# EchoPod®

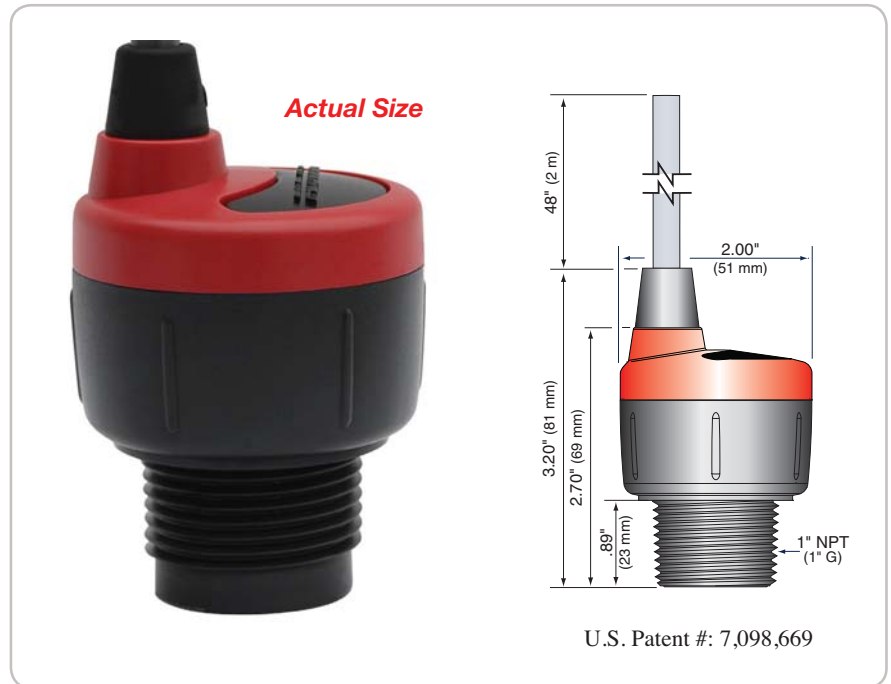## DS14 Ultrasonic Level Switch and Controller

## Introducing EchoPod

Flowline introduces the DS14 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 switch and control capabilities in one package. 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.

### Advantages

☑ Provides switch and control 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



*Actual Size*

U.S. Patent #: 7,098,669

## 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: | 12-24 VDC/VAC |
| Consumption: | 0.5W |
| Contact type: | (4) SPST relays 1A |
| Relay fail-safety: | Power loss: Hold last Power on: Open, close or hold last |
| Hysteresis: | Selectable |
| 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 DS14, a general purpose non-contact ultrasonic level switch and controller 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.

## WebCal™ Software

Simple software configuration through Web-Cal, 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-programed 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 http://www.flowline.com/webcal.

## EchoPod® Ordering

DS14-☐☐

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).