

### Introducing EchoPod

The general purpose, ultrasonic sensor provides non-contact level detection up to 49.2" (1.25m) with 4 SPST 60 VA 1A relays and a two-wire 4-20 mA level measurement output. Each relay can be configured on a single set point alarm or latched on two sets for automatic fill or empty in simplex or duplex control modes with fail-safe logic. The embedded controller can replace external control hardware. The sensor is well suited for a wide range of corrosive, sticky or dirty type media. EchoPod is broadly selected for small atmospheric day tank, skid or process vessel, lift station, IBC, drum and sump applications. To configure EchoPod, download our free WebCal software and purchase one USB interface tool.

### 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:	0.5W
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® PC Windows® USB 2.0
Temp. comp.:	Automatic over range
Process Temp.:	F: 20° to 140° C: -7° to 60°
Ambient Temp.:	F: -31° to 140° C: -35° to 60°
Pressure:	MWP = 30 PSI
Enclosure:	Type 6P encapsulated, corrosion resistant & submersible
Encl. material:	PC/ABS FR
Strain relief mat.:	Santoprene
Trans. material:	PVDF
Cable length:	48" (1.2 m)
Cable jacket mat.:	Polyurethane
Process mount:	1" NPT (1" G)
Mount. gasket:	Viton®
Classification:	General purpose
Approvals:	CE, cFMus



### Features

- ✓ Multi-function sensor provides 4-20 mA measurement, relay switch and control functions
- ✓ Compact sensor with 2" beam width and 2" dead band optimized for small tank applications
- ✓ Four 1A relays programmable for switch or advanced pump or valve control and fail-safety
- ✓ Control / switch point functions include:
  - 2 pumps with 2 alarms
  - 1 pump with 3 alarms
  - 2 pumps (lead-lag) with 2 alarms
  - 2 pumps (duplexing) with 2 alarms
  - 4 independent switch point alarms
- ✓ Rugged PVDF transducer and polycarbonate enclosure rated 6P for corrosive media

### 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



### EchoPod®

### Ordering

<b>DL14-</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Process mount (1)</b>		
0	NPT (US)	
1	G (Metric)	
<b>Fob USB interface (2)</b>		
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](http://www.flowline.com/webcal) (Windows® XP Compatible, USB 2.0).