



# HAZARDOUS LOCATIONS

## FLOWLINE EXPLOSION PROOF LEVEL TRANSMITTER

**ECHOSAFE**

### DESCRIPTION

The Flowline Model EchoSafe is an explosion proof, industrial-grade ultrasonic liquid-level transmitter with automatic temperature compensation. Liquid conductivity, clarity, foam, or suspended solids do not affect the highly accurate 4-20 mA output since no contact is made with the material being measured.

### FEATURES

- Class I Division 1, Groups A, B, C, D; Class II, Groups E, F, G; Class III Division 1, Groups E, F, G
- Compact XP enclosure with viewing window and dual conduit ports
- Narrow (3") beam for use in tight locations
- Integral display
- Simple pushbutton calibration
- Suitable for a wide variety of liquids
- Not affected by foam, dirty liquids, etc.
- 8' to 24.6' range (20 cm to 7.5m)
- Fail-Safe intelligence with diagnostic feedback
- Display in inches or centimeters



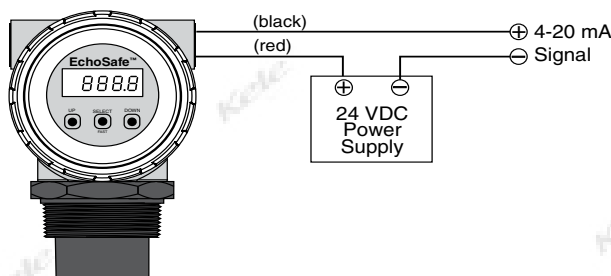
EchoSafe

### SPECIFICATIONS

<b>Supply Voltage</b>	18-28 VDC (loop powered)	<b>Operating Temperature</b>	-4° to 140°F (-20° to 60°C)
<b>Accuracy</b>	0.2% of maximum range	<b>Temperature Compensation</b>	Automatic over entire range
<b>Resolution</b>	0.079" (2 mm)	<b>Pressure Rating</b>	30 psig (207 kPa)
<b>Range</b>		<b>Enclosure Rating</b>	NEMA 4X, Transducer: PVDF, Enclosure: Aluminum, Window: Glass
<b>XP88-0</b>	8" to 24.6' (20 cm to 8 m)	<b>Mounting</b>	2" NPT threads
<b>XP89-0</b>	8" to 32.8' (20 cm to 10 m)	<b>Conduit Connection</b>	Two 1/2" NPT
<b>Ultrasonic Beam</b>	3" wide	<b>Area</b>	Class I, Division 1, Groups A, B, C, D; Class II, Groups E, F, G; Class III
<b>Signal Output</b>	4-20 mA @ 250Ω or 20-4 mA, two-wire loop powered	<b>Weight</b>	6 lb (2.7 Kg)
<b>Display Type</b>	LCD, 6-digits	<b>Approvals</b>	FM, RoHS, CE
<b>Display Units</b>	Inch, cm, percent	<b>Warranty</b>	1 year
<b>Setup</b>	3 Button Calibration		
<b>Fail Safe</b>	4 mA, 20 mA, 21 mA, 22 mA, or hold last		

### WIRING

The EchoSafe requires 14-28 VDC power and a load that receives a 4-20 mA current input. Connect the red wire of the transmitter to the positive VDC terminal on the power supply. Connect the black wire on the transmitter to the (+) terminal on the load. Connect the (-) of the load to the (-) of the power supply.

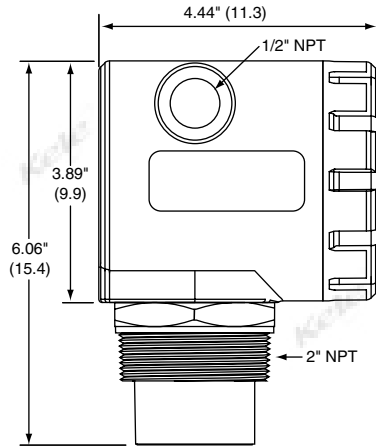


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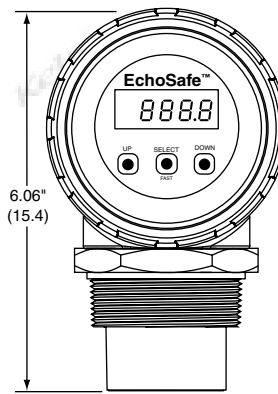
## FLOWLINE EXPLOSION PROOF LEVEL TRANSMITTER ECHO SAFE



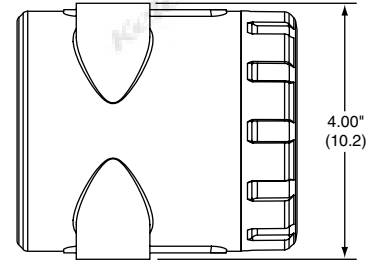
### DIMENSIONS



Side View



Front View



Top View

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### ORDERING INFORMATION

#### MODEL

**XP88-00**  
**XP89-00**

#### DESCRIPTION

Explosion proof level transmitter, 8" to 24.6' (20 cm to 8 m)  
Explosion proof level transmitter, 8" to 32.8' (20 cm to 8 m)

#### LM50-1001

#### ACCESSORIES

2" Mounting bracket

#### ACK6F

#### DCP-1.5-W DCPA-1.2 EYM-50

#### RELATED PRODUCTS

Cement: 30 oz \* (850g) Fiber: 5 oz (142g), 25 cu in (410 cu cm) volume when set  
\* Consists of five 6 oz (187g) cement pouches  
Power supply, 24 VAC IN to 24 VDC OUT  
Power supply, 120 VAC IN to 24 VAC/24 VDC OUT  
1/2" size, 1.06" turning radius, 1 oz Kwiko cement required, Malleable Iron construction