

EchoPod[®] & EchoSonic[®] II Ultrasonic Liquid Level Sensors



The EchoPod and EchoSonic II are innovative ultrasonic liquid level sensor families that replace float, conductance and pressure sensors that fail due to contact with dirty, sticky and scaling media in small, medium and large capacity tanks. Applied in chemical, water and wastewater applications, these general purpose sensors are available with single and multi-function capabilities including continuous level measurement, switching and control.

For input to a PLC or other controller, measurement outputs include current, voltage and frequency. Models with four relays can be configured for level alarms and/or stand-alone level control such as automatic fill or empty functions using the embedded level controller. PC configuration is simple with WebCal™ software.

**Made
in the
USA**

EchoPod & EchoSonic II Ultrasonic Liquid Level Sensors General Specifications

Model	DL34-00	DL24-00	DL14-00	DS14-00	DX10-00	DL10-00	LU27-00	LU23-00	LU28-00	LU29-00	
Price	<-->	<-->	<-->	<-->	<-->	<-->	<-->	<-->	<-->	<-->	
Type	Ultrasonic										
Class	General Purpose (non-hazardous)										
Range	8 in to 18.0 ft (20 cm to 5.5m)	4 in to 9.8 ft (10 cm to 3m)	2 in to 4.1 ft (5 cm to 1.25m)				4 in to 9.8 ft (10 cm to 3m)	8 in to 18.0 ft (20 cm to 5.5m)	8 in to 26.2 ft (20 cm to 8m)	8 in to 32.8 ft (20 cm to 10m)	
Output Types	4-20 mA and (4) SPST relays			(4) SPST relays	0-5V, 0-10V, 976-2000 Hz	4-20 mA					
Install	Top Wall										
Mounting	2" NPT		1" NPT				2" NPT				
Relays	(4) SPST				No Relay						
Configuration	WebCal Software (free download) and LI99-1001 Fob USB Adapter (purchased separately)										
Ambient Temperature	-31° to 140°F (-35° to 60°C)										
Process Temperature	20° to 140°F (-7° to 60°C)						-4° to 140°F (-20° to 60°C)				
Pressure	30 PSI (2 bar) max.										
Material	PVDF transducer / NEMA Type 6P polycarbonate enclosure IP67										
Weight (lbs)	1.8	0.9	0.5	0.5	0.5	0.5	1.4	1.8	1.8	1.8	



WebCal



LI99-1001

WebCal Software

WebCal PC software is a utility program that allows users to easily configure their EchoSonic II and EchoPod level transmitters, switches, and controllers. Download your free copy of WebCal at www.AutomationDirect.com, and connect your sensor through our Fob USB adapter (LI99-1001). Develop your configuration using pre-programmed function menus as the tank graphic and set point fields automatically change to match your configuration. Then, input your level set point values and click the Write to Unit button. Your configuration will be downloaded into the sensor and verified in less than a second. Last, click the Wiring Diagram button to open a wiring schematic of your configuration in PDF format. Print the document, disconnect the sensor and wire it per the schematic. It's that simple.

Configuration files can be named, saved, emailed, printed, opened and used again under revision control. The advanced feature page enables you to change the measurement signal, output filtering and invert relay states from NO to NC. As new software or firmware becomes available, they can be downloaded and updated through WebCal. Take control of your level process with WebCal software, and experience the future of level automation today.

WebCal Ultrasonic Level Sensor Software and USB Fob Adapter

Overview

WebCal PC software is a utility program that allows users to easily configure their EchoSonic II and EchoPod level transmitters, switches, and controllers. Download your free copy of WebCal at www.AutomationDirect.com, and connect your sensor through the Fob USB adapter (LI99-1001). Develop your configuration using pre-programmed function menus as the tank graphic and set point fields automatically change to match your configuration. Then, input your level set point values and click the Write to Unit button. Your configuration will be downloaded into the sensor and verified in less than a second. Last, click the Wiring Diagram button to open a wiring schematic of your configuration in PDF format. Print the document, disconnect the sensor and wire it per the schematic. It's that simple.



Configuration files can be named, saved, emailed, printed, opened and used again under revision control. The advanced feature page enables you to change the measurement signal, output filtering and invert relay states from NO to NC. As new software or firmware becomes available, they can be downloaded and updated through WebCal.

System Requirements

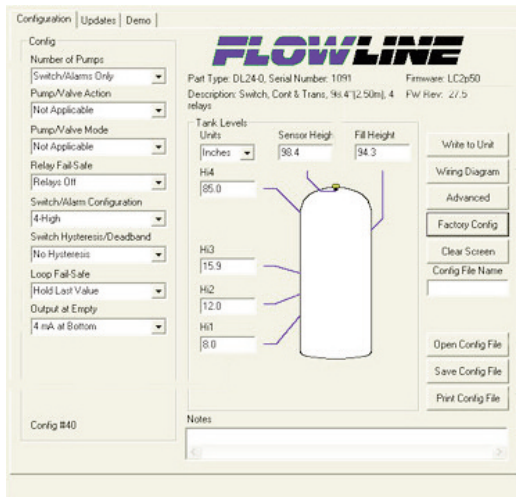
- Windows[®] 7 - 32 or 64 bit, Vista, or XP
- 1 USB[®] 2.0 Port
- 10 Mb hard disk space
- 256 Mb RAM

Features

- 169 configurations with pull-down menu selections
- Graphical interface lets you visualize your configuration
- Applicable level set point fields appear automatically
- Installs and tests configuration in less than a second
- Available PDF wiring diagram for each configuration
- Technical help menu with FAQs, tips and glossary
- Rapidly program sensors to the same configuration
- Save configuration files for future use or reference
- Print wiring diagrams and configuration text files
- Email configuration files to other remote users
- Made in the USA

WebCal Ultrasonic Level Sensor Software and USB Adapter					
Part No.	Item Photo	Description	Quantity	Weight (lbs)	Price
LI99-1001		Flowline Fob USB adapter, required for use with WebCal software to configure Flowline EchoPod and EchoSonic II ultrasonic level sensors.	1	0.1	<--->
WebCal		Configuration software CD for Flowline EchoPod and EchoSonic II ultrasonic level sensors (also available as a free download from the AutomationDirect Web site). Requires an LI99-1001 Fob USB adapter (purchased separately).	1	0.1	<--->

EchoPod Configuration



EchoSonic II Configuration

