CLARK
EchoPod® Ultrasonic Level Switch/Transmitter/Controller
Loop Powered 4-20 mA Output, Range To 49.2" (1.25 m)

DESCRIPTION

EchoPod is 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" (1.25m) or less. EchoPod, a general purpose sensor. combines non-contact switch, controller and transmitter capabilities in one package. Combining 4 relays, 4-20mA output and pump/valve control in one small sensor allows EchoPod to be a 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. Echo-Pod provides a total solution for fluid handling and automation.

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.

SPECIFICATIONS

GENERAL
Range: 49.2" (1.25 m)
Accuracy: 0.125" (3mm)
Resolution: 0.019" (0.5 mm)
Beam Width: 2" (5 cm)
Dead Band: 2" (5 cm)
Supply Voltage: 24VDC (loop)
Loop Resistance: 400 Ohm Max.
Consumption: 35 mA Maximum
Signal Output: 4-20 mA (When loop powered)
Contact Type: (4) SPST, 1A relays
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® Windows® software interface
Temperature Compensation: Automatic over range
Operating Temperature: 20 to 140°F (-7 to 60°C)
Operating Pressure: Atmospheric
Enclosure: NEMA 4X, encapsulated, corrosive resistant & submersible
Enclosure Material: PC/ABS FR
Strain Relief: Santoprene
Transducer Material: PVDF
Cable Length: 48" (1.2 m)
Cable Jacket Material: Polyurethane
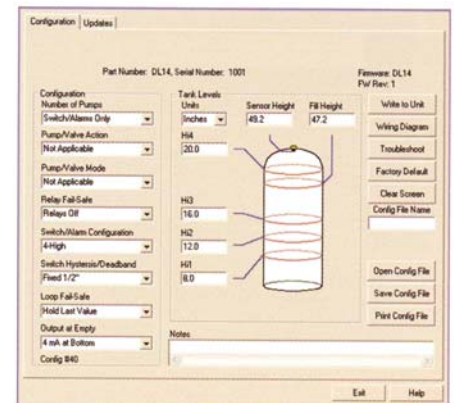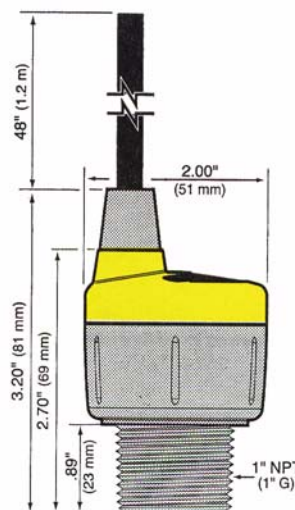**Process Mount:** 1" NPT or 1" G

FEATURES
~ 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" (1.25m) or less

DIMENSIONS

48" (1.2 m)
2.00" (51 mm)
3.20" (81 mm)
2.70" (69 mm)
.89" (23 mm)
1" NPT (1" G)

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 management system that saves your configuration for back-up, technical assistance or additional applications.

ORDERING INFORMATION

Model	Description
DL14-NPT	EchoPod, 1" NPT Process Connection
DL14-G	EchoPod, 1" G (Metric) Process Connection
L199-1001	USB Interface Tool to Program EchoPod (One unit can be used to program multiple EchoPods)

For a demonstration and download of WebCal™ goe to http://www.flowline.com/webcal