Indicators / Controllers

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Variable Range Simulator

1280 Enterprise[™] Series

Programmable Color Touchscreen Weight Indicator and Controller



Approvals









Standard Features

- Customizable color touchscreen with graphical user interface
- · User-defined softkeys, icons and graphics
- · Tactile keypad for scale operations, numeric entry and navigation
- On-screen keyboard available during entry mode (or external keyboard)
- Built-in web server for remote access, systems integration and data monitoring
- Multi-language operation and text entry
- Supports eight scales within five different kinds:
 - · Analog load cell, multi-range/interval weighing
 - Total scale summing
 - · Serial input scales
 - iQUBE² scales
 - · Program scales
- Six smart card slots for additional scale channels, serial ports, digital inputs and outputs, analog outputs and protocol interfaces
- iRite™ Programming Software
 - Five built-in applications: Truck in/out, recipe storage, filling/dosing, counting, checkweighing
 - Customizable user programs with event-based functions
 - 150 built-in functions for common processes & data tables
 - Customize and transfer data via email, FTP server and networked printers
 - Display data with line charts or bar graphs
 - · iRite reporting of iQUBE2 alerts
- Email, USB, Ethernet TCP/IP, Wi-Fi Direct®, two serial ports RS-232 or RS-485
- Alibi memory captures serial port transmissions
- Four configurable data-stream formats for PC, printers and remote displays
- 100 setpoints, 18 configurable setpoint types
- Eight digital I/O for control and pulse count
- Three different enclosure types: universal with tilt stand, panel mount and wall mount

Specifications

Power:

AC voltages: 100 to 240 VAC; 50/60 Hz

DC voltages: 11 to 30 VDC

Power Consumption:

Excitation Voltage:

10 VDC (+/- 5 VDC)

 16×350 ohm or 32×700 ohm 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 to 120 Hz 1.0 µV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal: 8,000,000 counts 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 × 480 pixel, 500 or 1,000 NIT Twelve-inch, 1280 × 800 pixel, 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)

Rating/Material:

Universal: IP69K Wall Mount: IP66

Panel Mount: IP69K, NEMA Type 4X and 12

Stainless steel 304 enclosure

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)

Warranty:

Two-year limited

EMC Immunity:

Approvals:

NTEP 15-001/Class III/IIIL 10,000d Measurement Canada AM-5980C, Class III/III HD 10,000d OIML R76/2006-A-NL1-19.23 Class III/IIII 10,000d EU Test Certificate TC8596 cULus Listed (Universal, Wall Mount) cULus Recognized (Panel Mount) CF Marked







7-inch model with keypad

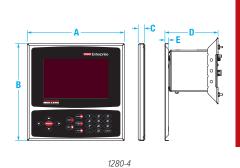
7-inch touch-only model

12-inch touch-only model

Numeric Keypad Models:







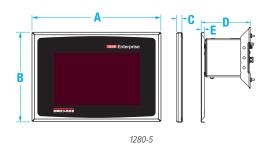
Dimensions

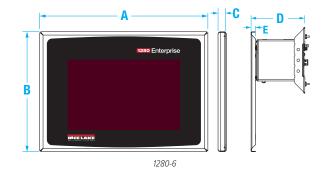
U	Universal (1280-2)					
Α	10.86 in (276 mm)	Ε	9.00 in (229 mm)			
В	9.00 in (229 mm)	F	12.50 in (318 mm)			
С	9.24 in (235 mm)	G	5.25 in (133 mm)			
D	4.97 in (126 mm)					

W	Wall Mount (1280-3)						
Α	14.92 in (379 mm)	Ε	19.64 in (499 mm)				
В	11.00 in (279 mm)	F	14.20 in (361 mm)				
С	18.22 in (463 mm)	G	8.08 in (205 mm)				
D	18.84 in (479 mm)						

P	Panel Mount (1280-4)					
Α	9.00 in (229 mm)	D	5.34 in (136 mm)			
B 9.00 in (229 mm)		Ε	0.32 in (8 mm)			
С	0.58 in (15 mm)					

Touch-only Models:





Dimensions

7-inch Touch-only (1280-5)					
Α	9.00 in (229 mm)	D	5.34 in (136 mm)		
В	6.22 in (158 mm)	Е	0.32 in (8 mm)		
С	0.58 in (15 mm)				

12	12-inch Touch-only (1280-6)					
Α	14.00 in (356 mm)	D	5.34 in (136 mm)			
В	10.00 in (254 mm)	Е	0.32 in (8 mm)			
С	0.58 in (15 mm)					

1280 Enterprise[™] Series

Programmable Color Touchscreen Weight Indicator and Controller

Part Number/Price

Part #	Description	Power	Display	Option Installed	Price		
Universal Enclosure	Universal Enclosure with 500 NIT Display (1280-2)						
171427 [†]	1280 Universal	115 VAC	500 NIT	Single Scale Card	\$3,550.00		
171441 [#]	1280 Universal	100-240 VAC	500 NIT	Single Scale Card	\$3,550.00		
171662 [†]	1280 Universal	115 VAC	500 NIT	Dual Scale Card	\$3,750.00		
172188 [#]	1280 Universal	100-240 VAC	500 NIT	Dual Scale Card	\$3,850.00		
Panel Mount Enclos	ure with 500 NIT Display (1	280-4)					
171663	1280 Panel Mount	100-240 VAC	500 NIT	Single Scale Card	\$3,425.00		
172186	1280 Panel Mount	100-240 VAC	500 NIT	Dual Scale Card	\$3,650.00		
Wall Mount Enclosu	re with 500 NIT Display (12	80-3)					
173673 [†]	1280 Wall Mount	115 VAC	500 NIT	Single Scale Card	\$3,950.00		
174143 ^{††}	1280 Wall Mount	100-240 VAC	500 NIT	Single Scale Card	\$3,950.00		
174144 [†]	1280 Wall Mount	115 VAC	500 NIT	Dual Scale Card	\$4,250.00		
174145 ##	1280 Wall Mount	100-240 VAC	500 NIT	Dual Scale Card	\$4,250.00		
Wall Mount Enclosu	re with 1000 NIT Display (12	280-3)					
172184 [†]	1280 Wall Mount	115 VAC	1,000 NIT	Single Scale Card	\$4,050.00		
172185 ^{††}	1280 Wall Mount	100-240 VAC	1,000 NIT	Single Scale Card	\$4,050.00		
206563 [†]	1280 Wall Mount	115 VAC	1,000 NIT	Dual Scale Card	\$4,250.00		
172187 ^{††}	1280 Wall Mount	100-240 VAC	1,000 NIT	Dual Scale Card	\$4,350.00		
Touch-only 7 inch w	ith 500 NIT Display (1280-5)					
186618	1280 Touch-only 7 in	100-240 VAC	500 NIT	Single Scale Card	\$3,450.00		
Touch-only 12 inch	with 1500 NIT Display (1280	-6)					
186465	1280 Touch-only 12 in	100-240 VAC	1,500 NIT	Single Scale Card	\$4,075.00		



† US plug (NA) - Type B



tt Euro Plug - Type E



(000) (Brazil) - Type N

9 UK Plug

Wall

10 AU/NZ Plug Wall



ttt BS1363 (UK) - Type G

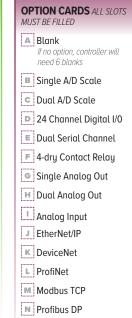


†††† AS 3112 (Australian) - Type I

Model Reference Chart

Choose any options to best fit your application and we customize

ENCLOSURE TYPE POWER TYPE DISPLAY TYPE CORD TYPE 1 Universal (1280-2) 1 AC 1 500NIT 1 US Plug 7 in Unviersal Universal 2 Panel (1280-4) 2 DC 2 1000NIT 2 Brazil Plug 3 Wall (1280-3) 7 in Universal Universal 4 Touch-only Panel 7 in 3 Euro Plug 3 500NIT (1280-5) 7 in Panel/Wall Universal 5 Touch-only Panel 12 in 4 1000NIT 4 US Plug (1280-6)7 in Panel/Wall Wall 5 1500NIT 5 Euro Plug 12 in Panel Wall 6 Brazil Plug **7** UK Plug Universal 8 AU/NZ Plug Universal



EtherCat PowerLink

Single A/D Scale



Excitation Voltage:

10 VDC bi-polar, 4 or 6 wire sensing 16 × 350 ohms per channel

Analog Input Signal:

-10 to +40 mV

Part #	Part # Description	
220026	Single scale A/D	\$475.00
166957	A/D sealing kit	\$13.00

Dual A/D Scale



Excitation Voltage:

10 VDC bi-polar, 4 or 6 wire sensing 8×350 ohms per channel

Analog Input Signal:

-10 to +40 mV

Part #	Description	Price
220027	Dual scale A/D	\$675.00
166957	A/D sealing kit	\$13.00

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	\$350.00
170008	DIO adapter, includes 60 pin flat ribbon cable, 24 in	\$130.00
170009	DIO adapter, includes 60 pin round cable, 60 in	\$155.00
170736	DIO adapter, includes 60 pin cable and cord grip, 60 in	\$155.00

^{* 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	\$425.00

Single Analog Out



16 bit, voltage output 0-10 VDC,current output 0-20mA, 4-20mA

Part #	Description	Price
165366	Single analog out	\$375.00

Dual Analog Out



16 bit, voltage output 0-10 VDC, current output 0-20mA, 4-20mA $\,$

Part #	Description	Price
164686	Dual analog out	\$550.00

Relay Card



Relay four-dry contact, max current 3A @ 30 VDC, 3A @250VAC

Part #	Description	Price
164689	Relay card	\$425.00

Analog Input



Analog Input Signal: ±10 VDC, ±100 mV, 0-20 mA

Part # Description		Price
164687	Dual analog input	\$650.00

Data Exchange with PLC/DCS Systems

EtherNet/IP



Part #	Description	Price
165792	EtherNet/IP, single port	\$620.00
208129	EtherNet/IP, dual port	\$805.00

DeviceNet



Part #	Description	Price
165793	DeviceNet	\$620.00

Profinet



Part #	Description	Price
165794	Profinet	\$620.00

Modbus TCP



Part #	Description	Price
165796	Modbus TCP	\$620.00

Profibus DP



Part #	Description	Price
165795	Profibus DP	\$620.00

EtherCAT



Part #	Description	Price
179533	EtherCAT	\$620.00

PowerLink



Part #	Description	Price
182319	PowerLink	\$905.00

1280 Enterprise[™] SeriesProgrammable Color Touchscreen Weight Indicator and Controller

Options/Accessories
To have your option factory installed, please specify when placing your order.

Part #	Description	Price		
Manuals a	Manuals and Software			
167659	Manual, Technical	\$35.00		
72809	Interchange database software	\$295.00		
164939	8 GB Micro SD card with SD and USB adapter	\$25.00		
195607	USB flash drive, 1 GB	\$9.00		
Extended	Display Cable Length for Touch Only Models			
182600	Display cable for 7 in (500 NIT) touch-only, 5 ft length	\$130.00		
182601	Display cable for 7 in (500 NIT) touch-only, 10 ft length	\$160.00		
187489	Display cable for 7 in (1,000 NIT) touch-only, 10 ft length	\$160.00		
180027	Display cable for 12 in touch-only, 5 ft length	\$160.00		
180028	Display cable for 12 in touch-only, 10 ft length	\$160.00		
Extended	Touch Cable Length for Touch Only Models			
180744	Touch cable for touch-only, 5 ft length	\$105.00		
180745	Touch cable for touch-only, 10 ft length	\$105.00		

Primary Component Parts

Part #	Part # Description	
Displays		
163400	7 in 500 NIT display	\$350.00
163399	7 in 1,000 NIT display	\$450.00
182992	12 in 1,500 NIT display	\$995.00
Boards		
179992	CPU board assembly includes face plate and fan plate	\$1,100.00
199157	Controller box, CPU, power supply, backplane	\$1,500.00
Power Su	pplies	
202512	AC power supply board	\$180.00
202514	DC power supply board	\$180.00
Overlays		
164121	Keypad, for panel & wall mount	\$75.00
164120	Touchscreen, for panel & wall mount	\$130.00
161731	Keypad, for universal	\$75.00
161730	Touchscreen, for universal	\$130.00
178498	Touchscreen, for 7 in touch-only panel mount	\$295.00
176126	Touchscreen, for 12 in touch-only panel mount	\$400.00
178161	Clear protective overlay display for 7 in display (pack of 5)	\$63.00
178163	Clear protective overlay keypad for 7 in display (pack of 5)	\$63.00

Cables and Receptacles
To have your option factory installed, please specify when placing your order.

Part #	Part # Connector Type Length			Price
USB Cables (Co	onnector is a male	plug)		
79074	A UNSEALED	B UNSEALED	2 m	\$35.00
124700	A SEALED	B SEALED	3 m	\$90.00
126477	A SEALED	A UNSEALED	3 m	\$90.00
124701	A SEALED	B UNSEALED	3 m	\$90.00
124702	B SEALED	A UNSEALED	3 m	\$90.00
152434	A UNSEALED	Micro A UNSEALED	2 m	\$55.00
USB Receptacl	es (Receptacle is	a socket)		
176790 Panel Mount	A SEALED	A UNSEALED	0.75 m	\$105.00
126476 Wall Mount	A SEALED	A UNSEALED	0.5 m	\$90.00
172735 Universal	A SEALED	A UNSEALED	0.25 m	\$90.00
Ethernet Cable	es			
72697	RJ-45 UNSEALED	RJ-45 UNSEALED	2 m	\$40.00
124706	RJ-45 SEALED	RJ-45 SEALED	3 m	\$90.00
124707	RJ-45 SEALED	RJ-45 UNSEALED	2 m	\$90.00
Ethernet Rece	otacles (Receptac	le is a socket)		
176789		-45 LED	0.75 m	\$105.00
172734	RJ- SEA	-45 LED	0.5 m	\$90.00
126353	RJ- SEA	-45 LED	0.25 m	\$90.00
Cable and Rec	eptacle Accessor	ies		
124694	Cover for sealed receptacles			\$13.00
124689	Cover for flash driver mounts on sealed receptacle			\$25.00

Unsealed Connectors





Part Number/Price

Part #	Description	Est. Weight	Price
139381	MSI-8000 RF remote display	5 lb	\$1,415.00

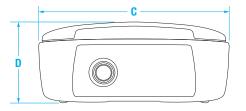
Options/Accessories

Part #	Description	Est. Weight	Price
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 RF remote display	3 lb	\$165.00
149550	Universal 115/230 VAC 50/60 Hz (EC plug standard) battery charger for MSI 8000 RF remote display	1 lb	\$160.00
150964	DB9 female serial interface cable for MSI-8000 RF remote display	1 lb	\$200.00
151095	Audible alarm	_	\$315.00

Dimensions

MSI-8000			
Α	8.00 in (203 mm)	С	3.85 in (98 mm)
В	3.85 in (98 mm)	D	1.37 in (35 mm)





Standard Features

- 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™, MSI-9600HT and MSI-6360
- LCD display
- 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)

(Contact MSI for application consultation)

Specifications

Enclosure:

NEMA Type 4, IP65

Weight:

0.98 lb (445 g)

Keypad:

On/Off, Zero (100%), Tare, Print and two userdefined 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 screen

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 to 300 ft, line of sight; for longer range consult factory

Connector:

Four-pin Turck connector for charging and RS-232 communication

Warranty:

One-year limited



Approvals



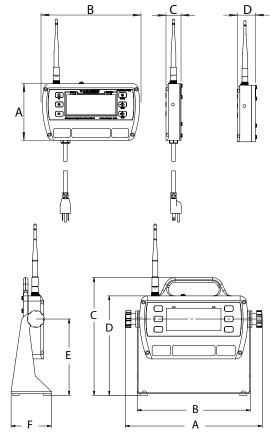
Standard Features

- 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™, MSI-9600HT and MSI-6360
- LCD display
- IP68 milled aluminum enclosure
- Time and date
- Membrane keypad for remote-control functionality
- User-definable function keys for added versatility
- Swivel tilt stand

Dimensions

MSI-	MSI-8000HD		
Α	5.09 in (129 mm)		
В	8.98 in (228 mm)		
С	1.35 in (34 mm)		
D	1.63 in (41 mm)		

With Tilt Stand			
Α	11.06 in (281 mm)		
В	9.13 in (232 mm)		
С	9.50 in (241 mm)		
D	8.02 in (204 mm)		
E	6.16 in (156 mm)		
F	3.25 in (83 mm)		



Options

(Contact MSI for application consultation)

- Up to 8 configurable relay outputs
- · Wi-Fi communications
- 802.15.4 Serial RF
- FHSS
- · Wired Ethernet

Specifications

Power:

90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC Optional battery power module available

Excitation Voltage:

4.8V current limited and over-voltage protected

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 onlu

A/D Inputs:

Two independent or summing load cell inputs

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 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Dual RS-232 communication ports

Optional Communications:

Wi-Fi

Serial RF (Single Sequence or FHSS)

Annunciators:

Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs

Channels: 1, 2, 3, 4, TTL

Display:

Six-digit 1.0 in (26.4 mm) LCD

Units Displayed:

Pounds, kilograms, tons, metric tons, kilonewtons

Keys/Buttons:

On/Off, Zero (100%), Tare, Print, and Two userdefined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

Rating/Material:

Enclosure: NEMA Type 4, IP68 milled anodized aluminum with O-ring gaskets

Temperature Range:

Operating: -4 °F to 140 °F (-20 °C to 60 °C) Certified: 14 °F to 104 °F (-10° °C to 40 °C)

Warranty:

One-year limited

Approvals:

NTEP CC 15-110 (-10 °C to 40 °C)



Part Number/Price

Part #	Description	Est. Weight	Price
153591	ScaleCore RF/remote display/85 to 265 VAC	5 lb (2.5 kg)	\$1,541.00
154853	ScaleCore RF/remote display/internal battery	5 lb (2.5 kg)	\$1,670.00
160476	ScaleCore RF/remote display/7 to 36 VDC	5 lb (2.5 kg)	\$1,485.00
159377	ScaleCore RF/remote display/18 to 72 VDC	5 lb (2.5 kg)	\$1,520.00
159376	ScaleCore RF/remote display/9 to 36 VDC	5 lb (2.5 kg)	\$1,520.00
158427	Meter/2 A/D inputs/85 to 265 VAC (non RF)	5 lb (2.5 kg)	\$1,875.00
158428	Meter/2 A/D inputs/internal battery (non RF)	5 lb (2.5 kg)	\$1,990.00
160478	Meter/2 A/D inputs/7 to 36 VDC (non RF)	5 lb (2.5 kg)	\$1,670.00
159381	Meter/2 A/D inputs/18 to 72 VDC (non RF)	5 lb (2.5 kg)	\$1,710.00
159380	Meter/2 A/D inputs/9 to 36 VDC (non RF)	5 lb (2.5 kg)	\$1,710.00
158425	RF Meter/2 A/D inputs/85 to 265 VAC	5 lb (2.5 kg)	\$1,895.00
158426	RF Meter/2 A/D inputs/internal battery	5 lb (2.5 kg)	\$2,065.00
160477	RF Meter/2 A/D inputs/7 to 36 VDC	5 lb (2.5 kg)	\$1,895.00
159379	RF Meter/2 A/D inputs/18 to 72 VDC	5 lb (2.5 kg)	\$1,905.00
159378	RF Meter/2 A/D inputs/9 to 36VDC	5 lb (2.5 kg)	\$1,905.00
176958	Wi-Fi meter/85/265 VAC	5 lb (2.5 kg)	\$1,575.00
176960	Wi-Fi meter/internal battery	5 lb (2.5 kg)	\$1,710.00
176964	Wi-Fi meter/7 to 36 VDC	5 lb (2.5 kg)	\$1,520.00
176966	Wi-Fi meter/9 to 36 VDC	5 lb (2.5 kg)	\$1,560.00
176968	Wi-Fi meter/18 to 72 VDC	5 lb (2.5 kg)	\$1,560.00

Options/Accessories

Part #	Description	Price
155173	MSI-8000HD spare tilt stand option kit	\$90.00
155193	MSI-8000HD Ethernet TCP/IP option kit wired	\$430.00
162178	Antenna extension kit, 6 ft	\$490.00
148624	MSI-8000HD serial RS-232 cable	\$140.00
158779	MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5A or 100 VDC 0.4A	\$375.00
158780	MSI-8000HD two each solid state relay option kit, 60 Vpk 2.7A	\$375.00
158781	MSI-8000HD two each solid state relay option kit, 200 Vpk 0.9A	\$375.00
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	\$165.00
149550	Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device	\$160.00
171203	Audible alarm kit	\$375.00
176963	Serial print cable (for GoDex printer)	\$165.00
Relays		
172490	Expanded relay kit, four-channel, 12A 5V, latching relays	Consult
172492	Expanded relay kit, four-channel, 12A 5V, momentary relays	Consult
Consult	Expanded relay kit, four-channel, 0.9A 200Vpk, AC/DC solid state relays	Consult
172495	Expanded relay kit, eight-channel, 12A 5V, momentary relays	Consult
172500	Expanded relays option kit, four-channel, 3A, 60Vpk solid state Form C relays	Consult
172501	Expanded relays option kit, eight-channel, 3A 60Vpk, solid state Form C relays	Consult
172502	Expanded relays option kit, eight-channel, 0.9A 200Vpk, solid state Form C relays	Consult
171676	Expanded relays option kit, eight-channel, 12A 5V, latching relays	Consult

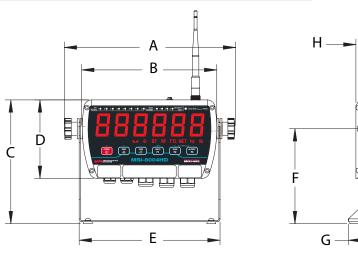


Part Number/Price

Part #	Description	Price
Indicator		
196904	4CH AC, red/green instant power-on, 85~264VAC, 47~440 Hz, 120~370 VDC	\$2,400.00
178265	4CH AC, red/green 85~264 VAC, 47~440 Hz, 120~370 VDC	\$2,170.00
178269	4CH DC 8-32 V, red/green, best for external 12 V SLA batteries	\$2,205.00
178271	4CH DC 9-36 V Iso, red/green, do not use on 12 V Vehicle Systems	\$2,310.00
183481	4CH 5 V Red/Green with external rechargeable battery	\$2,185.00
Remote Disp	lay	
178281	AC, red/green 85~264 VAC, 47~440 Hz, 120~370 VDC	\$2,120.00
178283	DC, 8-32 V, red/green best for external 12 V SLA battery	\$2,075.00
178285	DC, 9-36 V Iso, red/green, do not use on 12 V vehicle systems	\$2,160.00
183479	4CH 5 V red/green with external rechargeable battery	\$1,875.00

Dimensions

MSI	MSI-8004HD				
With	With Tilt Stand				
Α	11.10 in (282 mm)	Е	9.13 in (232 mm)		
В	8.76 in (223 mm)	F	6.16 in (156 mm)		
С	8.02 in (204 mm)	G	3.25 in (83 mm)		
D	5.09 in (129 mm)	Н	1.66 in (42 mm)		



Standard Features

- LED display
- IP65 rugged milled aluminum enclosure
- · Backlit membrane keypad for user functioning and controls
- Tilt bracket included
- · Color changing display (via setpoints)

Options

(Contact MSI for application consultation)

- · Expanded relay outputs
- · Battery pack for mobile operation
- Second radio module for additional network connectivity

Specifications

Power:

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

Excitation Voltage:

4.8 V current limited and over-voltage protected

Functions:

Peak hold, high resolution, total, view total net/gross, units switching

Units:

Pounds and kilograms

Channels:

1, 2, 3, 4, TTL

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 Relays:

Two 5 V coil, 250 VAC, 5 A 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

RF Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports

Two RS-232 hard wired communication ports

Annunciators:

Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs

Displau:

Six-digit, 1.5 in (38 mm) LED display with red/green/ orange coloring

Keys/Buttons:

On/Off, Zero, Tare, Print and two user-defined keys

Temperature Range:

Operating: -4 °F to 140 °F (-40 °C to 60 °C) Certified: 23 °F to 104 °F (-5 °C to 40 °C)

Rating/Material:

NEMA Type 4, IP65 milled anodized aluminum

Warranty:

One-year limited

Approvals:

NTEP 17-036

Measurement Canada AM-6068

INDICATORS / CONTROLLERS

Options/Accessories

Part #	Description	Price
139309	Antenna kit, long range omni-directional, 9 dBi with 3 m coax Intended for omni-directional mast mounting (up to 2" dia). Beam-width. Must be mounted vertically.	\$510.00
139310	Antenna kit, corner reflector, 9 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" dia). Beam-width: 75° Elevation, 65° azimuth.	\$505.00
139311	Antenna kit, corner reflector, 12 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" dia). Beam-width: 50° Elevation, 36° azimuth.	\$535.00
139312	Antenna kit, YAGI, 15 dBi with 3 m coax highly directional wall or mast mounting (up to 2" dia). Beam-width: 30° elevation, 34° azimuth.	\$415.00
139313	Antenna kit, vehicle mount, 5 dBi with 5 m coax omni-directional. Mounts in 3/4" hole.	\$160.00
162178	Antenna extension kit, 6 ft	\$490.00
197013	Antenna extension kit, 20 ft	\$520.00
155173	Spare kit, tilt stand	\$90.00
199105	Audible alarm not compatible with battery versions	Consult
22436	Cable, Comm DB9F 9-pin fem one end stripped and tinned on other end 6' in 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.	\$70.00
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).	\$235.00
184131	8004 option kit, WiFi with SMA antenna	\$200.00
187424	8004 option kit, 2nd Xbee with TNC antenna	\$210.00
182224	Power adapter, 12 VDC 5 VDC dual USB car charger plus 3 ft USB cable	\$60.00
Relays		
172500	Expanded relays option kit, four-channel, 3A, 60VPK SSR form C	Consult
172501	Expanded relays option kit, eight-channel, 3A 60VPK, SSR form C	Consult
Consult	Expanded relays option kit, four-channel, 0.9A 200VPK, AC/DC SSR Form C	Consult
172502	Expanded relays option kit, eight-channel, 0.9A 200VPK, SSR form C	Consult
172492	Expanded relays option kit, four-channel, 12A 5 V, momentary	Consult
172495	Expanded relays option kit, eight-channel, 12A 5 V, momentary	Consult
172490	Expanded relays option kit, four-channel, 12A 5 V, latching relays	Consult
171676	Expanded relays option kit, eight-channel, 12A 5 V, latching relays	Consult

MSI Scoreboards Wireless RF

Featuring LaserLight2 Remote Displays



• Compatible with: MSI-7300 Dyna-Link 2, MSI-3460

Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001 TranSend™, MSI-9600HT, MSI-6360, MSI-8000HD and MSI-8004HD

- · Integrated data repeater
- 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
- 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

(Contact MSI for application consultation)

Specifications

Enclosure:

NEMA Type 4, IP66

Display:

Six-digit long-life LED, 4 in or 6 in

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

Radio Link:

Direct sequence spread spectrum at 2.4GHz

Radio Link Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Standard Antenna:

1/2 wave 2 dBi, articulated

Warranty:

One-year limited

Echo Data Output:

RS-232

· Tilt mounting bracket Part Number/Price

Standard Features

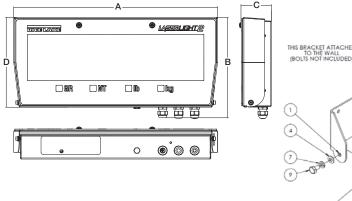
Part #	Description	Est. Weight	Price
178004	LaserLight2, 4 in with ScaleCore RF and tilt bracket		\$2,535.00
178006	LaserLight2, 6 in with ScaleCore RF and tilt bracket		\$3,005.00
178341	Laserlight2, 4 in with tilt bracket		\$2,410.00
178342	Laserlight2, 6 in with tilt bracket		\$2,870.00

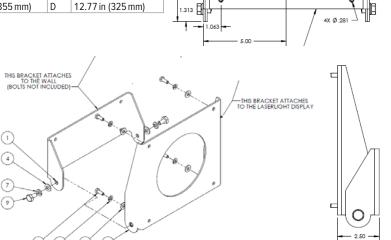
Options/Accessories

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	\$510.00
139310	9 dBi gain corner reflector antenna	1 lb	\$505.00
139311	12 dBi gain corner reflector antenna	1 lb	\$535.00
139313	5 dBi gain vehicle/cab mount whip antenna	1 lb	\$160.00
162178	Antenna extension kit, 6 ft		\$490.00
197013	Antenna extension kit, 20 ft		\$520.00
178318	Replacement tilt bracket, LaserLight2		\$275.00

Dimensions

MS	MSI Scoreboards Wireless RF						
22-	22-inch enclosure (4-inch model) 31-inch enclosure (6-inch model))		
Α	22.28 in (565 mm)	С	3.28 in (85 mm)	Α	30.63 in (780 mm)	С	3.73 in (95 mm)
В	10.96 in (280 mm)	D	9.80 in (250 mm)	В	13.94 in (355 mm)	D	12.77 in (325 mm)





Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitte	ers		
5-6 VDC P	ower Input		
159207	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2lb	\$1,055.00
161949	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2lb	\$1,210.00
176648	Four-channel transmitter, no relays, Wi-Fi	2lb	\$1,115.00
176652	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	\$1,265.00
7-36 VDC	Power Input		
159470	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,090.00
161951	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2lb	\$1,265.00
176650	Four-channel transmitter, no relays, Wi-Fi	2lb	\$1,145.00
176653	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	\$1,325.00
85-265 V	AC Power Input		
159469	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2lb	\$1,115.00
161950	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2lb	\$1,295.00
176647	Four-channel transmitter, no relays, Wi-Fi	2lb	\$1,175.00
176651	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	\$1,370.00
Receivers			
5-6 VDC P	ower Input		
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	\$1,265.00
160017	MSI-7000 four-channel receiver to provide RS232 serial output	2 lb	\$1,285.00
7-36 VDC	Power Input		
159478	MSI-7000 four-channel receiver to provide RS232 serial output	2lb	\$1,340.00
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	\$1,425.00
85-265 V	AC Power Input		
159477	Four-channel receiver to provide RS232 serial output	2 lb	\$1,190.00
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	\$1,530.00

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
- Serial communication cable included with all transmitters
- IP68 milled aluminum enclosure

(Contact MSI for application consultation)

Specifications

MSI-7000: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7001: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7000HD: 7-36 VDC, 9-36 VDC, 85-265 VAC MSI-7001HD: 5-6 VDC, 7-36 VDC, 9-36 VDC, 85-265 VAC

Excitation Voltage:

Transmitter: +4.8 VDC, 16 x 350 ohm or 32 x 700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

Operating Temperature:

-40 °F to 185 °F (-40 °C to 85 °C)

Rating/Material:

MIS-7000/MSI-7001: IP68, die-cast aluminum encloser MSI-7000HD/MSI-7001HD: IP68, durable milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

Wireless Load Cell Interface System

Options/Accessories

Part #	Description	Price
162172	Charger, TranSend™ for 6 V SLA battery	\$70.00
162173	Battery, TranSend 6 V SLA	\$135.00
162175	Enclosure, TranSend for 6 V SLA battery	\$350.00
160109	AC adapter, TranSend 6 V	\$59.00
143531	Power cord, 6 V SLA battery charger EU	\$31.00
143533	Power cord, 6 V SLA battery charger, Australia	\$54.00
143534	Power cord, 6 V SLA battery charger, UK	\$47.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$59.00
162178	Antenna extension kit, 6 ft coax cable	\$490.00
139309	Antenna kit, long-range Omni with 3 m coax cable	\$510.00
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$505.00
197013	Antenna extension kit, 20 ft	\$520.00
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$535.00
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$415.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$480.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$160.00
150964	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector	\$200.00
150965	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector	\$180.00
145085	RS-232 serial cable, unterminated	\$135.00

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitt	ers		
5-6 VDC F	Power Input		
160330	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$995.00
176655	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,050.00
7-36 VDC	Power Input		
160329	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,055.00
176656	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,115.00
85-265 V	AC Power Input		
160328	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,090.00
176654	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,145.00
Receivers			
5-6 VDC F	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	\$1,055.00
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	\$1,115.00
161941	Single-channel receiver to provide RS232 serial output	2 lb	\$825.00
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	\$1,155.00
161939	Single-channel receiver to provide RS232 serial output	2 lb	\$940.00
160333	Single-channel receiver to provide an analog output signal: $4-20\text{mA}$, $0-20\text{mA}$, $0-5\text{VDC}$, $0-10\text{VDC}$, $\pm5\text{VDC}$, $\pm10\text{VDC}$, RF $802.15.4$, 2.4GHz	2 lb	\$1,265.00
85-265 V	AC 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	\$1,210.00
161938	Receiver to provide RS232 serial output	2 lb	\$1,005.00
160332	7001AN AC power	-	\$1,325.00

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
- Serial communication cable included with all transmitters
- IP68 milled aluminum enclosure

(Contact MSI for application consultation)

Specifications

MSI-7000: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7001: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7000HD: 7-36 VDC, 9-36 VDC, 85-265 VAC MSI-7001HD: 5-6 VDC, 7-36 VDC, 9-36 VDC, 85-265 VAC

Excitation Voltage:

Transmitter: +4.8 VDC, 16 x 350 ohm or 32 x 700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

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

Rating/Material:

MIS-7000/MSI-7001: IP68, die-cast aluminum encloser MSI-7000HD/MSI-7001HD: IP68, durable milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

Wireless Load Cell Interface System

Options/Accessories

Optioi	13/Accessories	
Part #	Description	Price
162177	Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers	\$135.00
164865	Cable, 4 m, one-channel, mV/V output, LC input	\$145.00
165648	Cable, 5 m, one-channel, mV/V output, LC input	\$165.00
165651	Cable, 10 m, one-channel, mV/V output, LC input	\$230.00
162184	Load cell connector, TranSend, field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers.	\$62.00
162185	Load cell connector, TranSend, field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers.	\$62.00
162186	Load cell connector, TranSend, field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers.	\$62.00
162187	Load cell connector, TranSend, field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers.	\$62.00
145084	Cable, 2 m, one-channel, analog output	\$64.00
144400	Cable, 5 m, one-channel, analog output	\$100.00
168903	Cable, 10 m, one-channel, analog output	\$150.00
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
162172	Charger, TranSend™ for 6 V SLA battery	\$70.00
162173	Battery, TranSend 6 V SLA	\$135.00
162175	Enclosure, TranSend for 6 V SLA battery	\$350.00
160109	AC adapter, TranSend 6 V	\$59.00
143531	Power cord, 6 V SLA battery charger EU	\$31.00
143533	Power cord, 6 V SLA battery charger, Australia	\$54.00
143534	Power cord, 6 V SLA battery charger, UK	\$47.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$59.00
162178	Antenna extension kit, 6ft coax cable	\$490.00
139309	Antenna kit, long-range omni with 3 m coax cable	\$510.00
	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$505.00
197013	Antenna extension kit, 20 ft	\$520.00
	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$535.00
	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$415.00
	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$480.00
	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$160.00
	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector	\$200.00
	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector	\$180.00
145085	RS-232 serial cable, unterminated	\$135.00

TranSend™ MSI-7000HD

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitte	ers		
7-36 VDC	Power Input		
177944	Four-channel 7-36VDC, three coil relays, 802.15.4		\$2,225.00
177997	Four-channel 7-36VDC, three coil relays, Wi-Fi		\$2,235.00
9-36 VDC	Power Input		
177945	Four-channel 9-36VDC isolated, three coil relays, 802.15.4		\$2,320.00
177998	Four-channel 9-36VDC isolated, three coil relays, Wi-Fi		\$2,345.00
85-265 V	AC Power Input		
177942	Four-channel 85-265VAC, three coil relays, 802.15.4		\$2,280.00
177995	Four-channel 85-265VAC, three coil relays, Wi-Fi		\$2,300.00

Options/Accessories

Part #	Description	Price
187424	Dual XBee option kit for 7000HD with TNC antenna	\$210.00
162178	Antenna extension kit, 6 ft coax cable	\$490.00
139309	Antenna kit, long range Omni with 3 m coax cable	\$510.00
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$505.00
197013	Antenna extension kit, 20 ft	\$520.00
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$535.00
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$415.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$480.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$160.00
148624	RS-232/RS-485 serial cable	\$140.00
143348	Cordset IP68 5-pin male	\$135.00
141263	12V Battery Half Plate, requires separate power cable	\$1,550.00

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
- · Serial communication cable included with all transmitters
- IP68 milled aluminum enclosure

(Contact MSI for application consultation)

Specifications

MSI-7000: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7001: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7000HD: 7-36 VDC, 9-36 VDC, 85-265 VAC MSI-7001HD: 5-6 VDC, 7-36 VDC, 9-36 VDC, 85-265 VAC

Excitation Voltage:

Transmitter: +4.8 VDC, 16 x 350 ohm or 32 x 700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

Operating Temperature: $-40 \, ^{\circ}\text{F} \text{ to } 185 \, ^{\circ}\text{F} \text{ (-}40 \, ^{\circ}\text{C to } 85 \, ^{\circ}\text{C)}$

Rating/Material:

MIS-7000/MSI-7001: IP68, die-cast aluminum encloser MSI-7000HD/MSI-7001HD: IP68, durable milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

TranSend™ MSI-7001HD

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitte	rs		
5-6 VDC			
178010	Two-channel 5-6VDC, 802.15.4		\$1,240.00
178018	Two-channel 5-6VDC, Wi-Fi		\$1,340.00
7-36 VDC			
178011	Two-channel 7-36VDC, 802.15.4		\$1,325.00
178019	Two-channel 7-36VDC, Wi-Fi		\$1,350.00
9-36 VAC I	solated		
178012	Two-channel 9-36VDC isolated, 802.15.4		\$1,340.00
178020	Two-channel 9-36VDC isolated, Wi-Fi		\$1,425.00
85-265 VA	С		
178021	Two-channel 85-265VAC, 802.15.4		\$1,370.00
178017	Two-channel 85-265VAC, W-iFi		\$1,400.00

Options/Accessories

Part #	Description	Price
162172	Charger, TranSend™ for 6 V SLA battery	\$70.00
162173	Battery, TranSend 6 V SLA	\$135.00
162175	Enclosure, TranSend for 6 V SLA battery	\$350.00
160109	AC adapter, TranSend 6 V	\$59.00
143531	Power cord, 6 V SLA battery charger EU	\$31.00
143533	Power cord, 6 V SLA battery charger, Australia	\$54.00
143534	Power cord, 6 V SLA battery charger, UK	\$47.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$59.00
162178	Antenna extension kit, 6 ft coax cable	\$490.00
139309	Antenna kit, long range Omni with 3 m coax cable	\$510.00
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$505.00
197013	Antenna extension kit, 20 ft	\$520.00
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$535.00
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$415.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$480.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$160.00
148624	RS-232/RS-485 serial cable	\$140.00
143348	Cordset IP68, 5-pin	\$135.00

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
- Serial communication cable included with all transmitters
- IP68 milled aluminum enclosure

(Contact MSI for application consultation)

Specifications

MSI-7000: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7001: 5-6 VDC, 7-36 VDC, 85-265 VAC MSI-7000HD: 7-36 VDC, 9-36 VDC, 85-265 VAC MSI-7001HD: 5-6 VDC, 7-36 VDC, 9-36 VDC, 85-265 VAC

Excitation Voltage:Transmitter: +4.8 VDC, 16 x 350 ohm or 32 x 700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

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

Rating/Material:

MIS-7000/MSI-7001: IP68, die-cast aluminum encloser MSI-7000HD/MSI-7001HD: IP68, durable milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

ScaleCore Webserver

Wireless Network Router/Webserver



Approvals



Part Number/Price

Part #	Description	Price
207943	ScaleCore Webserver, 5 VDC and PoE	\$3,820.00
209704	ScaleCore Webserver, 7-14 VDC and PoE	\$3,820.00
210817	ScaleCore Webserver, 85-265 VAC and PoE wall cube	\$3,820.00

Options/Accessories

Part #	Description	Price
Consult	Extended-range antennas	Consult
213559	MSI-8000 handheld remote display with Wi-Fi, (only to be used with MSI ScaleCore Webserver sustems and applications)	\$1,560.00

Standard Features

- Display and control multiple ScaleCore based scales, indicators, remote displays and receivers through network connected devices using a web browser, including cell phones, tablets, and PCs.
- Capable of functioning either with an existing Wi-Fi network or as its own Wi-Fi router
- Can be powered by a dedicated power input or directly through the Ethernet cable where PoE (Power over Ethernet) is supported
- RS-232 communications at up to 460 Kbps
- Scale / load cell summing
- Tiered login to limit scale functionality for different levels of users

(Contact MSI for application consultation)

Specifications

Minimum System Requirements:

Will display on any device with a web browser supporting HTML 5

Connected ScaleCore based MSI scales and indicators are required to have the optional Wi-Fi radio module

Connectivitu:

Wi-Fi 2.4 GHz IEEE 802.11g **Gigabit Ethernet** 2 × USB 2.0 Interface RS-232 Serial

Status Annunciators:

Units (lb, kg, short tons (tn), metric tons (t), (NONE) gross/net, motion, center of zero

Operating Temperature: $-10 \,^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$ (14 $^{\circ}\text{F}$ to 104 $^{\circ}\text{F}$)

Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Enclosure:

IP65, aluminum black powder coated (excludes 85 to 265 VAC model)

5 to 6 VDC, 7 to 14 VDC, 85 to 265 VAC, PoE

Warranty:

One year limited

Approvals:

NTEP CC 21-098 Classes III and IIIL at 10,000d



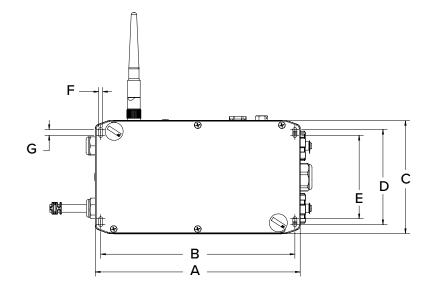
INDICATORS / CONTROLLERS

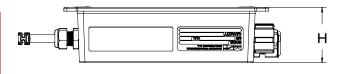
ScaleCore Webserver

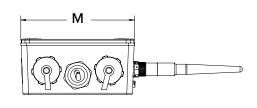
Wireless Network Router/Webserver

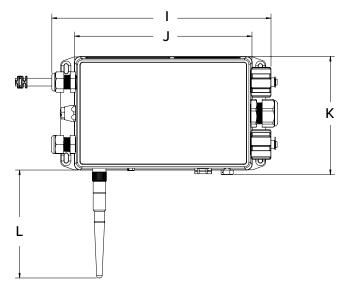
Dimensions

ScaleCore Webserver				
Α	8.54 in (217 mm)	Н	2.23 in (57 mm)	
В	8.09 in (205 mm)	I	9.13 in (232 mm)	
С	4.70 in (119 mm)	J	7.40 in (188 mm)	
D	3.97 in (101 mm)	K	4.90 in (124 mm)	
Е	3.47 in (88 mm)	L	4.50 in (114 mm)	
F	0.17 in (4 mm)	М	4.70 in (119 mm)	
G	0.25 in (6 mm)			











Computer Screenshot



Tablet Screenshot



Phone Screenshot

Rugged Remote



Approvals

((

Part Number/Price

Part #	Description	Price
173014	MSI Rugged Remote control	\$355.00

Standard Features

- Handheld
- 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[™], MSI-9600HT and MSI-6360
- Four button interface: Power, Zero, Tare, Function

Options

(Contact MSI for application consultation)

• CE approved version available, consult for more information

Specifications

Power

Battery operated, three (3) AAA alkaline batteries

Function:

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 and setpoints

Radio Effective Range:

Typically 100-300 ft line of sight

Warranty:

One-year limited

Approval:

CE Marked versions available





SCT-1100-AN in Plastic Enclosure

Approvals







Measurement UK Canada



Standard Features

- Up to four independent scales or four load cell inputs
- · Quick menu for real and theoretical calibration
- Red LED display
- DIN rail mountable
- Configurable calibration and setup parameters from keyboard
- Calibration using linearization points
- Reading of the net, gross and tare weights, clearing, semi-automatic and pre-settable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, digital input for key press
- Modbus RU or ASCII protocol
- Easy configuration with Rice Lake Tools software

Part Number/Price

Part #	Description	Est. Weight	Price
202101	Indicator, SCT-1100-AN four load cell input with Analog Output	1 lb	\$510.00
197011	Indicator, SCT-1100-AN four load cell input with Analog Output in plastic enclosure	1 lb	\$645.00

NOTE: PN 182588 is superseded by 202101

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	\$400.00
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply	1 lb	\$160.00



SCT-1000 Serial to Ethernet converter

Specifications

Power:

12/24 VDC

Power Consumption:

70 mA min to 100 mA max

Excitation Voltage:

5VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

0.3 µV/graduation minimum

A/D Sample Rate:

Four channel A/D 24-bit sigma-delta conversion, up to 200 conv./sec. auto select

Resolution:

Internal: 1,500,000 counts Display: 800,000

Digital I/O:

Two inputs: 12/24 VDC

Two outputs:150 mA 48 VAC/150 mA 60 VDC

Serial Ports:

Modbus RTU or ASCII selectable/bidirectional (both ports)

(1) RS-485 for connection to a PC or weight repeater (1) RS-232 for connection to a PC or printer

Analog Output (if equipped):

Opto isolated, 16-bit

0 to 20mA, 4 to 20mA (Maximum 350 ohm) 0 to 5 VDC, 0 to 10 VDC (Minimum 10,000 ohm)

Annunciators:

Net, center of zero, stability

Display:

Six-digit (10 mm), red LED

Keus/Buttons:

Five key, membrane panel, tactile feel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

Dimensions:

 $(L \times W \times H)$ 4.17 × 3.54 × 2.28 in

 $(106 \times 90 \times 58 \text{ mm})$

Temperature: 5 °F to 104 °F (-15 °C to 40 °C)

Humidity:

85% non-condensing

Rating/Material:

Enclosure: NEMA Type 4, plastic Clear cover: six PG9 cord grips

Warranty:

One-year limited

Approvals:

NTEP 20-046

Measurement Canada AM-6165C OIML R76/2006-A-GB1-19.17 **UKCA Marked** cULus Listed





SCT2200 Pictured with optional EtherNet/IP Module

Approvals











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
- DIN rail mountable
- Calibration using linearization points
- Reading of the net, gross and tare weights, clearing, semi-automatic and presettable tare setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, simulation of key pressure, Modbus RTU or ASCII protocol
- Two RS-485 port for "daisy-chain" 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
- · Easy configuration with Rice Lake Tools software

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitter	s		
202103 *	Indicator, SCT-2200 for scale input to be used with fieldbus module	1 lb	\$355.00
202104 *	Indicator, SCT-2200-AN with analog output	1 lb	\$485.00
Fieldbus			
182592	Fieldbus, SCT-2200, Profinet module	1 lb	\$595.00
194343	Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi	1 lb	\$595.00
182593	Fieldbus, SCT-2200, Profibus module	1 lb	\$385.00
182591	Fieldbus, SCT-2200, EtherNet/IP module	1 lb	\$595.00
182596	Fieldbus, SCT-2200, DeviceNet module	1 lb	\$595.00
182598	Fieldbus, SCT-2200, EtherCAT module	1 lb	\$590.00
182597	Fieldbus, SCT-2200, CANopen module	1 lb	\$590.00
196694	Fieldbus, SCT-2200, Modbus TCP module	1 lb	\$595.00
182599	Cable with RJ45 plugs, 6 in length	1 lb	\$12.00
212772 **	Fieldbus, SCT-2200, Profibus module	1 lb	\$385.00
MOTE BUILDS	507:		

NOTE: PN 182587 is superseded by 202103 and PN 182589 is superseded by 202104.

*How to Order the SCT-2200 for use with fieldbus module

Order 1 RJ45 cable for every Scale module connected to a Fieldbus module.
** Compatible with 682 indicator

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply	1 lb	\$160.00

Specifications

Power: 12/24 VDC

Power Consumption:

70 mA min to 100 mA max

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

0.3 μV/graduation minimum

A/D Sample Rate:

One channel A/D 24-bit sigma-delta conversion, up to 200 conv./sec. auto select

Resolution:

Internal: 1,500,000 counts Display: 800,000

Digital I/O:

Two inputs: 12/24 VDC

Two outputs: 150 mA 48 VAC/ 150 mA 60 VDC

Communication Ports:

(1) RS-485, (1) RS-232 Analog output (if equipped): Opt isolated, 16-bit 0-20 mA, 4-20 mA (Maximum 350 ohm) 0-5 VDC, 0-10 VDC (Minimum 10,000 ohm)

Annunciators:

Net, center of zero, stability

Display:

Six-digit 0.31 in (8 mm), red LED

Keys/Buttons:

Five key, tactile feel

Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

Dimensions:

(L × H × D) 4.72 × 4.52 × 0.98 in (120 × 115 × 25 mm)

Temperature & Humidity:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C) Humidity: 85% non-condensing

Rating/Material:

NEMA Type 1 plastic pluggable connectors

Weight:

1 lb (0.5 kg)

Warranty:

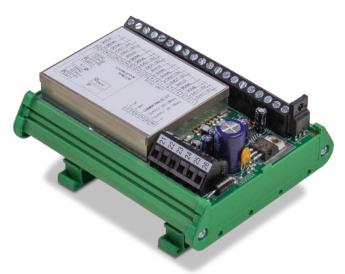
One-year limited

Approvals:

NTEP 20-046

Measurement Canada AM-6165C OIML R76/2006-A-GB1-19.17 **UKCA Marked**

cULus Listed



Approvals

UK CA

Part Number/Price

Part#	Description	Est. Weight	Price
Transmitters			
188725	Indicator, SCT-3300 four load cell input with Analog Output	1 lb	\$400.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply	1 lb	\$160.00

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

Specifications

Power:

Input: 20 to 28 VDC

Power Consumption:

Excitation Voltage: 10 VDC, 170 mA, 6×350 ohm load cells

Analog Signal Input Range:

3.5 to 24 mV

Analog Signal Sensitivity:

0.3 µV/graduation minimum $1.0 \mu V/graduation$ recommended

A/D Sample Rate:

300 Hz

System linearity:

± 0.01% full scale

Analog Output (if equipped):

Opto isolated 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC (min 10,000 ohm)

Dimensions:

 $(L \times W \times H)$ 4.56 × 3.72 × 2.4 in (114 × 93 × 60 mm)

Temperature & Humidity: Operating: 14 °F to 122 °F (-10 °C to 50 °C) Humidity: 85% non-condensing

Rating/Material:

DIN rail mount: NEMA Type 1

Weight:

0.5 lb (0.2 kg)

Warranty: One-year limited

Approvals:

UKCA Marked





Standard Features

- Load cell status diagnostics
- USB port for quick programming
- Integrated fieldbus and web server for configuration, diagnostics and data backup
- Process up to 4800 weight readings per second. The high speed allows an extremely accurate
 weight filtering even with weighing being performed in milliseconds.
- Up to 120 updates per second on Fieldbus.
- New power supply circuit of the load cells (up to 16) for a better weighing stability.
- Power supply circuit with protections against overloads, polarity reversal and short circuits, specific for industrial environments.
- Micro-USB communication port for configuration, diagnostics and data backup available on all versions.
- Modbus RTU protocol integrated on all versions, up to 110 updates per second.
- Real time warning of any faults or disconnections of the load cell.
- The integrated web server allows full diagnostics, calibration and remote configuration of the weight transmitter from an Ethernet network.
- Calibration via theoretical (mV\V), with sample weights, Web server or XSpeed software tool

OPTIONAL XSPEED SOFTWARE

- Customization of the weighing filter, to maximize the speed and accuracy in static and dynamic applications
- Graphical weighing analysis for the identification of mechanical disturbances and vibrations.
 Oscilloscope function for system diagnostics and filter optimization

Part Number/Price

Part #	Description	Est. Weight	Price
216820	SCT-1SX-AN weight transmitter and analog output for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		\$895.00
216822	SCT-1SX-ETHIP weight transmitter and EtherNet/IP port for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		\$1,295.00
216821	SCT-1SX-PRONET weight transmitter and PROFINET port for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		\$1,095.00
216823	SCT-1SX-MODTCP weight transmitter and Modbus/TCP port for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		\$1,295.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply	1 lb	\$160.00
Consult	PC software, XSpeed with graphical weighing analysis and oscilloscope function for system diagnostics and filter optimization		Consult
Consult	Alibi Memory for type-approved communication to PC/PLC (fiscal memory, max 120,000 weighs) built-in real time clock to print the date/time with PCB, screw terminal, plastic box		Consult
Consult	Real time clock for printing/displaying of date and time		Consult

Specifications

Power:

12 to 24 VDC, 5W

Power Consumption:

70 mA min to 100 mA max

Excitation Voltage:

5V, 120 mA, 16×350 ohm load cells

Analog Signal Input Range:

± 39 mV

Analog Signal Sensitivity:

High resolution 0.01 μ V/d Legal for trade 0.3 μ V/e

A/D Sample Rate:

Up to 4800 Hz

Resolution:

Internal: 1,500,000 counts Display: 800,000 Legal-for-trade divisions

Up to 10,000e or multi-field 2 × 3,000e

Diaital I/O:

Two inputs, configurable: 12/24 VDC Four outputs, configurable: 150 mA 48 VAC/ 150 mA 60 VDC

Communication Ports:

(1) RS-485, (1) RS-232 1 micro-USB port (device) Serial port update rate: up to 1600 Hz Fieldbus update rate: up to 120 Hz

Analog Output (if equipped):

Opto. isolated, 16-bit 0 to 20mA, 4 to 20mA (Maximum 350 ohm) 0 to 5 VDC, 0 to 10 VDC (Minimum 10,000 ohm)

Annunciators:

Net, center of zero, stability

Display:

Six-digit (8 mm), red LED

Keys/Buttons:

Five key, membrane panel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

Dimensions:

(L × W × H) 4.72 x 0.90 x 4.00 in (120 x 23 x 112 mm)

Temperature & Humidity:

For internal use -20°C to 60°C Approved -10°C to 40°C Humidity: 85% non-condensing

Rating/Material:

Enclosure: ABS plastic **Warranty:**

One-year limited

Approvals: CE-M EN 45501





Standard Features

- · Manage up to 4-load cells (1 scale) or 4 scales with load cell feed circuit for greater weighing stability
- Process to 2600 weight readings per second for single-channel
- 14.2 mm display with new configuration menu to simplify calibration and configuration
- All data and adjustments of each scale are available through integrated fieldbus with up to 120 updates per second
- Integrated web server allows complete diagnostics, calibration and remote configuration
- · Frontal micro-USB communication port for configuration, diagnostics and data backup.
- · Removable terminal blocks to simplify wiring in the electrical panel
- RS-485 communication port always available on all versions
- · Power supply circuit with protections, specific for industrial environment

OPTIONAL XSPEED SOFTWARE

- · Customization of the weighing filter, to maximize the speed and accuracy in static and dynamic applications
- Graphical weighing analysis for the identification of mechanical disturbances and vibrations.
- Oscilloscope function for system diagnostics and filter optimization

Part Number/Price

Part #	Description	Est. Weight	Price
216824	SCT-4XAN high speed weight transmitter and analog output for DIN rail mount with 2 IN, 2 OUT, keypad, LED display		\$940.00
216825	SCT-4X-ETHIP high speed 4 channel weight transmitter and EtherNet/ IP port for DIN rail mount with DIO 2 IN, 2 OUT, 5-key keypad, LED display		\$1,195.00
216826	SCT-4X-MODTCP high speed 4 channel weight transmitter and Mod- bus/TCP port for DIN rail mount with DIO 2 IN, 2 OUT, 5-key keypad, LED display		\$1,195.00
216827	SCT-4X-PRONET high speed 4 channel weight transmitter and PRO- FINET port for DIN rail mount with DIO 2 IN, 2 OUT, 5-key keypad, LED display		\$1,125.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply	1 lb	\$160.00
Consult	PC software, XSpeed with graphical weighing analysis and oscilloscope function for system diagnostics and filter optimization		Consult
Consult	Alibi Memory for type-approved communication to PC/PLC (fiscal memory, max 120,000 weighs) built-in real time clock to print the date/time with PCB, screw terminal, plastic box		Consult
Consult	Real time clock for printing/displaying of date and time		Consult

Specifications

Power:

12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 120 mA up to 16 x 350 ohm cells

Analog Signal Input Range:

Analog Signal Sensitivity:

0.3 μV/graduation minimum

A/D Sample Rate:

24-bit A/D

Single-channel up to 2600 conv/sec

4 channels up to 100 conv/sec

Resolution:

Internal: 3,000,000 counts Display: up to 800,000 Up to 8 linearization points

Digital I/O:

Two inputs: 12/24 VDC

Two outputs:150 mA 48 VAC/ 150 mA 60 VDC

Communication Ports:

1 Micro-USB port (device) for PC configuration (1) RS-485, (1) RS-232

Analog Output (if equipped):

Opt. isolated, 16-bit

0-20mA, 4-20mA (Maximum 350 ohm) 0-5 VDC, 0-10 VDC (Minimum 10,000 ohm)

Annunciators:

Nine I FDs

Display:

Six-digit 0.31 in (8 mm), red LED

Keys/Buttons:

Five tactile keys

Zeroing, Tare, Function mode, Manual data printing/ sending, ON/Stand-by

Dimensions:

(L × W × H) 4.17 x 2.20 x 4.64 inches (106 x 56 x 118 mm)

Temperature & Humidity:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:

80% RH, non-condensing

Rating/Material:

NEMA Type 1 plastic pluggable connectors **ABS**

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

CE-M EN 45501





SCT-10 in Plastic Enclosure

Approvals



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
- Supports ASCII or MODBUS-RTU protocols

Part Number/Price

Part #	Description	Est. Weight	Price
129393	SCT-10 converter with Analog Output	1 lb	\$530.00
129394	SCT-10 converter with Analog Output in enclosure	1 lb	\$675.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply	1 lb	\$160.00
131129	Installation manual	1 lb	\$25.00
199687	DIN rail clip right & left end clamp		\$11.00

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

 $0.3 \, \mu V/graduation minimum$ 1.0 µV/graduation recommended

A/D Sample Rate:

80 Hz

Resolution:

Internal: 16,000,000 counts Display: 999,999

System Linearity:

± 0.01% full scale

Digital I/O:

2 inputs 5-24VDC, 2 outputs 24 VDC/60 mA N.O. or N.C. (solid state)

Communication Ports:

RS-485 or RS-232 simplex supports up to 115,200 bps

Analog Output:

Opto isolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC, -10 to 10 VDC, 5 to 5 VDC. (min 10k ohm)

Annunciators:

Net, center of zero, stability, KG, G, LB

Display:

0.3 in (8 mm), six-digit, 7 segment LED

Keys/Buttons:

4-key membrane panel, tactile feel Zero, Tare, Print, Menu, Escape, Left and Up Navigation, Enter

Dimensions:

(L × W × H) DIN Rail Mount: 4.84 × 3.62 × 1.96 in (123 × 92 × 50 mm) Enclosure: 6.69 × 5.51 × 3.74 in (170 × 140 × 95 mm)

Temperature & Humidity: Operating Temperature: -4 °F to 140 °F (-20 °C to 60 °C) Humidity: 85% non-condensing

Rating/Material:

DIN rail mount: NEMA Type 1 Enclosure: NEMA Type 4/IP67, plastic Clear cover: six PG9 cord grips

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

cULus Recognized



Approvals





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 transmit only, or RS-485 half duplex connection

Part Number/Price

Part #	Description	Est. Weight	Price
129396	SCT-20 converter with Analog Output	1 lb	\$530.00
129397	SCT-20 converter with DeviceNet™	1 lb	\$675.00
129558	SCT-20 converter with Profibus™ DP	1 lb	\$735.00
129398	SCT-20 converter with EtherNet/IP™	1 lb	\$950.00
132534	SCT-20 converter with Ethernet TCP/IP™	1 lb	\$950.00
156903	SCT-20 converter with Modbus/TCP	1 lb	\$950.00
131128	Installation manual	1 lb	\$25.00
162887	SCT-20 converter with Ethernet TCP/IP	1 lb	\$995.00

EtherNet/IP and Modbus output changed to Dual Port in 2019.

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply.	1 lb	\$160.00

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

5 W

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

+/-39 mV

Analog Signal Sensitivity:

0.3 μV/graduation minimum 1.0 µV/graduation recommended

A/D Sample Rate:

300 Hz

Resolution:

Internal: 16,000,000 counts Display: 999,999

System linearity:

± 0.01% full scale

Digital I/O:

2 inputs 5 to 24 VDC, 3 outputs 115 VAC/150 mA N.O. or N.C. (dry contact)

Communication Ports:

RS-232 transmit only, or RS-485 half duplex Supports up to 115,200 bps

Analog Output:

Opto isolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC (min 10k ohm)

Display:

0.3 in (8 mm), six-digit, seven-segment LED Annunciators: Net, center of zero, stability, KG, G, LB

Keys/Buttons:

4-key membrane panel, tactile feel Zero, Tare, Print, Menu, Escape, Left & Up Navigation, Enter

Dimensions

 $(W \times H \times D)$ 4.72 × 4.52 × 0.98 in (120 × 115 × 25 mm)

Temperature & Humidity:

Operating: -4 °F to 140 °F (-20 °C to 60 °C) Humidity: 85% non-condensing

Rating/Material:

Enclosure: NEMA Type 1 plastic pluggable connectors

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

NTEP CC 14-083 cULus Recognized



Part Number/Price

Part #	Description	Est. Weight	Price
156794	SCT-30 converter with Analog Output	1 lb	\$430.00
156834	SCT-30 converter with Analog Output in enclosure	1 lb	\$595.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply.	1 lb	\$160.00
131129	Installation manual	1 lb	\$25.00
199707	DIN rail clip right & left end clamp		\$11.00

Standard Features

- LCD display
- 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
- Diagnostic message for load cell disconnect and over-capacity errors

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

+/-39 mV

Analog Signal Sensitivity:

0.3 µV/graduation minimum 1.0 µV/graduation recommended

A/D Sample Rate:

300 Hz

Resolution:

Internal: 16,000,000 counts

System Linearity:

± 0.01% full scale

Communication Ports:

RS-485

Analog Output:

Opto isolated, 16 bit

0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC (min 10k ohm)

Display:

Eight-digit alphanumeric tow line LCD, 5 mm high

Keys/Buttons:

Control knob and DIP switches

Dimensions:

(L × W × H) 3.74 × 3.54 × 2.36 in (95 × 90 × 60 mm)

Temperature & Humidity:

Operating: -4 °F to 140 °F (-20 °C to 60 °C) Humidity: 85% non-condensing

Rating/Material:

DIN rail mount: NEMA Type 1

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approval:

cULus Recognized



Standard Features

- · LCD display
- 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 linear calibration
- Push -button or preset tare
- Converts digital weight to analog output or optional DeviceNet™, Profibus™, EtherNet/IP™, PROFINET and Modbus TCP protocols
- Supports ASCII or MODBUS RTU protocols
- Bit swapping selection for little endian and endian format
- · Three digital inputs, five digital outputs
- One serial port, RS-485 half duplex or RS-232 transmit-only connection

SCT-40AN only

• Full scale analog output with zero setting and PLC correction of analog signal

Part Number/Price

Part #	Description	Est. Weight	Price
170470	SCT-40 with Analog Output	1 lb	\$735.00
170471	SCT-40 with DeviceNet	1 lb	\$980.00
170472	SCT-40 with Profibus	1 lb	\$980.00
170473	SCT-40 with EtherNet/IP	1 lb	\$1,025.00
170474	SCT-40 with Ethernet TCP/IP	1 lb	\$975.00
170475	SCT-40 with Modbus TCP	1 lb	\$1,025.00
170476	SCT-40 with Profinet I/O	1 lb	\$1,025.00
131128	Installation manual	1 lb	\$25.00

EtherNet/IP and Modbus output changed to Dual Port in 2019

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12VDC 1.2A DIN rail mount power supply	1 lb	\$140.00
119244	24VDC 1.3A DIN rail mount power supply.	1 lb	\$160.00

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 240 mA, 16 x 350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

 $0.3 \,\mu\text{V/graduation minimum}$ 1.0 µV/graduation recommended

A/D Sample Rate:

600 Hz

Resolution:

Internal: 16,000,000 counts Display: 999,999

System linearity:

± 0.01% full scale

Digital I/O:

3 inputs 5 to 24 VDC, 5 outputs, 115 VAC/150 mA

Communication Ports

RS-232 transmit only, or RS-485 half duplex Supports up to 115,200 bps

Analog Output (SCT-40AN only):

Opto isolated, 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 128×64 pixel resolution, 60×32 mm visible area

Keys/Buttons:

Five-key tactile keypad Test, Zero, Tare, Print Menu, Escape, Left and Up, Navigator, Enter

Dimensions:

 $\begin{array}{l} (L\times W\times H) \\ 5.82\times 3.62\times 2.36 \ in \end{array}$ (148 × 92 × 60 mm)

Temperature & Humidity:

Operating: -4 °F to 140 °F (-20 °C to 60 °C) Humidity: 85% non-condensing

Rating/Material:

DIN rail mount: NEMA Type 1

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

cULus Recognized



Standard Features

- High resolution design
- Used in high precision testing, troubleshooting and calibrating digital weight indicators
- Switchable offset
- · Painted die-cast enclosure

Specifications

Vernier:

Two ranges; one is equal to the sum of the 0.05 mV/V switch and the 0 to 0.5 mV/V switch. The other is the sum of the $0.5 \, \text{mV/V}$, $0.1 \, \text{mV/V}$ and 0.01 mV/V switches.

Load Impedance:

Three settings: X0.5: 700 ohm

X1: 350 ohm (one standard load cell) X4: 87.5 ohm (four load cell platform)

Linearity:

 $\pm 0.01\% + 1\mu V$

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:

Price

Price

\$68.00

\$995.00

 $\pm~0.0005~\text{mV/V}$

Output Range:

0 to 3 mV/V in 0.01 mV/V steps

LED Annunciators:

EXC+ EXC -Offset ON 0.5 mV/V

0.1 mV/V

Warranty: One-year limited

Part Number/Price Description Part# **157323** Ranger 7 high resolution calibration simulator **Options/Accessories**

- p	- p	
Part#	Description	
21116	Cable (4 ft) with banana plugs	