EchoSonic II™ *Ultrasonic Level Transmitter*

Specifications

Range:	LU27: 4" to 8.2' (10 cm to 2.5 m) LU28: 8" to 24.6' (20 cm to 7.5 m) LU29: 8" to 32.8' (20 cm to 10 m)
Accuracy:	± 0.2% Range
Resolution:	LU27: 0.019" (0.5 mm) LU28/29: 0.079" (2 mm)
Beam width:	LU27: 2" (5 cm) dia. LU28/29: 3" (7.6 cm) dia.
Dead band:	LU27: 4" (10 cm) LU28/29: 8" (20 cm)
Memory:	Non-volatile
Supply voltage:	24 VDC
Consumption:	0.5W
Loop resist.:	500Ω Ohms @ 24 VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Configuration:	WebCal® PC Windows® USB 2.0
Fail-safety:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Process temp.:	F: -4˚ to 140˚ C: -20˚ to 60˚
Temp. comp.:	Automatic
Ambient temp.:	F: -31˚ to 140˚ C: -35˚ to 60˚
Pressure:	MWP = 30 PSI
Enclosure rating:	Type 6P encapsulated, corrosion resistant & submersible
Encl. material:	Polycarbonate
Trans. material:	PVDF
Cable jacket mat.:	Polyurethane
Cable type:	4-cond., shielded
Cable length:	10' (3m)
Process mount:	LU27: 1" NPT (1" G) LU28/29: 2" NPT (2" G)
Mount. gasket:	Viton®
Classification:	General purpose
Compliance:	RoHS
Approvals:	CE, cFMus

LU28-00 Shown

LI99-1001 Shown

Description

The general purpose two-wire ultrasonic transmitter provides non-contact level measurement up to 32.8' (10 m), and is well suited for challenging ultrapure, corrosive, slurry or waste liquids. The transmitter is broadly selected for atmospheric bulk storage, day tank, waste sump, process vessel, IBC tote, 55-gallon drum and waste sump applications. Media examples include acetic acid and resin.

Fob USB®

The Fob USB interface tool (LI99-1001) and WebCal are necessary to change EchoSonics from the factory configuration. One Fob will configure all EchoSonics.

Features

☑ WebCal, an innovative PC user interface that provides fast and accurate configuration.

☑ Offered in 3 measurement ranges up to 32.8' (10 m).

☑ Optimize sensor placement with unmatched beam width for applications with restricted space.

☑ Industry leading miniature dead band maximizes the filling capacity of vessels.

☑ Polycarbonate enclosure rated NEMA 4X with PVDF transducer.

EchoSonic II Ordering

LU ☐☐ - ☐ 1

Sensor range / size (1)
- 27   2.5 m (8.2')
- 28   7.5 m (24.6')
- 29   10 m (32.8')

Process mount (2)
- 0   NPT (US)
- 1   G (Metric)

Ordering Notes
1) The NEMA 4X includes a standard 10' (3m) cable. To special order a 15' max (7.6m) cable, place the cable length at the end of the part number (ie: LU28-00-15).
2) For installation on open tanks, order the LM50-1001-1 (1" NPT) or LM50-1061-1 (1" G) side mount bracket; or order the LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket.
3) WebCal is a free download from our website at www.flowline.com/webcal (Windows® XP Compatible).