## Echotouch USU Level Transmitter



#### **Features**

- ▼ LCD digital display indicates level in inches or centimeters
- PP enclosure rated NEMA 4X with rugged Kynar® transducer
- EasyCal simple push button calibration for all user set points
- Adjustable dead band and range filters eliminate false echo returns

### **Description**

Offered in CSA and Cenelec approved intrinsically safe or general purpose configurations, the two-wire ultrasonic transmitter provides noncontact level measurement up to 18' or 5.4m, and is ideally suited for challenging corrosive, slurry or waste liquids. The transmitter is typically selected for atmospheric bulk storage, day tank and waste sump applications located within a classified hazardous area. Media examples include diesel fuel and hydrochloric acid. The transmitter is calibrated in less than a minute using the LCD display, 4-button interface and intuitive calibration menu. All user set points are held in nonvolatile memory. In the event of acoustic signal loss, the transmitter will hold the current output at the user designated safe state.

## **Specifications**

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Range:	0.5' to 18'	
	(15 cm to 5.4m)	
Accuracy:	$\pm$ 0.25% of span in air	
Resolution:	0.125" (3 mm)	
Beam width:	8° conical	
Dead band:	0.5' (15 cm)	
Display type:	LCD, 4-digit	
Display units:	Inch or cm	
Memory:	Non-volatile	
Supply voltage:	12-32 VDC	
Loop resist.:	600 Ohms @ 24 VDC	
Signal output:	4-20 mA, two-wire	
Signal invert:	4-20 or 20-4 mA	
Calibration:	Digital, push button	
Fail-safety:	Reverts to safe state	
	during echo-loss	
Process temp.:	F: -40° to 140°	
	C: -40° to 60°	
Temp. comp.:	Automatic	
Electronics temp.:	F: -4° to 140°	
	C: -20° to 60°	

Pressure:	30 psi (2 bar) @ 25 C., derated @ 1.667 psi (.113 bar) per °C. above 25° C.
Enclosure rating:	NEMA 4X (IP65)
Installed height:	5.1" (13 cm) above
	tank process mount
Encl. material:	PP, UL94VO
Trans. material:	PVDF Kynar®
Process mount:	2" NPT (2" G)
Mount. gasket:	Viton® (G version only)
Conduit entrance:	Single, 1/2" NPT
Classification:	Intrinsically safe
Approvals:	CSA: Class I, Groups A, B, C & D; Class II, Groups E, F and G; Class III; T3C
Parameters:	CSA: Vmax < 32.0 V; Imax < 130 mA; Ca = 0 μF; La = 0 μH
Certificates:	CSA: LR 79326
CE compliance:	EN 50082-2 immunity EN 55011 emission

#### **Echotouch**

**Ordering** 





LB<sub>10</sub> Shown

- 1) The straight G thread version seals with an included Viton® mounting gasket.
- 2) For installation on open tanks, order the LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket. Locate the bracket far enough inboard from the side wall to avoid sensor beam width conflicts.
- To order the general purpose transmitter, do not specify the last two digits (ie: LU20-5001).
- 4) To complete your IS transmitter, add the LB10-1001 intrinsic safety barrier.





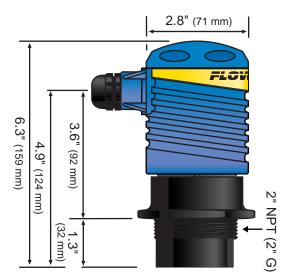






# **Echotouch** Ultrasonic Level Transmitter

#### **Dimensions**



Specifications are subject to change without notice.

#### **Beam Cone Data**

Deptn	Raaius	Radius
(Feet)	(Inches)	(cm)
1	1.2	3.1
3	2.9	7.3
5	4.6	11.6
7	6.2	15.9
9	7.9	20.1
11	9.6	24.4
13	11.3	28.7
15	13.0	32.9
17	14.6	37.2
19	16.3	41.3



