Indicators / Controllers

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1280 Enterprise[™] Series

Programmable Color Touchscreen Weight Indicator/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
- Dual-port assignments for weight tickets, credit cards, smart pass, HID readers, etc.
- iRite reporting or 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 CC 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 UL/cUL Listed (Universal, Wall Mount) UL/cUL Recognized (Panel Mount) CE Marked





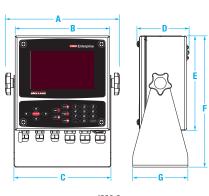


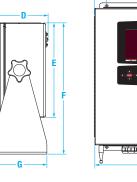
7-inch model with keypad

7-inch touch-only model

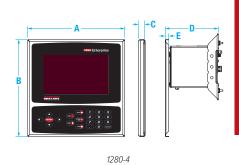
12-inch touch-only model

Numeric Keypad Models:







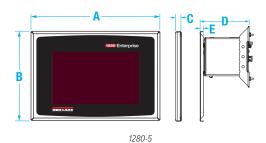


Ui	Universal (1280-2) Dimensions					
Α	10.86 in (276 mm)	Ε	9.00 in (229 mm)			
В	9.00 in (229 mm)	F	12.50 in (318 mm)			
С	9.24 in (235 mm)	G	5.25 in (133 mm)			
D	4.97 in (126 mm)					

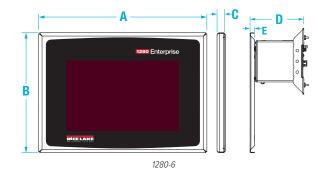
Wall Mount (1280-3) Dimensions						
Α	14.92 in (379 mm)	Ε	19.64 in (499 mm)			
В	11.00 in (279 mm)	F	14.20 in (361 mm)			
С	18.22 in (463 mm)	G	8.08 in (205 mm)			
D	18.84 in (479 mm)					

Panel Mount (1280-4) Dimensions					
Α	9.00 in (229 mm)	D	5.34 in (136 mm)		
В	9.00 in (229 mm)	Е	0.32 in (8 mm)		
С	0.58 in (15 mm)				

Touch-only Models:



7-inch Touch-only (1280-5) Dimensions				
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-inch Touch-only (1280-6) Dimensions				
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)			

Generate a 1280 Enterprise Series Model Reference Code

ENCLOSURE TYPE POWER TYPE DISPLAY TYPE OPTION CARDS ALL SLOTS MUST BE FILLED **CORD TYPE** 1 Universal (1280-2) 1 AC 1 500NIT 1 US Plug A Blank Analog Input 7 in Unviersal If no option, controller will Universal 2 Panel (1280-4) 2 DC EtherNet/IP need 6 blanks 2 1000NIT 2 Brazil Plug 3 Wall (1280-3) ■ DeviceNet Universal 7 in Universal ■ Single A/D Scale 4 Touch-only Panel 7 in 3 Euro Plug 3 500NIT C Dual A/D Scale ProfiNet (1280-5)7 in Panel/Wall Universal M Modbus TCP 24 Channel Digital I/0 Touch-only Panel 12 in (1280-6) 4 1000NIT 4 US Plug N Profibus DP 7 in Panel/Wall E Dual Serial Channel Wall EtherCat **5** Euro Plug Wall 5 1500NIT F 4-dry Contact Relay 12 in Panel PowerLink G Single Analog Out 6 Brazil Plug H Dual Analog Out Wall UK Plug Universal 8 AU/NZ Plug Universal 9 UK Plug Wall A AU/NZ Plug Wall

Part Number

Full Nulli			_			
Part #	Reference #	Description	Power	Display	Option Installed	Price
Universal Encl	osure with 500 NIT	Display (1280-2)				
171427 [†]	1111BAAAAA	1280 Universal	115 VAC	500 NIT	Single Scale Card	\$3,450.00
171441 ^{††}	1131BAAAAA	1280 Universal	100-240 VAC	500 NIT	Single Scale Card	\$3,450.00
171662 [†]	1111CAAAAA	1280 Universal	115 VAC	500 NIT	Dual Scale Card	\$3,625.00
172188 ^{††}	1131CAAAAA	1280 Universal	100-240 VAC	500 NIT	Dual Scale Card	\$3,625.00
Panel Mount E	nclosure with 500 N	NIT Display (1280-4)				
171663	21-3BAAAAA	1280 Panel Mount	100-240 VAC	500 NIT	Single Scale Card	\$3,250.00
172186	21-3CAAAAA	1280 Panel Mount	100-240 VAC	500 NIT	Dual Scale Card	\$3,425.00
Wall Mount En	closure with 500 NI	T Display (1280-3)				
173673 [†]	3143BAAAAA	1280 Wall Mount	115 VAC	500 NIT	Single Scale Card	\$3,850.00
174143 ^{††}	3153BAAAAA	1280 Wall Mount	100-240 VAC	500 NIT	Single Scale Card	\$3,850.00
174144 [†]	3143CAAAAA	1280 Wall Mount	115 VAC	500 NIT	Dual Scale Card	\$4,025.00
174145 ^{††}	3153CAAAAA	1280 Wall Mount	100-240 VAC	500 NIT	Dual Scale Card	\$4,025.00
Wall Mount En	closure with 1000 N	IIT Display (1280-3)				
172184 [†]	3144BAAAAA	1280 Wall Mount	115 VAC	1,000 NIT	Single Scale Card	\$3,950.00
172185 ^{††}	3154BAAAAA	1280 Wall Mount	100-240 VAC	1,000 NIT	Single Scale Card	\$3,950.00
206563 [†]	3144CAAAAA	1280 Wall Mount	115 VAC	1,000 NIT	Dual Scale Card	\$4,125.00
172187 [#]	3154CAAAAA	1280 Wall Mount	100-240 VAC	1,000 NIT	Dual Scale Card	\$4,125.00
Touch-only 7 in	nch with 500 NIT Dis	splay (1280-5)				
186618	41-3BAAAAA	1280 Touch-only 7 in	100-240 VAC	500 NIT	Single Scale Card	\$3,350.00
Touch-only 12	inch with 1500 NIT I	Display (1280-6)				
186465	51-5BAAAAA	1280 Touch-only 12 in	100-240 VAC	1,500 NIT	Single Scale Card	\$3,975.00



† US plug (NA) - Type B



tt Euro Plug - Type E



(OOO) (Brazil) - Type N



ttt BS1363 (UK) - Type G



†††† AS 3112 (Australian) - Type I

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 #	Description	Price
164085	Single scale A/D	\$375.00
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
164683	Dual scale A/D	\$550.00
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	\$600.00
208129	EtherNet/IP, dual port	\$750.00

DeviceNet



Part #	Description	Price
165793	DeviceNet	\$600.00

Profinet



Part #	Description	Price
165794	Profinet	\$600.00

Modbus TCP



Part #	Description	Price
165796	Modbus TCP	\$600.00

Profibus DP



Part #	Description	Price
165795	Profibus DP	\$600.00

EtherCAT



Part #	Description	Price
179533	EtherCAT	\$600.00

PowerLink



Pa	ırt#	Description	Price
18	2319	PowerLink	\$850.00

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

Part #	Description	Price		
Manuals a	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	Extended Touch Cable Length for Touch Only Models			
180744	180744 Touch cable for touch-only, 5 ft length \$10			
180745	Touch cable for touch-only, 10 ft length	\$105.00		

Primary Component Parts

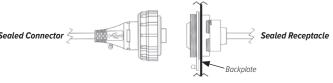
Part #	Description	Price	
Displays			
163400	7 in 500 NIT display	\$350.00	
163399	7 in 1,000 NIT display	\$450.00	
182992	12 in 1,500 NIT display	\$875.00	
Boards			
179992	CPU board assembly includes face plate and fan plate	\$1,100.00	
199157	Controller box, CPU, power supply, backplane	\$1,500.00	
Power Su	pplies		
202512	AC power supply board	\$180.00	
202514	DC power supply board		
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		
176126	Touchscreen, for 12 in touch-only panel mount \$		
178161	Clear protective overlay display (pack of 5) \$6		
178163	Clear protective overlay keypad (pack of 5)	\$63.00	

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

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	\$15.00		
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	Ethernet Receptacles (Receptacle is a socket)					
176789		RJ-45 SEALED		\$105.00		
172734	RJ-45 SEALED		0.5 m	\$90.00		
126353	RJ-45 SEALED		0.25 m	\$90.00		
Cable and Rec	eptacle Accessor	ies				
124694	Cover for sealed		\$13.00			
124689	Cover for flash d	river mounts on s	ealed receptacle	\$25.00		

Unsealed Connectors







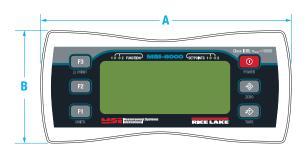
Part Number/Price

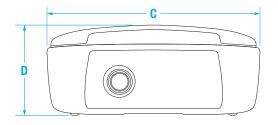
Part #	Description	Est. Weight	Price
139381	MSI-8000 RF remote display	5 lb	\$1,320.00

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	\$155.00
149550	Universal 115/230 VAC 50/60 Hz (EC plug standard) battery charger for MSI 8000 RF remote display	1 lb	\$150.00
150964	DB9 female serial interface cable for MSI-8000 RF remote display	1 lb	\$190.00
151095	Audible alarm	_	\$300.00
182223	12V car charger adapter for MSI-8000	1 lb	\$135.00

Dimensions			
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:

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:

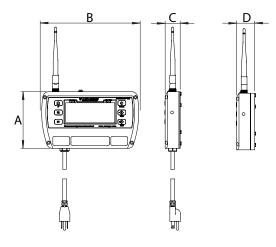
One-year limited



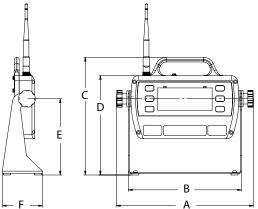
Standard Features

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



Dimensions			
With	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 only

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 user-defined 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	MSI-8000HD ScaleCore RF/Remote Display/85-265 VAC	5 lb (2.5 kg)	\$1,440.00
154853	MSI-8000HD ScaleCore RF/Remote Display/Internal Battery	5 lb (2.5 kg)	\$1,560.00
160476	MSI-8000HD ScaleCore RF/Remote Display/7-36 VDC	5 lb (2.5 kg)	\$1,390.00
159377	MSI-8000HD ScaleCore RF/Remote Display/18-72 VDC	5 lb (2.5 kg)	\$1,420.00
159376	MSI-8000HD ScaleCore RF/Remote Display/9-36 VDC	5 lb (2.5 kg)	\$1,420.00
158427	MSI-8000HD Meter/2 A/D Inputs/85-265 VAC (non RF)	5 lb (2.5 kg)	\$1,750.00
158428	MSI-8000HD Meter/2 A/D Inputs/Internal Battery (non RF)	5 lb (2.5 kg)	\$1,860.00
160478	MSI-8000HD Meter/2 A/D Inputs/7-36 VDC (non RF)	5 lb (2.5 kg)	\$1,560.00
159381	MSI-8000HD Meter/2 A/D Inputs/18-72 VDC (non RF)	5 lb (2.5 kg)	\$1,600.00
159380	MSI-8000HD Meter/2 A/D Inputs/9-36 VDC (non RF)	5 lb (2.5 kg)	\$1,600.00
158425	MSI-8000HD RF Meter/2 A/D Inputs/85-265 VAC	5 lb (2.5 kg)	\$1,770.00
158426	MSI-8000HD RF Meter/2 A/D Inputs/Internal Battery	5 lb (2.5 kg)	\$1,930.00
160477	MSI-8000HD RF Meter/2 A/D Inputs/7-36 VDC	5 lb (2.5 kg)	\$1,770.00
159379	MSI-8000HD RF Meter/2 A/D Inputs/18-72 VDC	5 lb (2.5 kg)	\$1,780.00
159378	MSI-8000HD RF Meter/2 A/D Inputs/9-36 VDC	5 lb (2.5 kg)	\$1,780.00
176958	MSI-8000HD Wi-Fi Meter/85/265 VAC	5 lb (2.5 kg)	\$1,470.00
176960	MSI-8000HD Wi-Fi Meter/Internal Battery	5 lb (2.5 kg)	\$1,600.00
176964	MSI-8000HD Wi-Fi Meter/7-36 VDC	5 lb (2.5 kg)	\$1,420.00
176966	MSI-8000HD Wi-Fi Meter/9-36 VDC	5 lb (2.5 kg)	\$1,460.00
176968	MSI-8000HD Wi-Fi Meter/18-72 VDC	5 lb (2.5 kg)	\$1,460.00

Options/Accessories

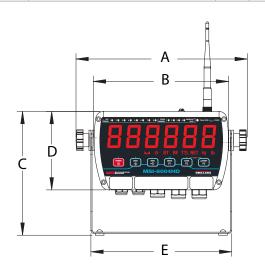
Part #	Description	Price
155173	MSI-8000HD spare tilt stand option kit	\$83.00
155193	MSI-8000HD Ethernet TCP/IP option kit wired	\$410.00
162178	Antenna extension kit, 6 ft	\$465.00
148624	MSI-8000HD serial RS-232 cable	\$135.00
158779	MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5A or 100 VDC 0.4A	\$355.00
158780	MSI-8000HD two each solid state relay option kit, 60 Vpk 2.7A	\$355.00
158781	MSI-8000HD two each solid state relay option kit, 200 Vpk 0.9A	\$355.00
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	\$155.00
149550	Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device	\$150.00
171203	Audible alarm kit	\$355.00
176963	Serial print cable	\$155.00
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 relay option kit, Four-Channel, 3A, 60Vpk Solid State Form C relays	Consult
172501	Expanded relay option kit, Eight-Channel, 3A 60Vpk, Solid State Form C relays	Consult
172502	Expanded relay option kit, Eight-Channel, 0.9A 200Vpk, Solid State Form C relays	Consult
171676	Expanded relay option kit, Eight-Channel, 12A 5V, Latching relays	Consult

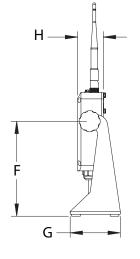


Part Number/Price

Part #	Description Price			
Indicator				
196904	4CH AC, Red/Green Instant Power-On, 85~264VAC, 47~440 Hz, 120~370 VDC	\$2,240.00		
178265	4CH AC, Red/Green 85°264 VAC, 47°440 Hz, 120°370 VDC	\$2,030.00		
178269	4CH DC 8-32 V, Red/Green Best for external 12 V SLA Batteries	\$2,060.00		
178271	4CH DC 9-36 V Iso, Red/Green Do not use on 12 V Vehicle Systems	\$2,160.00		
183481	33481 4CH 5 V Red/Green with external rechargeable battery \$2,040			
Remote Display				
178281	AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC	\$1,980.00		
178283 DC, 8-32 V, Red/Green Best for external 12 V SLA Battery \$1,94		\$1,940.00		
178285 DC, 9-36 V Iso, Red/Green Do not use on 12 V Vehicle Systems \$2,0		\$2,020.00		
183479	4CH 5 V Red/Green with external rechargeable battery	\$1,750.00		

Dimen	Dimensions			
With Tilt Stand				
Α	11.10 in (282 mm)	E	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

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, kilograms, tons, metric tons, kilonewtons

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

Display:

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

Operating Temperature:

-4 °F to 140 °F (-20 °C to 60 °C)

Rating/Material:

NEMA Type 4, IP65 milled anodized aluminum

Warranty:

One-year limited

Approvals:

NTEP 17-036 (-5 °C to 40 °C) 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" Ø). Beam-width. Must be mounted vertically.	\$485.00
139310	Antenna kit, corner reflector, 9 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" Ø). Beam-width: 75° elevation, 65° azimuth.	\$480.00
139311	Antenna kit, corner reflector, 12 dBi with 3 m coax intended for directional wall or mast mounting (up to 2" Ø). Beam-width: 50° elevation, 36° azimuth.	\$510.00
139312	Antenna kit, YAGI, 15 dBi with 3 m coax highly directional wall or mast mounting (up to 2" Ø). Beam-width: 30° elevation, 34° azimuth.	\$395.00
139313	Antenna kit, vehicle mount, 5 dBi with 5 m coax omni-directional. Mounts in 3/4" Hole.	\$150.00
162178	Antenna extension kit, 6 ft	\$465.00
197013	Antenna extension kit, 20 ft	\$495.00
155173	Spare kit, tilt stand	\$83.00
199105	Audible alarm not compatible with battery versions	\$300.00
22436	Cable, Comm DB9F 9-pPin Fem One end stripped and tinned on other end 6' Pin 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.	\$67.00
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).	\$225.00
184131	8004 option kit, WiFi with SMA antenna	\$190.00
187424	8004 option kit, 2nd Xbee with TNC antenna	\$200.00
182224	Power adapter, 12 VDC 5 VDC dual USB car charger plus 3 ft USB cable	\$56.00
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



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

- · Tilt mounting bracket
- · 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 440 Hz/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

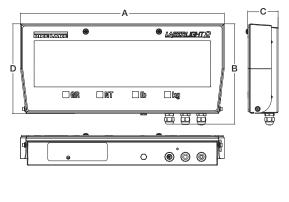
Part Number/Price

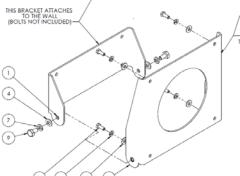
Part #	Description	Est. Weight	Price
178004	LaserLight2, 4 in with ScaleCore RF and tilt bracket		\$2,370.00
178006	LaserLight2, 6 in with ScaleCore RF and tilt bracket		\$2,810.00
178341	Laserlight2, 4 in with tilt bracket		\$2,250.00
178342	Laserlight2, 6 in with tilt bracket		\$2,680.00

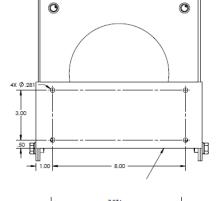
Options/Accessories

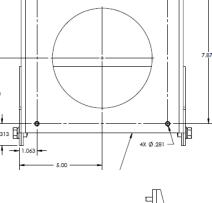
Part #	Description	Est. Weight	Price
139309	Long-range antenna, 300 m-500 m omni-directional with 9 dBi gain, includes 10 ft/3 m coaxial cable	1 lb	\$485.00
139310	9 dBi gain corner reflector antenna	1 lb	\$480.00
139311	12 dBi gain corner reflector antenna	1 lb	\$510.00
139313	5 dBi gain vehicle/cab mount whip antenna	1 lb	\$150.00
162178	Antenna extension kit, 6 ft		\$465.00
197013	Antenna extension kit, 20 ft		\$495.00
178318	Replacement tilt bracket		\$260.00

Dimensions								
2	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)











TranSend™ MSI-7000

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitte	ers		
5-6 VDC F	Power Input		
159207	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2lb	\$985.00
161949	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,130.00
176648	Four-channel transmitter, no relays, Wi-Fi	2lb	\$1,040.00
176652	Four-channel transmitter, includes three coil relays, Wi-Fi	2lb	\$1,180.00
7-36 VDC	Power Input		
159470	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2lb	\$1,020.00
161951	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2lb	\$1,180.00
176650	Four-channel transmitter, no relays, Wi-Fi	2lb	\$1,070.00
176653	Four-channel transmitter, includes three coil relays, Wi-Fi	2lb	\$1,240.00
85-265 V	AC Power Input		
159469	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2lb	\$1,040.00
161950	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2lb	\$1,210.00
176647	Four-channel transmitter, no relays, Wi-Fi	2lb	\$1,100.00
176651	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	\$1,280.00
Receivers			
5-6 VDC F	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	\$1,180.00
160017	MSI-7000 four-channel receiver to provide RS232 serial output	2lb	\$1,200.00
7-36 VDC	Power Input		
159478	MSI-7000 four-channel receiver to provide RS232 serial output	2 lb	\$1,250.00
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	\$1,330.00
85-265 V	AC Power Input		
159477	Four-channel receiver to provide RS232 serial output	2lb	\$1,110.00
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	\$1,430.00

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

(Contact MSI for application consultation)

Specifications

Power:

5 to 6 VDC, 7 to 36 VDC, 85 to 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:

NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model) MSI-7000HD/MSI-7001HD: IP68

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

rf transceivers **TranSend™ MSI-7000**

Wireless Load Cell Interface System

Options/Accessories

Part #	Description	Price
162172	Charger, TranSend™ for 6 V SLA battery	\$67.00
162173	Battery, TranSend 6 V SLA	\$130.00
162175	Enclosure, TranSend for 6 V SLA battery	\$340.00
160109	AC adaptor, TranSend 6 V	\$56.00
143531	Power cord, 6 V SLA battery charger EU	\$29.00
143533	Power cord, 6 V SLA battery charger, Australia	\$51.00
143534	Power cord, 6 V SLA battery charger, UK	\$45.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$56.00
162178	Antenna extension kit, 6 ft coax cable	\$465.00
139309	Antenna kit, long range Omni with 3 m coax cable	\$485.00
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$480.00
197013	Antenna extension kit, 20 ft	\$495.00
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$510.00
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$395.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$455.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$150.00
150964	RS-232 13ft (4m) serial cable with nine-pin (female) connector	\$190.00
150965	RS-232 13ft (4 m) serial cable with nine-pin (male) connector	\$170.00
145085	RS-232 serial cable, nine-pin unterminated	\$130.00

TranSend™ MSI-7001

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitt	ers		
5-6 VDC I	Power Input		
160330	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$930.00
176655	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$980.00
7-36 VDC	Power Input		
160329	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$985.00
176656	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,040.00
85-265 V	AC Power Input		
160328	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,020.00
176654	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,070.00
Receivers			
5-6 VDC I	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	\$985.00
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	\$1,040.00
161941	Single-channel receiver to provide RS232 serial output	2 lb	\$770.00
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	\$1,080.00
161939	Single-channel receiver to provide RS232 serial output	2 lb	\$880.00
160333	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	\$1,180.00
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	\$1,130.00
161938	Receiver to provide RS232 serial output	2 lb	\$940.00

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

(Contact MSI for application consultation)

Specifications

Power:

5 to 6 VDC, 7 to 36 VDC, 85 to 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:

NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model) MSI-7000HD/MSI-7001HD: IP68

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

rf transceivers TranSend™ MSI-7001

Wireless Load Cell Interface System

Options/Accessories

<u> </u>		
Part #	Description	Price
162177	Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers	\$130.00
164865	Cable, 4 m, one-channel, mV/V output, LC input	\$135.00
165648	Cable, 5 m, one-channel, mV/V output, LC input	\$155.00
165651	Cable, 10 m, one-channel, mV/V output, LC input	\$220.00
162184	Load cell connector, TranSend, field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers.	\$59.00
162185	Load cell connector, TranSend, field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers.	\$59.00
162186	Load cell connector, TranSend, field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers.	\$59.00
162187	Load cell connector, TranSend, field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers.	\$59.00
145084	Cable, 2 m, one-channel, analog output	\$61.00
144400	Cable, 5 m, one-channel, analog output	\$95.00
168903	Cable, 10 m, one-channel, analog output	\$145.00
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	\$67.00
162173	Battery, TranSend 6 V SLA	\$130.00
162175	Enclosure, TranSend for 6 V SLA battery	\$340.00
160109	AC adaptor, TranSend 6 V	\$56.00
143531	Power cord, 6 V SLA battery charger EU	\$29.00
143533	Power cord, 6 V SLA battery charger, Australia	\$51.00
143534	Power cord, 6 V SLA battery charger, UK	\$45.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$56.00
162178	Antenna extension kit, 6 ft coax cable	\$465.00
139309	Antenna kit, long range Omni with 3 m coax cable	\$485.00
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$480.00
197013	Antenna extension kit, 20 ft	\$495.00
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$510.00
	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$395.00
	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$455.00
	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$150.00
	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector	\$190.00
	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector	\$170.00
145085	RS-232 serial cable, nine-pin unterminated	\$130.00

TranSend™ MSI-7000HD

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitt	ers		
5-6 VDC F	Power Input		
177944	Four-channel 7-36VDC, three coil relays, 802.15.4		\$2,080.00
177997	Four-channel 7-36VDC, three coil relays, Wi-Fi		\$2,090.00
7-36 VDC	Power Input		
177945	Four-channel 9-36VDC isolated, three coil relays, 802.15.4		\$2,170.00
177998	Four-channel 9-36VDC isolated, three coil relays, Wi-Fi		\$2,190.00
184002	Half-plate mounted, FHSS, DC (battery) powered (half plate battery power supply sold separately)		Consult
85-265 V	AC Power Input		
177942	Four-channel 85-265VAC, three coil relays, 802.15.4		\$2,130.00
177995	Four-channel 85-265VAC, three coil relays, Wi-Fi		\$2,150.00

Options/Accessories

Part #	Description	Price
187424	Dual XBee option kit for 7000HD with TNC connector	\$200.00
162178	Antenna extension kit, 6 ft coax cable	\$465.00
139309	Antenna kit, long range Omni with 3 m coax cable	\$485.00
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$480.00
197013	Antenna extension kit, 20 ft	\$495.00
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$510.00
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$395.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$455.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$150.00
148624	RS-232/RS-485 serial cable	\$135.00
143348	Cordset IP68 5-pin male	\$130.00

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

(Contact MSI for application consultation)

Specifications

Power:

5 to 6 VDC, 7 to 36 VDC, 85 to 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:

NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model) MSI-7000HD/MSI-7001HD: IP68

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	Transmitters						
5-6 VDC							
178010	Two-channel 5-6VDC, 802.15.4		\$1,160.00				
178018	Two-channel 5-6VDC, Wi-Fi		\$1,250.00				
7-36 VDC							
178011	Two-channel 7-36VDC, 802.15.4		\$1,240.00				
178019	Two-channel 7-36VDC, Wi-Fi		\$1,260.00				
85-265 VA	C Isolated						
178012	Two-channel 9-36VDC isolated, 802.15.4		\$1,250.00				
178020	Two-channel 9-36VDC isolated, Wi-Fi		\$1,330.00				
85-265 VA	c						
178021	Two-channel 85-265VAC, 802.15.4		\$1,280.00				
178017	Two-channel 85-265VAC, W-iFi		\$1,310.00				

Options/Accessories

Part #	Description	Price
162172	Charger, TranSend™ for 6 V SLA battery	\$67.00
162173	Battery, TranSend 6 V SLA	\$130.00
162175	Enclosure, TranSend for 6 V SLA battery	\$340.00
160109	AC adaptor, TranSend 6 V	\$56.00
143531	Power cord, 6 V SLA battery charger EU	\$29.00
143533	Power cord, 6 V SLA battery charger, Australia	\$51.00
143534	Power cord, 6 V SLA battery charger, UK	\$45.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$56.00
162178	Antenna extension kit, 6ft coax cable	\$465.00
139309	Antenna kit, long range Omni with 3 m coax cable	\$485.00
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	\$480.00
197013	Antenna extension kit, 20 ft	\$495.00
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	\$510.00
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	\$395.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$455.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$150.00
148624	RS-232/RS-485 serial cable	\$135.00
143348	Cordset IP68, 5-pin	\$130.00

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

(Contact MSI for application consultation)

Specifications

Power:

5 to 6 VDC, 7 to 36 VDC, 85 to 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:

NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model) MSI-7000HD/MSI-7001HD: IP68

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

ScaleCore Webserver

Wireless Network Router/Webserver



Part Number/Price

Part #	Description	Price
207943	ScaleCore Webserver, 5 VDC and PoE	\$3,570.00
209704	ScaleCore Webserver, 7-14 VDC and PoE	\$3,570.00
210817	ScaleCore Webserver, 85-265 VAC and PoE wall cube	\$3,570.00

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 systems and applications)	\$1,460.00

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

Connectivity:

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 °C to 40 °C (14 °F to 104 °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)

Power:

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

Warranty:

One year limited

Approvals:

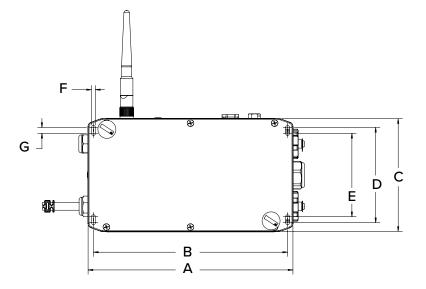
NTEP CC 21-098 Classes III and IIIL at 10,000d

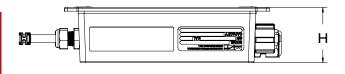


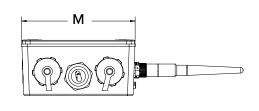
ScaleCore Webserver

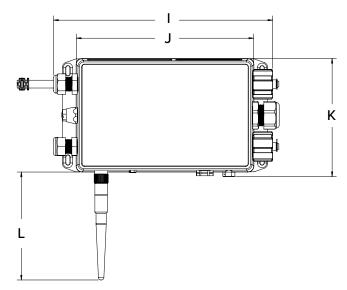
Wireless Network Router/Webserver

Dimensions				
Α	8.54 in (217 mm)	Н	2.23 in (57 mm)	
В	8.09 in (205 mm)	1	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)	
Ε	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)			



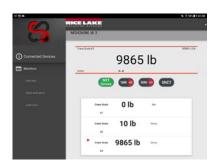








Computer Screenshot



Tablet Screenshot



Phone Screenshot

Rugged Remote



Approvals

CE

Part Number/Price

Part #	Description	Price
173014	MSI Rugged Remote control	\$330.00

Standard Features

- Handheld rugged remote control
- 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

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, simulation of key pressure
- · Modbus RU or ASCII protocol

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:

± 39 mV

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

Communication Ports:

(1) RS-485, (1) RS-232

Analog Output (if equipped):

Opto isolated, 16-bit 0 to 20mA, 4 to 20mA (Maximum 350 ohm)

0 to 5VDC, 0 to 10VDC (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 × W × H) 4.17 × 3.54 × 2.28 in

(106 × 90 × 58 mm)

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

Humidity:

85% non-condensing

Ratina/Material:

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

Warranty:

One-year limited

Approvals:

NTEP CC 20-046 Measurement Canada AM-6165C OIML R76/2006-A-GB1-19.17 EU Legal for Trade cULus Listed **NAWI** Certified **UKCA Marked**

Approvals











Part Number/Price

Part #	Description	Est. Weight	Price
202101	Indicator, SCT-1100-AN four load cell input with Analog Output	1 lb	\$450.00
197011	Indicator, SCT-1100-AN four load cell input with Analog Output in plastic enclosure	1 lb	\$625.00

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 nower supply	1 lb	\$160.00



SCT-1000 Serial to Ethernet converter





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
- Configurable calibration and setup parameters from keyboard
- · 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

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	\$325.00
202104 *	Indicator, SCT-2200-AN with analog output	1 lb	\$450.00
Fieldbus			
182592	Fieldbus, SCT-2200, Profinet module	1 lb	\$550.00
194343	Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi	1 lb	\$550.00
182593	Fieldbus, SCT-2200, Profibus module	1 lb	\$350.00
182591	Fieldbus, SCT-2200, EtherNet/IP module	1 lb	\$550.00
182596	Fieldbus, SCT-2200, DeviceNet module	1 lb	\$550.00
182598	Fieldbus, SCT-2200, EtherCAT module	1 lb	\$550.00
182597	Fieldbus, SCT-2200, CANopen module	1 lb	\$550.00
196694	Fieldbus, SCT-2200, Modbus TCP module	1 lb	\$550.00
182599	Cable with RJ45 plugs, 6 in length	1 lb	\$11.00
212772 **	Fieldbus, SCT-2200, Profibus module	1 lb	\$350.00

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 R.145 cable for every Scale module connected to a Feildbus module.
**Compatible with R87 indicator.

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

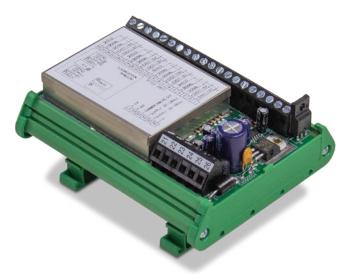
Warranty:

One-year limited

Approvals:

UKCA Marked

NTEP CC 20-046 Measurement Canada AM-6165C OIML R76/2006-A-GB1-19.17 EU Legal for Trade cULus Listed **NAWI** Certified



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	\$350.00

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 $1.0 \mu V/g$ raduation 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 × W × 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
Consult	SCT-1SX-AN weight transmitter and analog output for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		Consult
Consult	SCT-1SX-ETHIP weight transmitter and EtherNet/IP port for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		Consult
Consult	SCT-1SX-PRONET weight transmitter and PROFINET port for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		Consult
Consult	SCT-1SX-MODTCP weight transmitter and Modbus/TCP port for DIN rail mount with DIO 2 IN and 4 OUT, integrated web server		Consult

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, 5 W

Power Consumption:

70 mA min to 100 mA max

Excitation Voltage:

5V, 120 mA, 16 \times 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

Digital 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 5VDC, 0 to 10VDC (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 × 0.90 × 4.00 in (120 × 23 × 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	Price
Consult	SCT-4XAN high speed weight transmitter and analog output for DIN rail mount with 2 IN, 2 OUT, 5-key keypad, LED display	Consult
Consult	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	Consult
Consult	SCT-4X-MODTCP high speed 4 channel weight transmitter and Modbus/TCP port for DIN rail mount with DIO 2 IN, 2 OUT, 5-key keypad, LED display	Consult
Consult	SCT-4X-PRONET high speed 4 channel weight transmitter and PROFINET port for DIN rail mount with DIO 2 IN, 2 OUT, 5-key keypad, LED display	Consult

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:**

± 39 mV

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) 0-5VDC, 0-10VDC (Minimum 10,000 ohm)

Annunciators:

Nine LEDs

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	\$475.00
129394	SCT-10 converter with Analog Output in enclosure	1 lb	\$625.00

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		\$10.00

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

Excitation Voltage:

5VDC, 120mA, 8×350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

0.3 µV/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:

Optoisolated, 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 10 k 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:



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	\$475.00
129397	SCT-20 converter with DeviceNet™	1 lb	\$625.00
129558	SCT-20 converter with Profibus™ DP	1 lb	\$675.00
129398	SCT-20 converter with EtherNet/IP™	1 lb	\$850.00
132534	SCT-20 converter with Ethernet TCP/IP™	1 lb	\$850.00
156903	SCT-20 converter with Modbus/TCP	1 lb	\$850.00
131128	Installation manual	1 lb	\$25.00
NTEP Appr	oved		
162883	SCT-20 converter with Analog Output	1 lb	\$525.00
162886	SCT-20 converter with EtherNet/IP	1 lb	\$925.00
162887	SCT-20 converter with Ethernet TCP/IP	1 lb	\$925.00
FILE ALLIAN	and Mandhara automatic home and to Dural Dant in 2010		

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:

Optoisolated, 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:



Part Number/Price

Part #	Description	Est. Weight	Price
156794	SCT-30 converter with Analog Output	1 lb	\$375.00
156834	SCT-30 converter with Analog Output in enclosure	1 lb	\$525.00

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		\$10.00

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:



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 error conditions
- · 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
- · Full scale analog cut put with zero setting and PLC correction of analog signal
- 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

Part Number/Price

Part #	Description	Est. Weight	Price
170470	SCT-40 with Analog Output	1 lb	\$675.00
170471	SCT-40 with DeviceNet	1 lb	\$950.00
170472	SCT-40 with Profibus	1 lb	\$950.00
170473	SCT-40 with EtherNet/IP	1 lb	\$950.00
170474	SCT-40 with Ethernet TCP/IP	1 lb	\$900.00
170475	SCT-40 with Modbus TCP	1 lb	\$950.00
170476	SCT-40 with Profinet I/O	1 lb	\$950.00
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: +/-39 mV

Analog Signal Sensitivity:

0.3 µV/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:

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:



Part Number/Price

Part#	Description	Price
157323	Ranger 7 high resolution calibration simulator	\$995.00

Options/Accessories

Part#	Description	Price
21116	Cable (4ft) with banana plugs	\$68.00

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 mV/V, 0.1 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: ± 0.01% + 1μV

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:

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

Output Range: 0 to 3 mV/V in 0.01 mV/V steps

LED Annunciators:

EXC +

Offset ON

0.5 mV/V

0.1 mV/V

Warranty:

One-year limited

