



ECHOTOUCH™ THREE-WIRE ULTRASONIC LEVEL TRANSMITTER



- Accurate and reliable measurement from 0.5 to 40 feet
- Integral relay for alarm or automatic filling or emptying
- 8° beam allows application in restricted environments
- Rugged NEMA 4X enclosure with PVDF transducer
- Automatic Temperature Compensation Over Entire Range
- Easy-Cal™ push button calibration for all user set points
- LED digital display indicates level in inches or centimeters
- Echo-Mat™ filtration eliminates false echo signal returns
- Fail-Safe intelligence provides maximum process safety



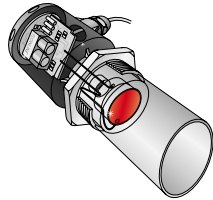
A high frequency ultrasonic sound wave is pulsed eight times per second from the base of the transducer. The sound wave reflects against the process medium below and returns to the transducer. The microprocessor based electronics measure the time of flight between the sound generation and receipt, and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

SPECIFICATIONS

Range: 1.5 to 40' (.5 to 12.2 m)
 Accuracy: ± 0.25% of span in air
 Resolution: 0.125" (3 mm)
 Frequency: 26 kHz.
 Pulse rate: 8 per second
 Beam width: 8° conical
 Dead band: 1.5' (.5 m) minimum
 Display type: 4 segment LED
 Display units: Inch (cm)
 Memory: Non-volatile
 Supply voltage: 14-36 VDC
 Consumption: 200 mA maximum
 Current flow: Source/sink
 Signal output: 4-20 mA, 14-36 VDC
 Calibration: Push button
 Relay type: (1) SPDT
 Relay current: 250 VAC, 10A, 1/2 hp.
 Relay mode: Selectable NO or NC states

Contact resist.: 30 milliohms
 Fail-safe diag.: Relay inverts to safe position
 Temp. rating: F: -40° to 140°
 C: -40° to 60°
 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: PVC
 Mounting threads: 3" Flange (4 hole)
 Conduit conn.: 1/2" NPT



APPLICATION

The three-wire, general purpose ultrasonic level transmitter is mounted through the top wall of the tank and provides non-contact measurement up to 40' with an integral relay for pump, valve or alarm control. With non-contact technology, the transmitter is an excellent choice for applications with dirty, coating, scaling or corrosive type liquids.

Approvals

CE compliance: EN 50082-2 immunity (pending)
 EN 55011 emission
 EN 61010-1 safety

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



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This document is provided for reference and is believed to be accurate at the time of publication. However, Flowline reserves the right to change the product specifications at any time without notice. Additional information may be obtained on the Internet at <http://www.flowline.com> or by contacting Flowline.

Ultrasonic Level Transmitter	STARTS FROM
LU50-7001	\$ _____
	Add \$ _____
	Total \$ _____

The sourcing output provides an internal excitation for use with sinking devices. The sinking output requires external excitation for use with sourcing devices.

The LC95-1001 120 VAC power supply (rated 24 VDC @ 0.6A) may be purchased separately for \$185.00. For 240 VAC, order the LC96-1001 power supply.

LEVEL SUPERSTORE