

EchoPod®

Ultrasonic Level Switch, Controller and Transmitter

Introducing EchoPod

Flowline introduces EchoPod, an innovative level sensor that replaces floats, conductance and pressure sensors that fail due to dirty, sticking and scaling media in small tanks 49.2" (1.25 m) or less. EchoPod, a general purpose sensor, combines non-contact switch, controller and transmitter capabilities in one package. Combining 4 relays, 4-20 mA output and pump/valve control in one small sensor allows EchoPod to be your total solution. Maintenance free, EchoPod reduces tank system hardware through simplicity and consolidation. Additionally, EchoPod is well suited for corrosive and dirty applications with its non-metallic housing and transducer. EchoPod provides a total solution for fluid handling and automation. The time to "Think Small and Win Big" is now, and it's with EchoPod.

Specifications

| | |
|---------------------|--|
| Range: | 49.2" (1.25 m) |
| Accuracy: | 0.125" (3 mm) |
| Resolution: | 0.019" (0.5 mm) |
| Beam width: | 2" (5 cm) |
| Dead band: | 2" (5 cm) |
| Supply voltage: | 24 VDC (loop) |
| Loop resistance: | 400Ω max |
| Consumption: | 35 mA maximum |
| Signal output: | 4-20 mA, two-wire (when loop powered) |
| Contact type: | (4) SPST relays 1A |
| Loop fail-safety: | 4 mA, 20 mA, 21 mA, 22 mA or hold last |
| Relay fail-safety: | Power loss: Hold last Power on: Open, close or hold last |
| Hysteresis: | Selectable |
| Configuration: | WebCal® PCWindows® software interface |
| Temp. comp.: | Automatic over range |
| Temperature: | F: -4° to 140° C: -20° to 60° |
| Pressure: | Atmospheric |
| Enclosure: | NEMA 4X encapsulated, corrosion resistant & submersible |
| Encl. material: | PC/ABS FR |
| Strain relief mat.: | Santoprene |
| Trans. material: | PVDF |
| Cable length: | 4' (1.2 m) |
| Cable jacket mat.: | PVC |
| Process mount: | 1" NPT (1" G) |
| Mount. gasket: | Viton® |
| Classification: | General purpose |
| Approvals: | CE |



Description

EchoPod, a general purpose non-contact ultrasonic level switch, controller and transmitter for small tanks 49.2" (1.25 m) or less. EchoPod enables flexible design applications for system integration or retrofit of floats, conductance and pressure sensors. Well suited for fluid handling and chemical feed applications integrating process or control automation of small tanks mounted on tools, skids or machines. The rugged PVDF enclosure is well suited for a wide range of corrosive, waste or slurry type media, and can be broadly selected for atmospheric day tank, process vessel or dispenser, pump lift station and waste sump applications. Level indication can be monitored via a local display or controlled through a PLC.

Advantages

- ✓ Provides switch, controller and transmitter capabilities
- ✓ Replacement of multi-point float, conductivity and pressure level switches
- ✓ WebCal, an innovative PC user interface that provides fast and accurate configuration
- ✓ Compact sensor with 2" dead band and beam width optimized for small tank applications 49.2" (1.25 m) or less



EchoPod®

Ordering

DL14-

Process mount (1) _____
 0 NPT (US)
 1 G (Metric)
 Fob USB interface (2) _____
 0 Without Fob
 1 With Fob

Ordering Notes

- 1) EchoPod can not be configured without the Fob USB interface tool (LI99-1001) and WebCal. One Fob will configure all EchoPods.
- 2) WebCal is a free download from our website at www.flowline.com/webcal (Windows® XP Compatible).

