LEVEL

ULTRASONIC LEVEL SWITCH, TRANSMITTER, AND CONTROLLER
DL14 SERIES ECHOPOD

DESCRIPTION

The **DL14 EchoPod** ultrasonic level switch, transmitter and controller provides non-contact measurement of fluid level in tanks up to 49.2" (1.25m) in depth. The **DL14 EchoPod** is a compact, multi-function sensor with the WebCal PC user interface for configuration and calibration. The **DL14 EchoPod** combines four relays, a 4-20 mA output, and control for one or two pumps or valves.

The rugged PVDF enclosure is well-suited for a wide range of corrosive, waste, or slurry type media. It can be broadly applied to atmospheric day tanks, process vessels, dispensers, pump lift stations, and waste sumps. Level indication and control may be monitored via a local display or through the BAS.

NEW!

FLOWLINE

FEATURES

- *Provides switch, controller, and transmitter functions in one device*
- *Replaces multi-point, conductivity, or pressure-type level devices*
- *Free WebCal PC software provides fast and easy configuration*
- *Well-suited for corrosive and other dirty applications*
- *Maintenance-free*
- *Encapsulated, corrosion-resistant, submersible, NEMA 4X enclosure*

DL14-00

CE RoHS

SPECIFICATIONS

Power supply	24 VDC, 35 mA maximum	**Configuration**	Free WebCal Software (USB port fob tool LI99-1001 required)
Loop resistance	400Ω maximum @ 24VDC		
Signal output	4-20 mA, two-wire	**Temperature effect**	Automatic compensation
Contact output	(4) SPST relays, 1A maximum @ 24 VAC/VDC	**Electronics ambient**	20° to 160°F, (-7° to 60°C)
		Pressure	Atmospheric
Range	Up to 49.2" (1.25m)	**Enclosure rating**	Encapsulated, corrosion resistant, submersible, NEMA 4X
Accuracy	±0.125" (0.3 cm)		
Resolution	0.019" (0.05 cm)	**Enclosure material**	Polycarbonate/ABS FR
Beam width	2" (5 cm)	**Transmitter material**	PVDF
Deadband	2" (5 cm)	**Cable jacket material**	Polyurethane
Loop fail safety	Selectable 4 mA, 20 mA, 21 mA, 22 mA, or hold last	**Cable length**	48" (1.2m)
		Process mount	1" NPT with Viton gasket
Relay fail safety	Power loss: hold last	**Enclosure Dimensions**	3.2" H x 2.0"Ø (8.1 x 5.1 cm)
	Power on: hold last, open, or close	**Agency approvals**	CE, RoHS
Hysteresis	Selectable		

 2/1/2010

NEW!

WIRING

BLACK
WHITE
GREEN
RED

FLOWLINE
PART NO.: LI99-1001

Red - Power
Blk - Return
Wht - TX (Out)
Grn - RX (In)
Blu - Rly 1
Org - Rly 2
Yel - Rly 3
Pur - Rly 4
Brn - Rly Com
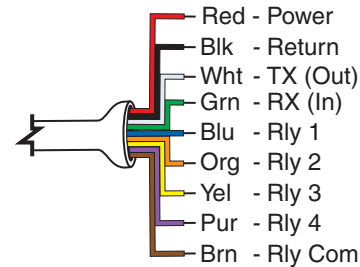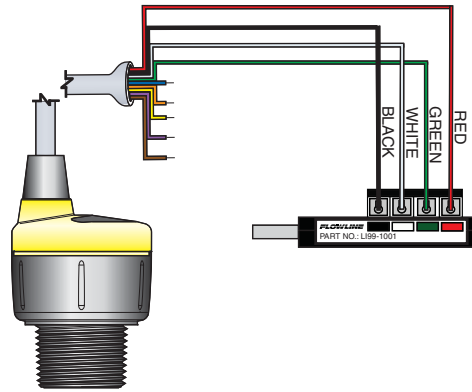
USB® Fob Interface

EchoPod communicates with WebCal through a USB® interface called a fob. Before plugging your fob into your computer's USB® port, be sure that you have installed WebCal on your computer.

Connect the red, green, white and black wires from EchoPod into the correct terminals on the fob. Tighten the screws on the terminals and plug your fob into the USB® port of your computer.

DIMENSIONS

in
(cm)

48.0
(121.9)

2.0
(5.1)

3.2
(8.1)

2.7
(6.9)

0.89
(2.3)
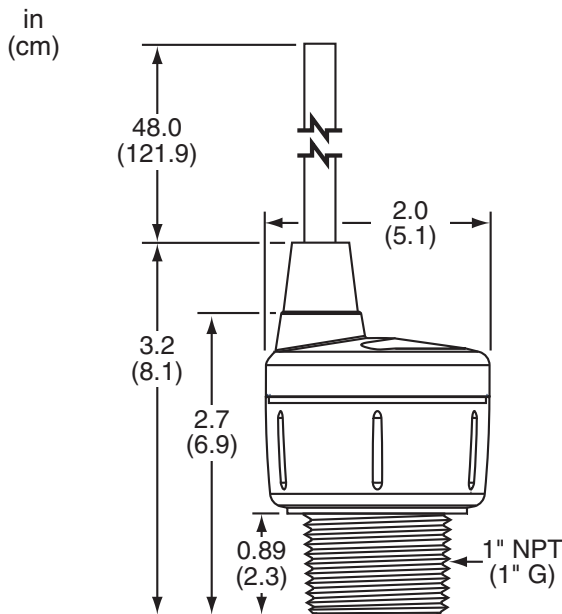
1" NPT
(1" G)

ORDERING INFORMATION

MODEL	DESCRIPTION
DL14-00	EchoPod level sensor, 1" NPT, with gasket, without fob
DL14-00	EchoPod level sensor, 1" NPT, with gasket, without fob
DL14-C9	EchoPod sensor calibrated for one pump empty and Hi/Lo alarms
DL14-C10	EchoPod sensor calibrated for one pump fill and Hi/Lo alarms
DL14-C28	EchoPod sensor calibrated for two pump empty and Hi alarm
DL14-C40	EchoPod sensor calibrated for four Hi alarms
DL14-C48	EchoPod sensor calibrated for two Hi and two Lo alarms
LI99-1001	USB fob for configuring EchoPod level sensor
204038	Replacement gasket

11

LEVEL

NEW!