

# EchoPod®

## DL10 Ultrasonic Level Transmitter

### Introducing EchoPod

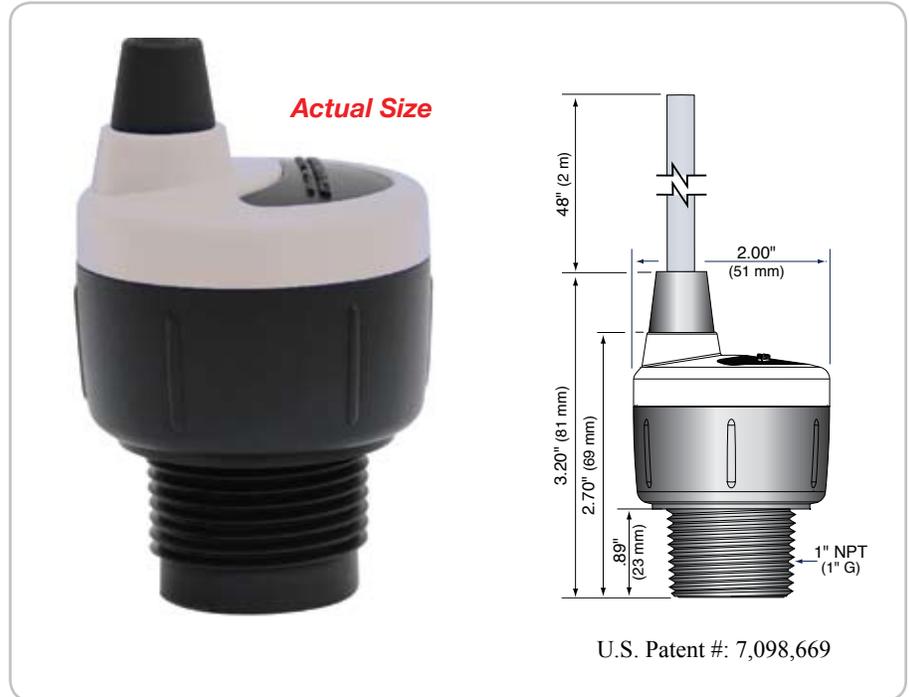
Flowline introduces the DL10 EchoPod, an innovative level sensor that replaces floats, conductance and pressure sensors that fail due to dirty, sticking and scaling media in small tanks 49.2" (1.25 m) or less. EchoPod, a general purpose sensor, provides non-contact level measurement transmitter. Maintenance free, EchoPod is unaffected by the media it measures. 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.

### Advantages

- ✓ Provides two-wire 4-20 mA analog output
- ✓ 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

### 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 @ 24 VDC
Consumption:	0.5W
Signal output:	4-20 mA, two-wire reversible mA
Loop fail-safety:	4 mA, 20 mA, 21 mA, 22 mA, hold last
Configuration:	WebCal® 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:	Polycarbonate
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



### Description

EchoPod DL10, a general purpose non-contact ultrasonic level 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.

### WebCal® Software

Simple software configuration through WebCal, using USB connectivity, enables flexible system integration or retrofit for suitable applications. WebCal's user interface makes configuration quick and simple for even novice computer users. By entering your application requirements through pre-programmed menus, WebCal will accurately configure EchoPod to your application requirements every time. Additionally, WebCal provides a printed wiring schematic and file management system that saves your configuration for back-up, technical assistance or additional applications. To get more information on WebCal, go to: [www.flowlineautomation.com](http://www.flowlineautomation.com).



### EchoPod®

### Ordering

<b>DL10-</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.flowlineautomation.com](http://www.flowlineautomation.com) (Windows® XP Compatible).