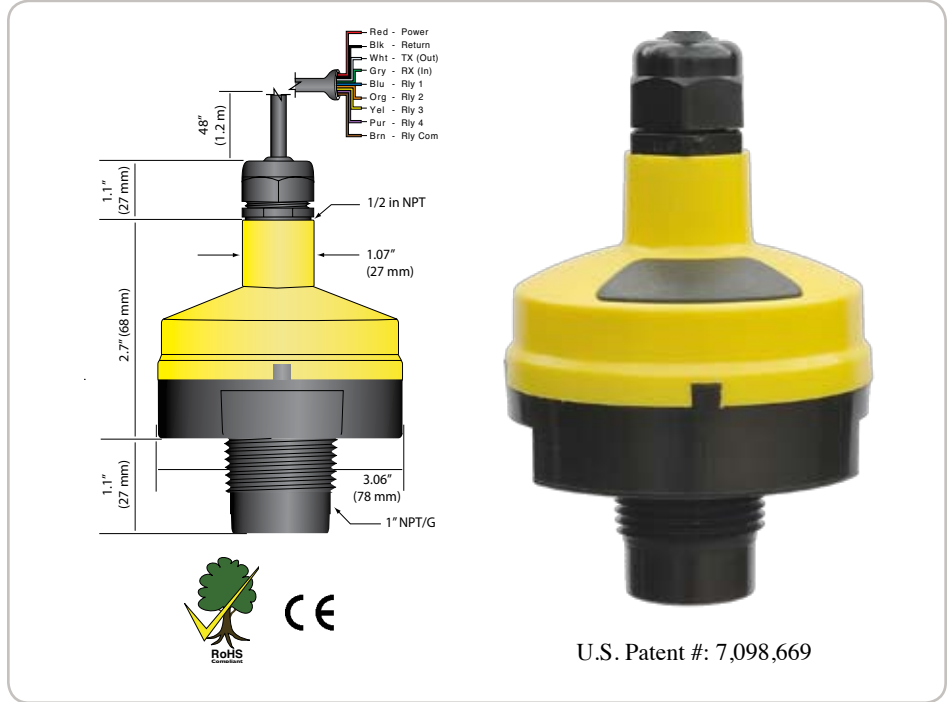


# EchoPod®

2.5m Ultrasonic Level Switch, Controller and Transmitter

## Introducing EchoPod

The general purpose, ultrasonic sensor provides non-contact level detection up to 98.4" (2.5m) 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 day tanks, sumps, IBC totes, lift stations and mini-bulk storage applications. To configure EchoPod, download our free WebCal software and purchase one USB interface tool.



## Specifications

Range:	98.4" (2.5 m)
Accuracy:	+/- 0.2 % range
Resolution:	0.019" (0.5 mm)
Beam width:	2" (5 cm)
Dead band:	4" (10 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 Echo loss: 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°
Pressure:	MWP = 30 PSI
Enclosure:	Type 6P encapsulated, corrosion resistant & submersible
Encl. material:	PC
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
Compliance:	RoHS

## Features

- ✓ Multi-function sensor provides 4-20 mA measurement, switch and control functions  
Compact sensor with 2" beam width and 4" dead band optimized for small tank applications
- ✓ Four 1A relays programmable for switch or advanced pump or valve control and fail-safety
- ✓ Rugged PVDF transducer and polycarbonate enclosure rated 6P for corrosive applications
- ✓ 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

## Configuration

EchoPod is user configured via our WebCal software through the Fob USB interface tool. Configuration files can be easily created, saved, copied into one or more units, 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 configuration. Click here to learn more about WebCal. Its level made simple.



WebCal Software



LI99-1001  
Shown

## EchoPod Ordering

<b>DL24-</b>		<input type="checkbox"/>	<input type="checkbox"/>
<b>Process mount</b>			
0	NPT (US)		
1	G (Metric)		
<b>Fob USB interface (1),(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).