



ECHOTOUCH™ TWO-WIRE ULTRASONIC LEVEL TRANSMITTER



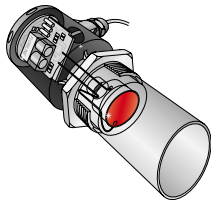
- Accurate and reliable level measurement from 0.5 to 18 feet
- 8° beam allows application in restricted environments
- Rugged NEMA 4X enclosure with PVDF transducer
- Adjustable blocking distance filter for broad application
- Automatic temperature compensation over entire range
- Easy-Cal™ push button calibration for all user set points
- LCD digital display indicates level in inches or centimeters
- Echo-Map™ filtration eliminates false echo signal returns
- Fail-safe intelligence provides maximum process safety



A high frequency ultrasonic sound wave is pulsed two times per second from the base of the transducer. The sound wave reflects against the process medium below and returns to the transducer. The microprocessor based electronics measure the time of flight between the sound generation and receipt, and translates this figure into the distance between the transmitter and process medium below.

SPECIFICATIONS

Range: 0.5 to 18'
(15 cm to 5.4m)
Accuracy: ± 0.25% of span in air
Resolution: 0.125" (3 mm)
Frequency: 50 kHz.
Pulse rate: 2 per second
Beam width: 8° conical
Dead band: 0.5' (15 cm) minimum
Display type: 4 segment LCD
Display units: Inch (cm)
Memory: Non-volatile
Supply voltage: 12-36 VDC
Loop resistance: 900 ohms @ 36 VDC
Signal output: 4-20 mA, 12-36 VDC
Signal invert: 4-20/20-4 mA
Calibration: Push button
Fail-safe diag.: Reverts to 4mA or 22mA
Temp. rating: F: -40° to 140°
C: -40° to 60°
Temp. comp.: automatic over entire range
Pressure rating: 30 psi (2 bar) @ 25 °C., derated @ 1.667 psi (.113 bar) per °C. above 25 °C.
Enclosure rating: NEMA 4X (IP68)
Enclosure Mat'l: PP (U.L. 94 VO)
Transducer Mat'l: PVDF
Mounting threads: 2" NPT
Mounting gasket: Viton (2") metric
Conduit conn.: 1/2" NPT



APPLICATION

The two-wire, general purpose ultrasonic level transmitter is mounted through the top wall of the tank and provides non-contact measurement up to 18'. With non-contact technology, the transmitter is an excellent choice for applications with dirty, coating, slurry or corrosive type liquids.

Approvals

CE compliance: EN 50082-2 immunity
EN 55011 emission

General Purpose	Yes	Low pressure	Yes
Conductive	Yes	Medium pressure	No
Non-conductive	Yes	Intrinsically safe	No
Δ Conductive	Yes	Integral relay	No
Non-contact	Yes	Foam	No
Clean	Yes	Contact	No
Dirty	Yes	Vapors	No
Coating	Yes	Δ Gas density	No
Non-coating	Yes	Vacuum	No
Ambient pressure	Yes		



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Ultrasonic Level Transmitter		STARTS FROM
LU20 - 50 <input type="checkbox"/> 1		\$ 795
Mounting Thread (1) <input type="checkbox"/>		Add \$ _____
0 - 2" NPT		Total \$ _____
6 - 2" G (add \$5)		

The G thread sensor comes with a 2" Viton mounting gasket.

LEVEL SUPERSTORE