



FEATURES AND BENEFITS

Promotes Communication

- Converts 4-20 mA data into RS-422/485
- Allows 16 devices to be connected to a single input box
- Each data stream is addressed and communicated individually

All Devices Are Visible

 The ORB remote inventory management system can obtain and monitor information for any 4-20mA device at a location

InvisiLink™ Wireless Radio Option

 Eliminate costly wiring and conduit with direct communication between devices The ORB™ 4-20 mA Input Box promotes communication from the 4-20 mA devices and transforms the data to a serial RS-422/485 communication for interfacing with other instruments and management equipment. The 4-20 mA Input Box enhances the communication ability of all the measuring and weighing devices as well as other devices such as temperature and moisture sensors.

HOW TO ORDER

ORB 420-01-B	4-20 mA Input Box for ORB; Includes (1) 4-Channel Input Board, (1) Power Supply, (1) Enclosure with Expansion Room for 3 Additional Input Boards			
ORB 420-02-B	4-20 mA Input Box for ORB; Includes (2) 4-Channel Input Boards, (1) Power Supply, (1) Enclosure with Expansion Room for 2 Additional Input Boards			
ORB 420-03-B	4-20 mA Input Box for ORB; Includes (3) 4-Channel Input Board, (1) Power Supply, (1) Enclosure with Expansion Room for 1 Additional Input Board			
ORB 420-04-B	4-20 mA Input Box for ORB; Includes (4) 4-Channel Input Boards, (1) Power Supply, (1) Enclosure			
SPK-ORB-420-01	4-Channel Input Board w/Mounting Hardware for ORB			
4-20 mA Input Box with InvisiLink Wireless Radio				
(ORB 4-20mA PN)-B11	With InvisiLink Wireless Capabilities, Standard Antenna, RS-422			
(ORB 4-20mA PN)-B21	With InvisiLink Wireless Capabilities, Extended Range Antenna, RS-422; includes 6 ft (1.8 m) Connection cable			

4-20mA STANDARD SPECIFICATIONS

Power Supply	120 VAC
Communication	RS-422/485
Input	4-20mA
Addressing	8 position dip switches for binary addressing
Temperature	0 to 120°F (-17° to 48° C) Operating -20 to 150°F (-20° to 65° C) Storage Humidity: 0 to 100% non-condensing
Enclosure Size	6" x 8" x 10"
Board Size	3" x 5" x 0.75"
Enclosure	NEMA-4X, Fiberglass Reinforced Plastic

INVISILINK™ SPECIFICATIONS

FUNCTION		
Input/Output	RS-485, RS-422	
Frequency	900 Mhz	
Power Supply	120 VAC	
Ambient temperature (Electronics)	-40° to 185° F (-40° to +85° C) 4-20 mA: 0° to 120° F (-17 to 48° C)	
PERFORMANCE		
Transmission Speed (Baud Rate)	RS-485: 115.2 RS-422: 9600	
Transmit Power	1 mW to 1 W	
Transmission Distance	3000 ft (914 m)*	
PHYSICAL		
Housing Material	NEMA 4X, Fiberglass	
Extended Range Antenna	Up to 40 miles (64 km) NEMA 4X Outdoor includes lightening arrestor**	
Visual Indicators	LED Lights (Power,	

*Distances may be reduced depending on environment. Maximum distance
determined in indoor/urban environment with direct line of sight, no obstacles.

Communication and Signal)

PRODUCT COMPATIBILITY

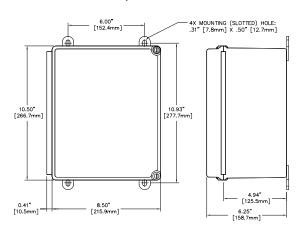
	COMMUNICATION	
DEVICE	RS-485	RS-422
Bindicator 3D Level Scanner	х	
Bindicator Mark-4/GP-4 Yo-Yo	х	
Bindicator/Kistler-Morse® ORB™		х
Bindicator/Kistler-Morse ORB 4-20mA Input Box		х
Bindicator SonoTracker		х
Kislter-Morse Ultrawave		х
Kistler-Morse MVS		x
Kistler-Morse STXplus		х
Kistler-Morse SVS2000		х
Kistler-Morse Weigh II		х
Niagara Meters 5600 Controller		х

Note: RS-485 Communication will be programmed at a baud rate of 115200; RS-422 Commuication will be programmed at a baud rate of 9600.

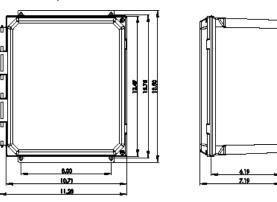
DIMENSIONAL DRAWINGS

Standard 4-20mA Input Box

Visual Indicators



4-20mA Input Box with InvisiLink Wireless Radio



Extended Range (Optional) Antenna







^{**} Consult Factory for extended range distances.