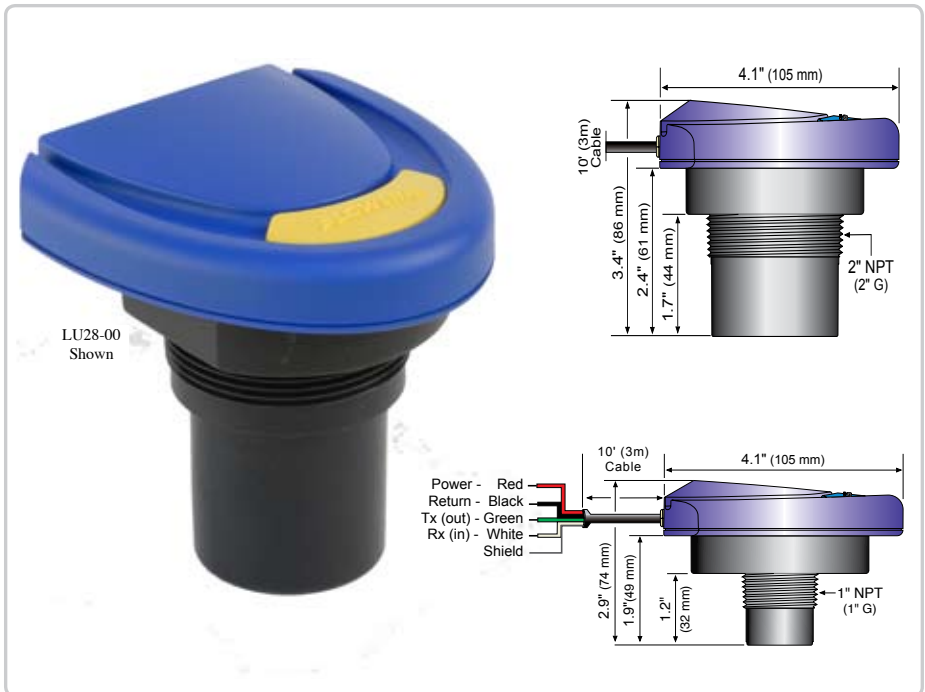


EchoSonic II™

Non-Contact Ultrasonic Level Transmitter

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.



Specifications

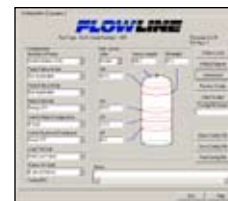
| | |
|--------------------|---|
| Range: | LU27: 4" to 8.2' (10 cm to 2.5 m) LU28: 8" to 24.6' (20 cm to 7.5 m) LU29: 8" to 32.8' (20 cm to 10 m) |
| Accuracy: | ± 0.2% Range |
| Resolution: | LU27: 0.019" (0.5mm) LU28/29: 0.079" (2 mm) |
| Beam width: | LU27: 2" (5 cm) dia. LU28/29: 3" (7.6 cm) dia. |
| 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: | cFMus, CE |

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 6P with PVDF transducer

Configuration

EchoPod is configured using Flowline's WebCal software and Fob, a USB® interface tool. A single configuration can be easily created, saved, duplicated, emailed or modified. Take control of your level process with WebCal's intuitive interface, pre-programmed menus, tank set point graphics and custom wiring diagrams for each of your configurations. It's level configuration made simple.



WebCal Software



LI99-1001 Shown

EchoSonic II Ordering

LU [] [] - [] 1

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

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

Ordering Notes

- 1) 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.
- 2) WebCal is a free download from our website at www.flowline.com/webcal (Windows® XP Compatible, USB 2.0).

