / 4 kg	1,570.00
139444	503381-0004	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	10,000 lb / 5,000 kg	5 lb / 2 kg	11 lb / 5 kg	1,670.00
139445	503381-0005	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	25,000 lb / 12,500 kg	10 lb / 5 kg	19 lb / 8.6 kg	2,170.00
139446	503381-0006	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	50,000 lb / 25,000 kg	20 lb / 10 kg	29 lb / 13 kg	2,770.00
139447*	503381-0007	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	100,000 lb / 50,000 kg	50 lb / 20 kg	65 lb / 30 kg	3,570.00
152794*	N/A	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	120,000 lb / 60,000 kg	50 lb / 20 kg	57 lb / 26 kg	Consult
152795*	N/A	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	180,000 lb / 90,000 kg	100 lb / 50 kg	74 lb / 36 kg	Consult
152796*	N/A	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	260,000 lb / 130,000 kg	100 lb / 50 kg	100 lb / 45 kg	Consult
152797*	N/A	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	380,000 lb / 190,000 kg	200 lb / 100 kg	169 lb / 77 kg	Consult
152798**	N/A	MSI-7300 RF module (for connectivity to MSI-8000 RF Remote Display) F/A	550,000 lb / 275,000 kg	200 lb / 100 kg	336 lb / 152 kg	Consult

* 500% Ultimate overload

** 440% Ultimate overload

MSI-7300 Dyna-Link 2

Digital Tension Dynamometer

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
151357	10541	Shackle anchor, bolt type 3.25 ton for 500-5000 lb unit	3 lb / 1.4 kg	\$40.00/ea
151355	10538	Shackle anchor, bolt type 6.5 ton for 10,000 lb unit	6 lb / 2.7 kg	82.50/ea
141992	10539	Shackle anchor, bolt type 17 ton for 25,000 lb unit	39 lb / 17.7 kg	325.00/ea
151356	10540	Shackle anchor, bolt type 25 ton for 50,000 lb unit	63 lb / 28.6 kg	512.50/ea
146336	23650-0050	Shackle anchor, bolt type 55 ton for 100,000 lb unit	104 lb / 47 kg	1,247.50/ea
83454	—	Shackle anchor, bolt type 85 ton for 180,000 lb unit	125 lb / 57 kg	3,695.00/pr
83455	—	Shackle anchor, bolt type 120 ton for 260,000 lb unit	185 lb / 84 kg	4,459.00/pr
83456	—	Shackle anchor, bolt type 175 ton for 380,000 lb unit	350 lb / 159 kg	10,840.00/pr
83458	—	Shackle anchor, bolt type 250 ton for 550,000 lb unit	700 lb / 318 kg	17,984.00/pr
139381	503208-0001	MSI-8000 RF Remote Display (requires MSI-7300 equipped with optional RF Modem)	5 lb / 2.25 kg	1,115.00
153591	—	MSI-8000HD RF Remote Display, A/C Powered	5 lb / 2.25 kg	1,220.00
162059	—	Transport case for 500-10,000 lb capacity unit with Pluck and Pick foam	N/A	230.00
162113	—	Precision cut heavy duty foam. For use with 162059 case and 1 k DynaLinks	N/A	75.00
162114	—	Precision cut heavy duty foam. For use with 162059 case and 2.5 k / 5 k DynaLinks	N/A	75.00
162115	—	Precision cut heavy duty foam. For use with 162059 case and 10 k DynaLinks	N/A	75.00
145076	14317	Transport case for 25,000 and 50,000 lb capacity unit	N/A	350.00
145073	14311	Transport case for 100,000 lb capacity unit	N/A	350.00
139470	503414-0002	RS-232 serial cable for MSI-7300	1 lb / 0.45 kg	125.00
162899	N/A	Red LED, 4 in (101 mm) six-digit display	21 lb / 10 kg	2,195.00
162897	N/A	Red LED, 6 in (152 mm) six-digit display	37 lb / 17 kg	2,650.00
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	120.00
150964	503489-0001	RS-232 13 ft (4 m) serial cable for MSI-8000	1 lb / 0.45 kg	100.00

MSI-8000

RF Remote Display

Specifications

Enclosure:

NEMA 4, IP65

Weight:

0.98 lbs (445 grams)

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

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

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



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, 50/60Hz battery charger (NA plug standard)

Part Number/Price

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
139381	503208-0001	MSI-8000 RF remote display (requires ScaleCore™ device equipped with RF modem)		\$1,115.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	PRICE
149549	503486-0001	Universal 115/230 VAC 50/60 Hz (NA Plug) battery charger for MSI-8000 RF remote display	\$120.00
149550	503486-0002	Universal 115/230 VAC 50/60 Hz (EC plug) battery charger for MSI 8000 RF remote display	120.00
150964	503489-0001	DB9 female serial interface cable for MSI-8000 RF remote display	100.00

MSI-8000HD

Indicator/Remote Display

Specifications

Enclosure:

NEMA 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:

90-267VAC, 9-36VDC, 18-72VDC, 120-300VDC

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

RF Effective Range:

Typically 100 or more feet (33 m)

Data I/O:

Dual RS-232 comm ports

Warranty:

One-year limited

Approvals:

Pending



Shown with optional tilt stand.

Standard Features

- Indicator or Handheld 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

Part Number/Price

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
153591	MSI-8000HD ScaleCore RF remote display AC powered (no A/D)	5 lb	\$1,220.00
154853	MSI-8000HD ScaleCore RF remote display, battery powered (no A/D)	5 lb	1,320.00
158427	MSI-8000HD digital weight indicator, two A/D inputs, AC powered (Non-RF)	5 lb	1,380.00
158428	MSI-8000HD digital weight indicator, two A/D inputs, battery powered (Non-RF)	5 lb	1,480.00

Options/Accessories

PART #	DESCRIPTION	PRICE
155173	MSI-8000HD tilt stand option kit	\$61.00
155193	MSI-8000HD Ethernet TCP/IP option kit	360.00
148624	MSI-8000HD serial RS-232 cable	100.00
158779	MSI-8000HD coil relay option kit, 250 VAC/30 VDC 5A or 100 VDC 0.4A	290.00
158780	MSI-8000HD solid state relay option kit, 60 Vpk 2.7A	290.00
158781	MSI-8000HD solid state relay option kit, 200 Vpk 0.9A	290.00
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	120.00
149550	Universal 115/230 VAC 50/60 Hz (International Plugs) battery charger for MSI-8000HD battery powered device	120.00

TranSend™ Wireless Load Cell Interface System

Specifications

Power:

5-6VDC, 7-36VDC 85-265VAC

Excitation Voltage:

Transmitter: +4.8VDC, 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

Digital I/O:

Three coil relays available on select models

Circuit Protection:

RFI, EMI, ESD protection

Weight:

TBD

Serial Port:

Full duplex RS-232

Operating Temperature:

-40°F to 185°F (-40°C to 85°C)

Enclosure:

NEMA4 (IP66), aluminum black powder coated (excludes wall cube model)

Warranty:

One-year limited warranty



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

TranSend™ Wireless Load Cell Interface System

Part Number/Price

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
TRANSMITTERS			
5-6 VDC Power Input			
160330	Single-channel transmitter, no relays. RF 802.15.4, 2.4 GHz	2 lbs	\$775.00
159207	Four-channel transmitter, no relays. RF 802.15.4, 2.4 GHz	2 lbs	825.00
161949	Four-channel transmitter, includes three coil relays. RF 802.15.4, 2.4 GHz	2 lbs	950.00
7-36 VDC Power Input			
160329	Single-channel transmitter, no relays. RF 802.15.4, 2.4 GHz	2 lbs	825.00
159470	Four-channel transmitter, no relays. RF 802.15.4, 2.4 GHz	2 lbs	850.00
161951	Four-channel transmitter, includes three coil relays. RF 802.15.4, 2.4 GHz	2 lbs	995.00
85-265 VAC Power Input			
160328	Single-channel transmitter, no relays. RF 802.15.4, 2.4 GHz	2 lbs	850.00
159469	Four-channel transmitter, no relays. RF 802.15.4, 2.4 GHz	2 lbs	875.00
161950	Four-channel transmitter, includes three coil relays. RF 802.15.4, 2.4 GHz	2 lbs	1,025.00
RECEIVERS			
5-6 VDC Power Input			
160337	Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4GHz	2 lbs	875.00
160334	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5VDC, 0-10VDC, +/- 5VDC, +/- 10VDC. RF 802.15.4, 2.4 GHz	2 lbs	925.00
160016	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5VDC, 0-10VDC, +/- 5VDC, +/- 10VDC. Includes three coil relays. RF 802.15.4, 2.4 GHz	2 lbs	1,050.00
7-36 VDC Power Input			
160336	Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4GHz	2 lbs	950.00
160333	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5VDC, 0-10VDC, +/- 5VDC, +/- 10VDC. RF 802.15.4, 2.4 GHz	2 lbs	1,050.00
159476	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5VDC, 0-10VDC, +/- 5VDC, +/- 10VDC. Includes three coil relays. RF 802.15.4, 2.4 GHz	2 lbs	1,175.00
85-265 VAC Power Input			
160335	Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4GHz	2 lbs	995.00
160332	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5VDC, 0-10VDC, +/- 5VDC, +/- 10VDC. RF 802.15.4, 2.4 GHz	2 lbs	1,100.00
159475	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5VDC, 0-10VDC, +/- 5VDC, +/- 10VDC. Includes three coil relays. RF 802.15.4, 2.4 GHz	2 lbs	1,275.00

Options/Accessories

PART #	DESCRIPTION	PRICE
162172	Charger, TranSend for 6V SLA battery	\$50.00
162173	Battery, TranSend 6V SLA	95.00
162175	Enclosure, TranSend for 6V SLA battery	280.00
150964	RS-232 13 ft (4 m) serial cable with 9-Pin (female) connector	100.00
150965	RS-232 13 ft (4 m) serial cable with 9-Pin (male) connector	100.00
160109	AC adapter, TranSend 6V	40.00
162178	Antenna kit, remote standard antenna	250.00
139309	Antenna kit, long range Omni with 3M coax	405.00
139310	Antenna kit, corner reflector 9 dbi with 3M coax	Consult
139311	Antenna kit, corner reflector 12 dbi with 3M coax	Consult
139312	Antenna kit, Yagi 15 dbi with 3M coax	Consult
144345	30M coaxial cable, for use with non-vehicle mount antenna kits	375.00
139313	Antenna kit, vehicle mount. 5 dbi with 5M coaxial cable	Consult
162177	Cordset, TranSend. Pre-wired for use with single channel transmitters or non-relay based receivers	100.00
162184	Load cell connector, TranSend. Field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers.	45.00
162185	Load cell connector, TranSend. Field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers.	45.00
162186	Load cell connector, TranSend. Field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers.	45.00
162187	Load cell connector, TranSend. Field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers.	45.00

MSI-9850 CellScale™ RF Digital Indicator

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, 4 cursor keys, 7 control keys and 10 user programmable keys. Password protected with lock feature

Weight Display:

5 digit, 1.2 in (30 mm) high numeric weight LED, 4 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 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)

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



APPROVALS



Standard Features

- Compatible with MSI-6260CS, MSI-9300 and MSI-9000 CellScale
- Six-digit 1.2 in (30 mm) LED display
- 1.4 x 2.6 in (36 x 67 mm) information LCD display
- 2.4 GHz Spread Spectrum transceiver
- RS-232 data I/O with real time clock
- NEMA 4, IP65 enclosure
- Power input 85-265 VAC, 47-440 Hz / 130-300 VDC; 8 ft / 2.4 m power cable included (North American Plug Standard)

Additional Options

(Contact MSI for application consultation)

- NTEP Certified
- RF remote controller (control for On/Off, Zero, Tare and other functions. 10 m Operating Range)
- Long range antenna, omni-directional with 9dBi
- WiFi Ethernet Connectivity (802.11b)
- Hardwired Ethernet output connection
- Single 4-20mA output, provides programmable current output
- Bar code scanner
- Set-point 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

MSI-9850 CellScale™ RF Digital Indicator

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP WEIGHT	PRICE
159625	N/A	MSI-9850 RF Remote Indicator	N/A	N/A	10 lb / 4.5 kg	\$2,2440.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	PRICE
141558	10082	External setpoint relay output cable, 6.5 ft / 2 m, RS-232, 9-Pin	100.00
138358	502513-0001	RS-232, 13 ft / 4 m cable with DB-9 connector	100.00
138625	502598-0001	RF remote controller (control for On/Off , Zero, Tare and other functions. 10 m operating range)	300.00
143466	12147	Long-range antenna, omni-directional with 9 dBi gain, includes 10 ft / 3 m coaxial cable	415.00
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	Hardwired Ethernet output connection, includes connector	345.00
139033	502835-0002	WiFi Ethernet connectivity (802.11b - contact factory for assistance)	345.00
Consult	Consult	Single 4-20 mA output. Provides programmable current output	Consult
Consult	Consult	Barcode 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)	370.00
138341	502488-0001	Universal mounting bracket for either desktop or wall / bulkhead mount (specify type)	132.00
138351	502499-0001	Vehicle or wall mount bracket stand	132.00
138631	502600-0003	Non-Isolated 7-25VDC power input, includes 13 ft / 4 m un-terminated DC input cable	132.00
138632	502600-0004	Isolated 10-36VDC power input, includes 13 ft / 4 m un-terminated DC input cable	132.00
138633	502600-0005	Isolated 20-72VDC power input, includes 13 ft / 4 m un-terminated DC input cable	205.00

MSI-9750A CellScale™ RF Portable Indicator

Specifications

Enclosure:

NEMA 3, IP54 ,Rugged Molded PVC, O-ring gasketed.

Dimensions:

4.6 x 10.3 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:

1.4 x 2.6 in (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



Standard Features

- Compatible with MSI-6260CS, MSI-9300 and MSI-9000 CellScale
- 1.4 x 2.6 in (36 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 3, IP54 enclosure
- AC adapter / battery charger; 90-264VAC, 47-63 Hz (NA Plug Standard)

Part Number/Price

PART #	MSI PART #	DESCRIPTION	CAPACITY	RESOLUTION	EST. SHIP WEIGHT	PRICE
138486	502541-0001	MSI-9750 RF Portable Indicator	N/A	N/A	2.2 lb / 1 kg	\$1,830.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Accessories				
143709	12431	Replacement NiMH battery pack	1 lb / 0.45 kg	\$121.00
139484	503441-0001	AC adapter/battery charger input, 90–264 VAC, 47–63 Hz (NA plug standard)	1 lb / 0.45 kg	100.00

MSI-9000 CellScale™

Specifications

Enclosure:

NEMA 4, IP65 milled anodized aluminum with O-ring gaskets
NEMA 6, IP67 with optional long range antenna

Weight:

3.5 lb (1.6 kg)

Annunciators:

Eight 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:

Two sensor inputs and 6 terminal connections

Excitation:

5V (+5V 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, 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:

Two programmable comport ports supporting RS-232 or RS-422

Push Button Inputs:

Two 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:

Eight math channels programmable for arithmetic formula processing

Internal Setpoints:

Three 60V at 350 mA internal programmable solid state relay contacts

Warranty:

One-year limited

Approvals:

NTEP CC 05-077



APPROVALS



Standard Features

- 2.4 GHz frequency hopping spread spectrum
- Two scale inputs and excitation with remote sensing (see accessories for mating 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 set-point control
- Real time clock
- NEMA 4, IP65 enclosure (NEMA 6, IP67 with long range antenna)

MSI-9000 CellScale™

Part Number/Price

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
138361	502514-0001	MSI-9000, Two-channel A/D 9-30 VDC (consult for other configurations)	7 lb (3.5 kg)	\$2,750.00

Options/Accessories (Contact MSI for application consultation)

PART #	MSI PART #	DESCRIPTION	PRICE
Consult	Consult	NTEP approved (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	Consult
Consult	Consult	External 85-265 VAC, 47-440 Hz / 130-300VDC power supply for indoor and outdoor installations	Consult
Consult	Consult	Long Range Antenna, 300m-500m omni-directional with 9dBi gain, includes 10 ft / 3 m coaxial cable	Consult
Consult	Consult	9dBi or 14dBi gain corner reflector antenna	Consult
Consult	Consult	5dBi gain vehicle/cab mount whip antenna, includes 17 ft / 5.2 m coax cable	Consult
Consult	Consult	Single or Dual 4-20mA 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	Consult
Consult	Consult	Unterminated 4-20 mA cordset, 13 ft / 4 m (longer lengths available by special order)	Consult
Consult	Consult	Set-points output cable, 13 ft / 4m for access to internal SS relays	Consult
Consult	Consult	Unterminated serial cable for communication port connection, 13 ft / 4 m (longer lengths available by special order)	Consult
Consult	Consult	Prewired 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)	Consult
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)	Consult
Consult	Consult	Non-RF equipped version (CellScale RF modem removed)	Consult
Consult	Consult	MSI-9002 breakout/summing box; 4 in /one out or 4 in / two out	Consult
Consult	Consult	MSI-9008 multiplexer; 8 in / one out (expands single channel into 8)	Consult
Consult	Consult	WiFi Ethernet Connectivity (802.11b - contact factory for assistance)	Consult
Consult	Consult	12-Pin mating connector for single or dual scale input	Consult

MSI-9020 CellScale™ RF CellModem

Specifications

Enclosure:

NEMA 4, IP65 milled anodized aluminum with O-ring gaskets
NEMA 6, IP67 with optional long range antenna

Weight:

3.5 lb (1.6 kg)

Annunciators:

Three LED status lamps for Power, Data TX/RX and Configuration

Power Input:

9-30VDC (Internal 85-265VAC, 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:

One Comm Port with two connector interfaces for RS-232 and RS-422

Warranty:

One-year limited

Approvals:

NTEP CC 05-077



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 4, IP65 enclosure (NEMA 6, IP67 with Long Range Antenna)

Part Number/Price

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
138477	502536-0001	MSI-9020 RF CellModem	7 lb (3.5 kg)	\$2,240.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Consult	Consult	Internal 85-265 VAC, 47-440 Hz power supply	-	\$295.00
143466	12147	Long range antenna, 300 m-500 m omni-directional with 9dBi gain, includes 10 ft / 3 m coaxial cable	1 lb	415.00
Consult	Consult	9dBi or 14dBi gain corner reflector antenna	1 lb	Consult
Consult	Consult	5dBi gain vehicle/cab mount whip antenna, includes 17 ft / 5.2 m coax cable	1 lb	Consult
137567	502046-0001	Unterminated serial cable for communication port connection, 13 ft / 4 m longer lengths available by special order	1 lb	100.00
Consult	Consult	CellScale Virtual Monitor (CVM) application software (enables PC to emulate scale indicator)	Consult	Consult

MSI Scoreboards Wireless RF

Remote Displays

Specifications

Enclosure:

NEMA 4, IP56 rugged aluminum extruded case with integrated hood

Display:

Six-digit long-life LED 4 in or 6 in, and red or green characters available

Power:

AC/DC power supply 85-265 VAC, 47-440 Hz/130-300 VDC

Radio Link:

Frequency hopping spread spectrum at 2.4 GHz

Radio Link Effectance Range:

Typically 500 ft (150 m) indoors, 1000 ft (300 m) outdoors 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

- Long Life LED Technology (100,000 hour), viewable in direct sunlight
- Internal lightning protection
- Swivel mounting bracket (mounts to uneven surfaces and poles)
- Integrated hood
- Maximum decimal displayed 0.000
- Integrated data repeater
- AC/DC power supply: 85-265 VAC, 47-440 Hz/130-300 VDC
- RF Telemetry via 2.4 GHz frequency hopping spread spectrum modem

Part Number/Price

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
162899	-	Red LED, 4 in (101 mm), six digit display, TranSend Equipped	21lb (10 kg)	\$2,195.00
162900	-	Green LED, 4 in (101 mm), six digit display, TranSend Equipped	21lb (10 kg)	2,195.00
162897	-	Red LED, 6 in (152 mm), six digit display, TranSend Equipped	37lb (17 kg)	2,650.00
162898	-	Green LED, 6 in (152 mm), six digit display, TranSend Equipped	37lb (17 kg)	2,650.00
139056	502855-0006	Red LED, 4 in (101 mm), six digit display, Cell Scale Equipped	21lb (10 kg)	2,950.00
139055	502855-0005	Green LED, 4 in (101 mm), six digit display, Cell Scale Equipped	21lb (10 kg)	3,665.00
139052	502855-0002	Red LED, 6 in (152 mm), six digit display, Cell Scale Equipped	37lb (17 kg)	3,360.00
139051	502855-0001	Green LED, 6 in (152 mm), six digit display, Cell Scale Equipped	37lb (17 kg)	4,075.00

Options/Accessories

PART #	MSI PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Consult	Consult	12 VDC power input	-	Consult
Consult	Consult	24 VDC power input	-	Consult
Consult	Consult	Long range antenna, 300m-500m omni-directional with 9dBi gain, includes 10 ft / 3 m coaxial cable	1 lb	Consult
Consult	Consult	9dBi gain corner reflector antenna	1 lb	Consult
Consult	Consult	14dBi gain corner reflector antenna	1 lb	Consult
Consult	Consult	5dBi gain vehicle/cab mount whip antenna	1 lb	Consult
Consult	Consult	Non RF equipped configuration (requires hard wired interface)	-	(850.00)

Shackle Dimensions

Part Number/Price

PART NUMBER	MSI PART NUMBER	W.L.L. TONS	SIZE	A	B	C	D	E	F	H	L	N	P	WEIGHT
151357	10541	3 1/4	.63	1.06	.75	2.38	.63	1.69	1.56	4.22	2.94	.69	.63	1.58
151355	10538	6 1/2	.88	1.44	1.00	3.31	.88	2.28	2.13	5.75	4.03	.97	5.00	3.95
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
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
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
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
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
83454	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
151360	23650-0110	110	3.00	5.00	3.25	13.00	3.00	7.88	6.50	21.50	14.50	3.63	16.50	178.00
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
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
83458	N/A	250	4	8.50	5.00	20.00	4.50	13.00	12.00	35.00	24.50	6.50	22.68	600.00
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
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
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
Shims														
146534	30013-0112	(For use with 50K/70K Ton systems)												

