LEVEL & LEAK DETECTION

ULTRASONIC LEVEL SWITCH, TRANSMITTER, AND CONTROLLER DL14. 24. 34 SERIES ECHOPOD



DESCRIPTION

The Flowline EchoPod DL14, 24 and 34 Series ultrasonic level switch, transmitter and controller provide non-contact measurement of fluid level in tanks up to 18 ft (5.5 m) in depth. The **EchoPod** is a compact multi-function sensor enabled by WebCal, a PC user interface for configuration and calibration. The DL Series combines 4 relays, a 4-20 mA output, and control for 1 or 2 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.













FEATURES

- Provides switch, controller, and transmitter functions in one device
- Free WebCal PC software provides fast and easy configuration
- Well suited for corrosive and dirty applications
- Maintenance free
- · Encapsulated, corrosion resistant submersible NEMA 4X enclosure

APPLICATION

- · Cooling tower tanks
- · Wastewater tanks
- Diesel fuel tanks
- Chemical feed tanks
- · Rinse tanks

SPECIFICATIONS

Supply Voltage 24 VDC, 35 mA maximum **Accuracy DL14** ±0.125" (0.3 cm) DL24/34 ±0.2% of range Signal Output 4-20 mA @ 400Ω , (loop powered)

Measurement Range

DI14 Up to 49.2" (1.25m) DL24 Up to 9.8' (3m) DL34 Up to 18.0' (5.5m)

4 - SPST relays (normally open) **Relay Type Relay Rating** 1 A maximum @ 24 VAC/VDC

Deadband

DL14 2" (5 cm) **DL24** 4" (10 cm) **DL34** 8" (20 cm)

Temperature Effect Automatic compensation

Beam Width

DL14 2" (5 cm) **DL24** 2" (5.08 cm) DL34 3" (7.62 cm)

Configuration Free WebCal software (USB port fob

tool L99-1001 required)

Fail Safe Signal 4 mA, 20 mA, 21 mA 22 mA,

or hold last signal Relay: Power loss Hold last signal Relay: Power on

Hold last signal, open, closed

Resolution

0.019" (0.05 cm) **DL14**

DL24 0.039" (1 mm) **DL34** 0.079" (2 mm) Transmitter **PVDF Cable Jacket** Polyurethene

Process Connection

DL14 1" NPT with Viton gasket **DL24** 1" NPT (1" G) with Viton gasket 2" NPT (2" G) with Viton gasket DL34

Cable Length 48" (1.2m)

Operating Temperature -31° to 140°F (-35° to 60°C) **Enclosure Rating** Encapsulated, corrosion resistant,

submersible. NEMA 4X

Dimensions

DL14 3.2"H x 2.0" diameter (8.1 x 5.1 cm) **DL24** 4.9"H x 3.06" diameter

(12.5 x 7.8 cm)

DL34 6.5"H x 3.06" diameter

(16.5 x 7.8 cm)

Weight

DL14 2 lb (0.9 Kg) 3.1 lb (1.4 Kg) DL24,34 **Approvals** CE, RoHS, FM

Warranty 1 year

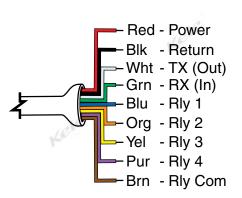


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SET UP AND CALIBRATION HOOK UP BLACK BLACK PART NO. LIGH-TION PART NO. LIGH-TOOL PART NO. LIGH-TOOL

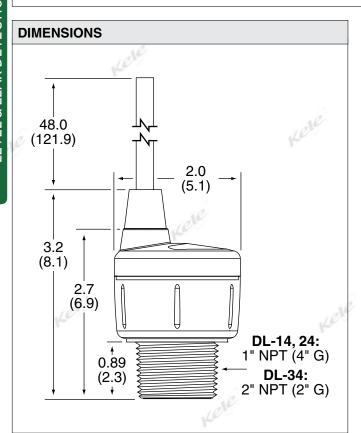
FIELD WIRING



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.



ORDERING INFORMATION

MODEL	DESCRIPTION		
DL14	EchoPod level sensor, up to 49.2" (1.25m)		
DL24	EchoPod level sensor, up to 9.8' (3m)		
DL34	EchoPod level sensor, up to 18.0' (5.5m)		
	0		process connection, DL14 & 24 - 1" NPT, 4 - 2" NPT
	1	Metric process connection, DL14 & 24 - 1" G, DL34 - 2" G	
		0	Without FOB USB adapter (order separately see related products)
		1	Includes FOB USB adapter

*Note: Specify alarm levels when ordering

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LI99-1001	Fob calibration key
LM52-1400	2"NPT x 1" NPT (Sch. 40) fitting
LM52-1800	2" NPT x 1" NPT (Sch. 80) fitting
LM52-1410	2" Socket x 1" NPT (Sch. 40) fitting
LM52-1810	2" Socket x 1" NPT (Sch. 80) fitting