TranSend™ MSI-7000

Wireless Load Cell Interface System

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

Power:
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

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
5-6 VDC Power Input			
159207	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
161949	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
176648	Four-channel transmitter, no relays, Wi-Fi	2 lb	Consult
176652	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	Consult
7-36 VDC Power Input			
159470	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
161951	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
176650	Four-channel transmitter, no relays, Wi-Fi	2 lb	Consult
176653	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	Consult
85-265 VAC Power Input			
159469	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
161950	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
176647	Four-channel transmitter, no relays, Wi-Fi	2 lb	Consult
176651	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	Consult
Receivers			
5-6 VDC Power 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	Consult
160017	MSI-7000 four-channel receiver to provide RS232 serial output	2 lb	Consult
7-36 VDC Power Input			
159478	MSI-7000 four-channel receiver to provide RS232 serial output	2 lb	Consult
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	Consult
85-265 VAC Power Input			
159477	Four-channel receiver to provide RS232 serial output	2 lb	Consult
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	Consult

Options/Accessories

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

INDICATORS / CONTROLLERS

TranSend™ MSI-7001

Wireless Load Cell Interface System

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

Power:
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

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
5-6 VDC Power Input			
160330	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
176655	Single-channel transmitter, no relays, Wi-Fi	2 lb	Consult
7-36 VDC Power Input			
160329	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
176656	Single-channel transmitter, no relays, Wi-Fi	2 lb	Consult
85-265 VAC Power Input			
160328	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	Consult
176654	Single-channel transmitter, no relays, Wi-Fi	2 lb	Consult
Receivers			
5-6 VDC 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	Consult
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	Consult
161941	Single-channel receiver to provide RS232 serial output	2 lb	Consult
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	Consult
161939	Single-channel receiver to provide RS232 serial output	2 lb	Consult
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	Consult
85-265 VAC 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	Consult
161938	Receiver to provide RS232 serial output	2 lb	Consult
160332	7001AN AC power	-	Consult

Options/Accessories

Part #	Description	Price
162177	Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers	Consult
164865	Cable, 4 m, one-channel, mV/V output, LC input	Consult
165648	Cable, 5 m, one-channel, mV/V output, LC input	Consult
165651	Cable, 10 m, one-channel, mV/V output, LC input	Consult
162184	Load cell connector, TranSend, field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers.	Consult
162185	Load cell connector, TranSend, field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers.	Consult
162186	Load cell connector, TranSend, field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers.	Consult
162187	Load cell connector, TranSend, field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers.	Consult
145084	Cable, 2 m, one-channel, analog output	Consult
144400	Cable, 5 m, one-channel, analog output	Consult
168903	Cable, 10 m, one-channel, analog output	Consult
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 m OD	Consult
162172	Charger, TranSend™ for 6 V SLA battery	Consult
162173	Battery, TranSend 6 V SLA	Consult
162175	Enclosure, TranSend for 6 V SLA battery	Consult
160109	AC adapter, TranSend 6 V	Consult
143531	Power cord, 6 V SLA battery charger EU	Consult
143533	Power cord, 6 V SLA battery charger, Australia	Consult
143534	Power cord, 6 V SLA battery charger, UK	Consult
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	Consult
162178	Antenna extension kit, 6 ft coax cable	Consult
139309	Antenna kit, long range Omni with 3 m coax cable	Consult
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	Consult
197013	Antenna extension kit, 20 ft	Consult
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	Consult
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	Consult
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	Consult
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	Consult
150964	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector	Consult
150965	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector	Consult
145085	RS-232 serial cable, unterminated	Consult

INDICATORS / CONTROLLERS

TranSend™ MSI-7000HD
Wireless Load Cell Interface System

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

Power:
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

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
7-36 VDC Power Input			
177944	Four-channel 7-36VDC, three coil relays, 802.15.4		Consult
177997	Four-channel 7-36VDC, three coil relays, Wi-Fi		Consult
9-36 VDC Power Input			
177945	Four-channel 9-36VDC isolated, three coil relays, 802.15.4		Consult
177998	Four-channel 9-36VDC isolated, three coil relays, Wi-Fi		Consult
85-265 VAC Power Input			
177942	Four-channel 85-265VAC, three coil relays, 802.15.4		Consult
177995	Four-channel 85-265VAC, three coil relays, Wi-Fi		Consult

Options/Accessories

Part #	Description	Price
187424	Dual XBee option kit for 7000HD with TNC antenna	Consult
162178	Antenna extension kit, 6 ft coax cable	Consult
139309	Antenna kit, long range Omni with 3 m coax cable	Consult
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	Consult
197013	Antenna extension kit, 20 ft	Consult
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	Consult
139312	Antenna kit, Yagi 15 dbi with 3 m coax cable	Consult
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	Consult
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	Consult
148624	RS-232/RS-485 serial cable	Consult
143348	Cordset IP68 5-pin male	Consult
141263	12V Battery Half Plate, requires seperate power cable	Consult

TranSend™ MSI-7001HD
Wireless Load Cell Interface System

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

Power:
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

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
5-6 VDC			
178010	Two-channel 5-6VDC, 802.15.4		Consult
178018	Two-channel 5-6VDC, Wi-Fi		Consult
7-36 VDC			
178011	Two-channel 7-36VDC, 802.15.4		Consult
178019	Two-channel 7-36VDC, Wi-Fi		Consult
9-36 VAC Isolated			
178012	Two-channel 9-36VDC isolated, 802.15.4		Consult
178020	Two-channel 9-36VDC isolated, Wi-Fi		Consult
85-265 VAC			
178021	Two-channel 85-265VAC, 802.15.4		Consult
178017	Two-channel 85-265VAC, W-iFi		Consult

Options/Accessories

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

RICE LAKE