

Ultrasonic Level Transmitter

Features

- Non-Contact Measurement of Level, Volume, Proximity, and Distance
- NEMA-4 Construction
- RS-232 Interface for Set-Up and Configuration
- Suitable for Harsh Environmental Applications

Applications

- Wastewater Treatment Plants
- Tank Level Measurement
- Surface Water
- Sea Water Depth



Description

The Ultrasonic Level Transmitter (ULT) is a non-contact, solid state device for the measurement of level, volume, proximity, or distance in corrosive material environments. The ULT operates by transmitting a series of ultrasonic sound waves in a cone shaped pattern. Sound waves reflect from the target being measured back to the sensor, which measures the time interval between transmitting and receiving the sound wave. Calculated by the speed of sound, the time interval is converted to a distance measurement.

The analog output can be configured normally or inversely proportional to distance from the target being measured. The ULT is available with a standard range of 1-10 feet, but is available for closer range applications upon request. Adjustments to zero and span allow for further customization of the measurable range for specific applications. These settings are achieved through the unit's RS-232 interface, and reside in non-volatile, internal memory.

www.stevenswater.com

Stevens

Ultrasonic Level Transmitter



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Technical Specifications

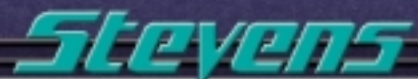
	Part Number 90841	Part Number 90842
Power Requirements	12-24 VDC, 100mA	12-24 VDC, 100mA
Deadband	1 foot	4 inches
Environment	<ul style="list-style-type: none">-30°C to +60°CTemperature Compensated0 to 100% humiditySuitable for occasional washdown	<ul style="list-style-type: none">-30°C to +60°CTemperature Compensated0 to 100% humiditySuitable for occasional washdown
Accuracy	0.25% of range	0.5% of range
Output/Ranges	<ul style="list-style-type: none">Selectable 4-20mA outputNormal or inverse outputProgrammable range of 1 to 10 feet	<ul style="list-style-type: none">Selectable 4-20mA outputNormal or inverse outputProgrammable range of 4 inches to 6 feet
Size	2.37" dia. x 8" length (60mm x 203mm)	2.37" dia. x 5.5" length (60mm x 140mm)

Ordering Information

The Ultrasonic Level Transmitter package includes 6 feet (1.84 meters) of cable, but additional cable is available upon request. If a mounting bracket is required, please specify either Stainless Steel or Zinc Plated when ordering. Two sensor options are available based upon the required measurement range.

Part Number	Description	
90841	Ultrasonic Level Transmitter	1.0 to 10.0 feet (0.10 to 3.05 meters)
90842	Ultrasonic Level Transmitter	0.33 to 6.0 feet (0.30 to 1.82 meters)
92979	Stainless Steel Mounting Bracket	
92980	Zinc Plated Mounting Bracket	
92981	Additional cable	

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