

FLOWLINE

PodView®
Level Indicator
LI40 Series Quick Start



QS204260 Rev A
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Welcome to the PodView® Quick Start

The PodView® Quick Start provides basic mounting, setup and use instructions for getting the PodView® up and running quickly. If you have a non-standard installation or setup requirement that is not addressed here, please refer to the PodView® Manual or other support documentation located at www.flowline.com.

We Do Your Level Best

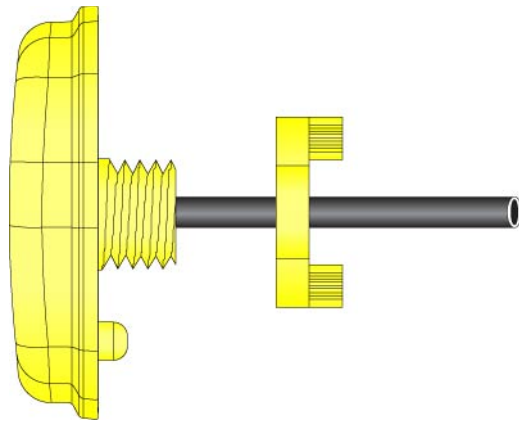
Thank you for purchasing PodView®. The indicator provides display and functional user interface with an EchoPod® ultrasonic sensor. This Quick Start includes everything you'll need to get the indicator up and running.

Included Components

PodView® comes with a 4' (1.2m) cable, locking nut and the Quick Start.



PodView® Front View



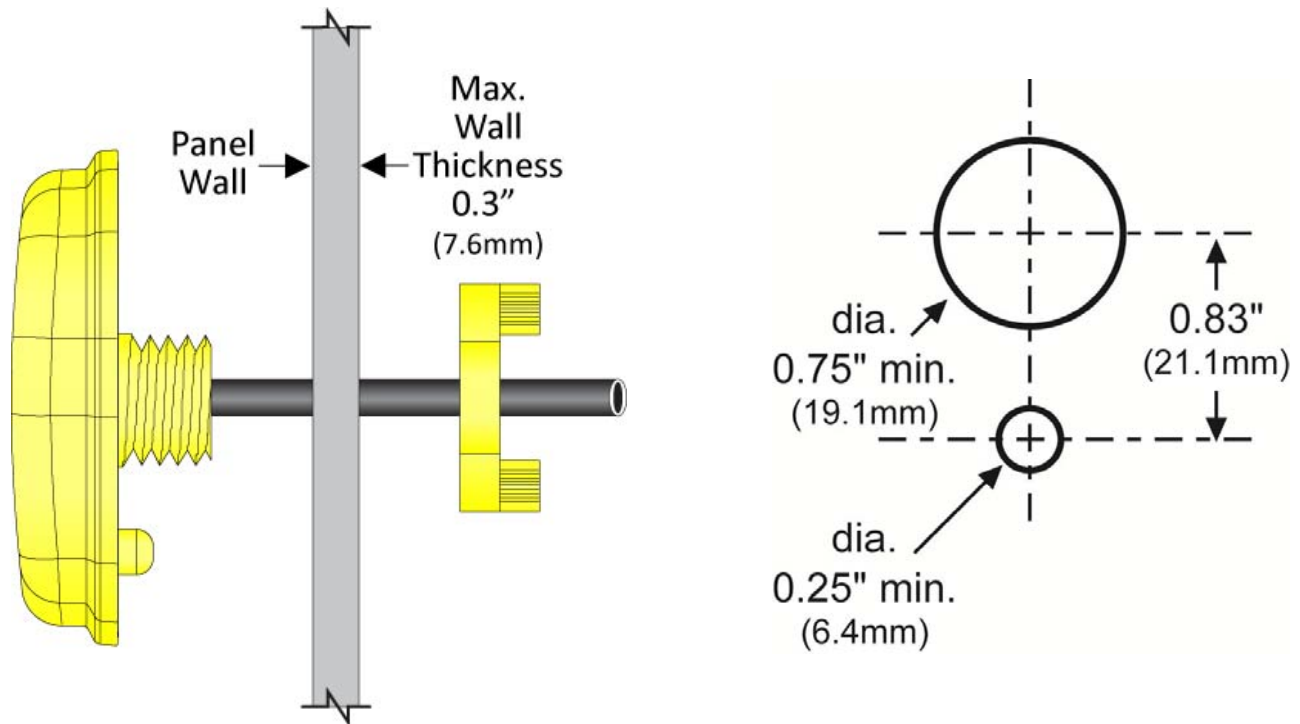
PodView® Side View

Mounting PodView®

PodView® is designed for typical panel mount installations, either located within an instrument panel or through the wall of a NEMA box enclosure.

Panel Mount:

The maximum cable distance between PodView® and EchoPod® is 15' (4.5m). Follow the below steps to install the indicator in a panel or NEMA box enclosure located near EchoPod®:



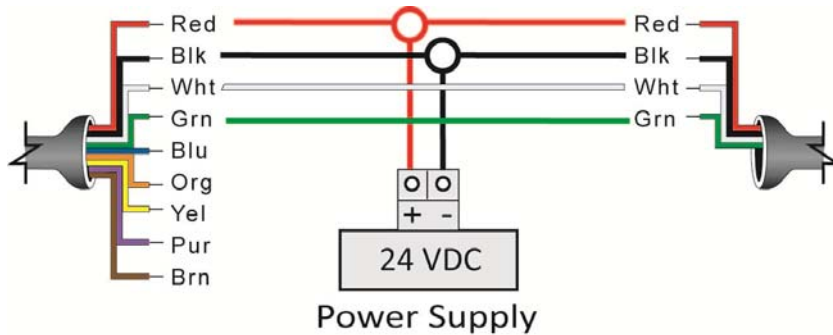
1. Drill (1) large 0.75" (19.1mm) diameter hole in the panel for the cable and nipple.
2. Drill (1) small 0.25" (6.4mm) diameter hole 0.83" (21.1mm) below the large hole that will prevent the installed indicator from rotating off center.
3. Run the indicator cable through the large top hole and locking nut (on the rear side of the panel).
4. Properly align the indicator with the flat gasket and holes on the panel. Then press the indicator in place against the panel.
5. Tighten the locking nut down over the nipple and route the cable for termination.

Wiring PodView® to EchoPod®

PodView® and EchoPod® require a 12 to 28 VDC power supply to operate. The maximum cable distance between PodView® and EchoPod® is 15' (4.5m). Follow the below steps to wire EchoPod® with EchoPod®:



EchoPod®



PodView®

***Wiring is identical for all series of EchoPod®. –
Use only the Red, Black, Green and White wires.***

1. Connect the Red and Black wires of both PodView® and EchoPod® to the 12-28 VDC power supply.
2. Connect the Green and White wires of PodView® to the corresponding Green and White wires of EchoPod®.
3. Isolate the Green and White wires from active power to prevent a short of the configuration circuit.

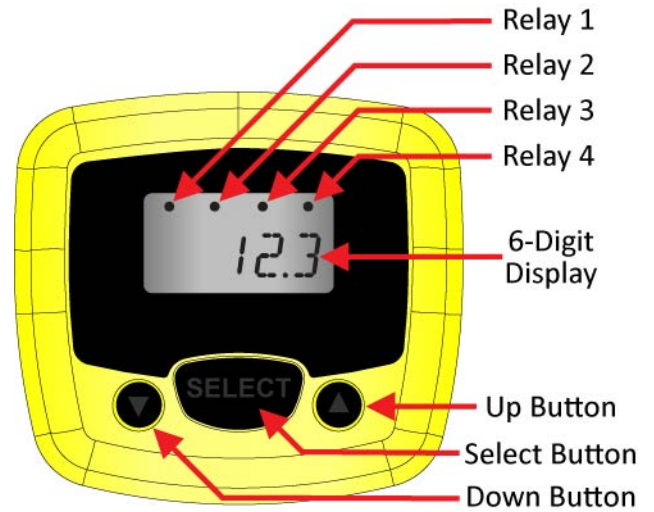
General Safety

- Where personal safety or significant property damage can occur due to a spill, the application must have a redundant backup safety system installed.
- Wiring should always be done by a licensed electrician.
- The supply voltage should never exceed 28 VDC.
- Protect the indicator from electrical spikes by isolating the power.
- Design a fail-safe system for possible indicator and/or power failure.
- Never use the indicator in environments classified as **Hazardous**.

Getting Around PodView®

PodView® features a 6-digit display with relay indicators and a three-button user interface. The indicator displays the measured value and relay status of the connected EchoPod® (if the sensor has relays and they are configured for use).

- **Relay 1-4** – Indicates when the sensor's relay is energized. **Note:** *Not all EchoPod® sensor models have relays.*
 - If the EchoPod® does not have relays, then the indicators will remain off.
- **6-digit Display** – Shows the liquid level in height (inches, cm, feet or meters) or volume of liquid (gallons or liters).
 - The selection of height vs. volume is set in WebCal® software.
- **Up/Down Buttons** – Used to increase or decrease a set point value.
- **Select Button** – Used to enter the Menu and accept values.

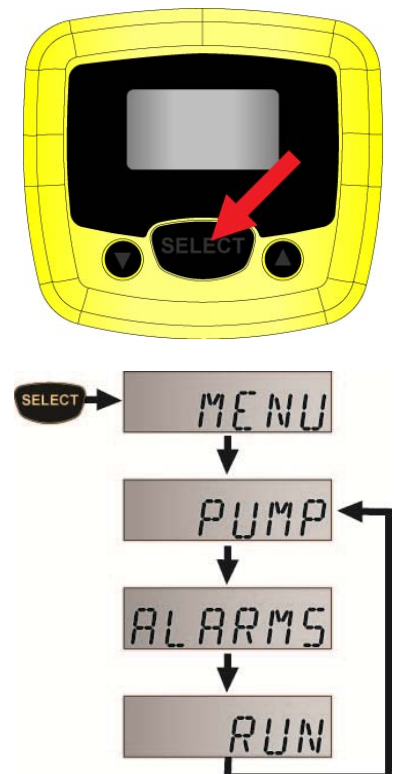


- **Note:** *To increase the scrolling speed of the display, hold down the SELECT button while simultaneously pressing the UP or DOWN button.*

Entering the MENU

If desired, users can change EchoPod® relay ALARM, VALVE or PUMP ON-OFF set points using PodView®. To enter the menu PodView® MENU functions, press and hold the SELECT button for 5 seconds. The MENU will then scroll between the configured PUMP, ALAMRS and RUN modes. **Note:** *If the relays are configured for PUMPS and ALARMS, then both will appear in the menu.* If the relays are configured for Alarms only, then PUMP will not appear. If the relays are configured for PUMPS only (also for valves), then ALARMS will not appear.

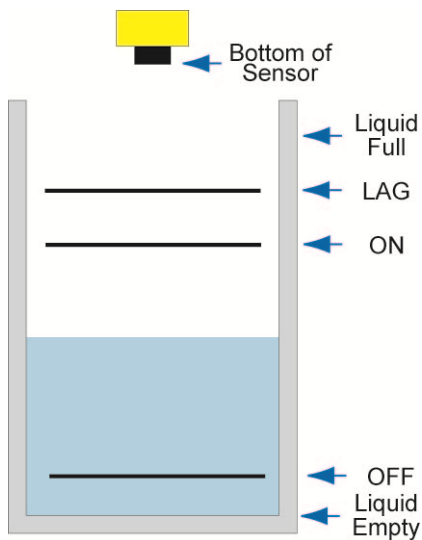
- To change a pump set point value, press **SELECT** when PUMP appears.
- To change an alarm set point value, press **SELECT** when ALARMS appears.
- To exit the menu and return to run mode, press **SELECT** when RUN appears.



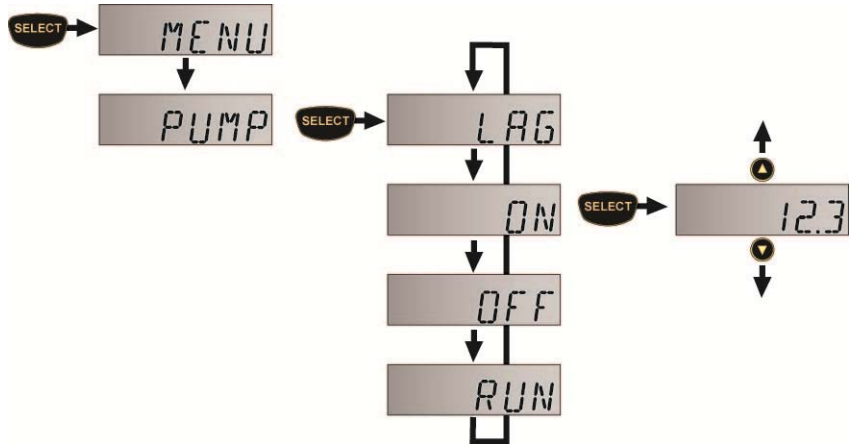
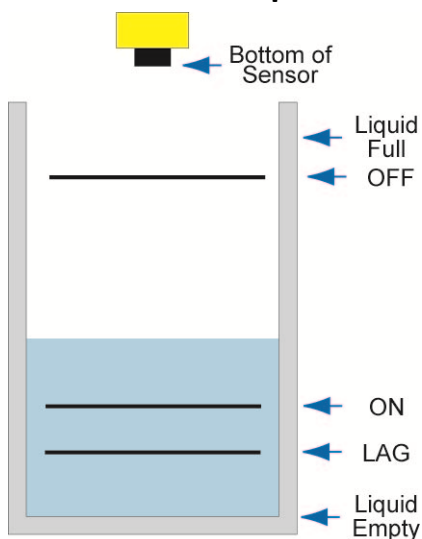
Changing a Pump Set Point

EchoPod® sensor models with relays have (1-4) channels. If after accessing the MENU, PUMP appears in the display, then at least (1) relay is configured for pump or valve control. Simplex pump control has (1) ON and (1) OFF setting. Duplex pump control (2-pumps) has a third additional LAG setting. **Note:** Prior to making any changes, we recommend that you write down all existing set point values. The example below highlights a duplex pump system in an automatic empty or automatic fill operation with (1) LAG, (1) ON and (1) OFF set point. Use the following steps to change your simplex or duplex pump control settings.

Automatic Empty Operation



Automatic Fill Operation



Steps to Change Pump Set Points

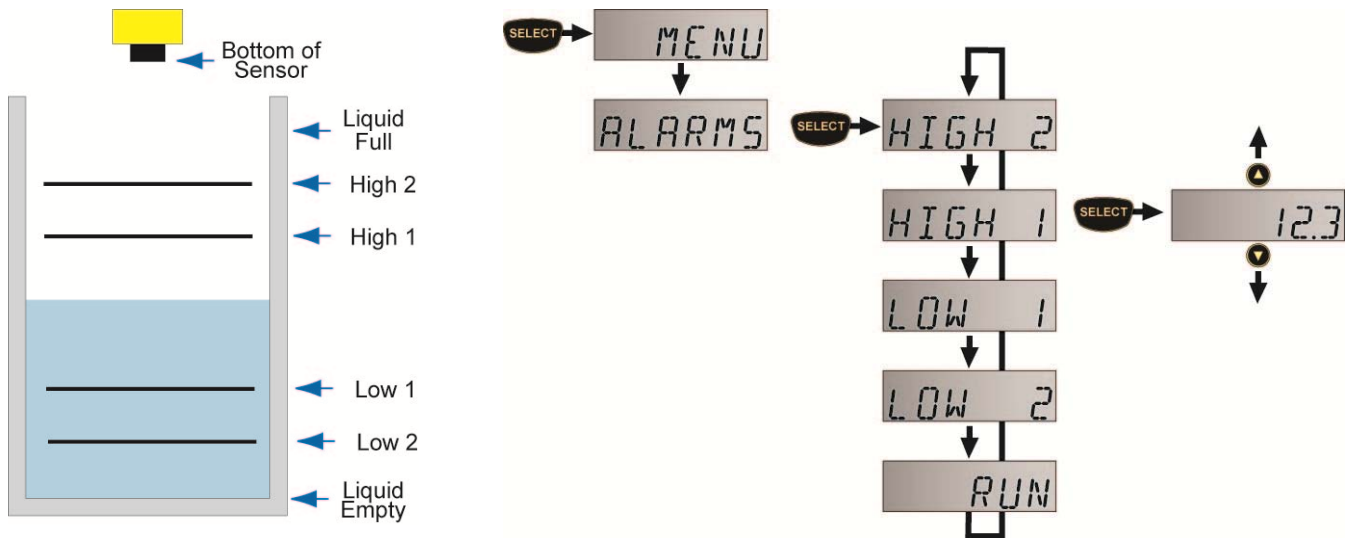
1. Hold SELECT for 5 seconds to enter the MENU.
2. Press SELECT when PUMP appears.
3. Press SELECT when the set point (ON, OFF, LAG) you want to change appears.
4. Press the UP and DOWN buttons to increase or decrease the set point to the desired value. To scroll faster, hold SELECT while pressing UP or DOWN.
5. To enter the set point, hold SELECT for 2 seconds.
6. To change another set point, press SELECT when the set point appears.
7. To exit the MENU, press SELECT when RUN appears.

Tech Tips

- Never place a relay set point (ON, OFF, LAG) at the liquid empty or liquid full position. You should have at least some distance or volume buffer separating them. For example, in a 500 gallon tank, the relay set points could be placed at ≥ 10 gallons or ≤ 490 gallons.

Changing an Alarm Set Point

EchoPod® sensor models with relays have (1-4) channels. If after accessing the MENU, ALARMS appears in the display, then at least (1) relay is configured as an alarm. The Alarm settings may be in any combination of LOW and/or HIGH alarms (4-HIGH, 1-LOW & 3-HIGH, 2-LOW & 2-HIGH, etc.). **Note:** Prior to making any changes, we recommend that you write down all existing set point values. The example below highlights a 2-LOW and 2-HIGH alarm operation with (4) set points. Use the following steps to change your alarm settings.



Steps to Change Alarm Set Points

1. Hold SELECT for 5 seconds to enter the MENU.
2. Press SELECT when ALARMS appears.
3. Press SELECT when the set point (HIGH2, HIGH 1, LOW1, LOW2) you want to change appears.
4. Press the UP and DOWN buttons to increase or decrease the set point to the desired value. To scroll faster, hold SELECT while pressing UP or DOWN.
5. To enter the set point, hold SELECT for 2 seconds.
6. To change another set point, press SELECT when the set point appears.
7. To exit the MENU, press SELECT when RUN appears.

Tech Tips

- Never place a relays set point (High 1, Low 1) at the liquid empty or liquid full position. You should have at least some distance or volume buffer separating them. For example, in a 500 gallon tank, the relay set points could be placed at ≥ 10 gallons or ≤ 490 gallons.

Warranty

Flowline warrants to the original purchaser of its products that such products will be free from defects in material and workmanship under normal use and service in accordance with instructions furnished by Flowline for a period of two years from the date of manufacture of such products. Flowline's obligation under this warranty is solely and exclusively limited to the repair or replacement, at Flowline's option, of the products or components, which Flowline's examination determines to its satisfaction to be defective in material or workmanship within the warranty period. Flowline must be notified pursuant to the instructions below of any claim under this warranty within thirty (30) days of any claimed lack of conformity of the product. Any product repaired under this warranty will be warranted only for the remainder of the original warranty period. Any product provided as a replacement under this warranty will be warranted for the full two years from the date of manufacture.

Returns

Products cannot be returned to Flowline without Flowline's prior authorization. To return a product that is thought to be defective, go to www.flowline.com, and submit a customer return (MRA) request form and follow the instructions therein. All warranty and non-warranty product returns to Flowline must be shipped prepaid and insured. Flowline will not be responsible for any products lost or damaged in shipment.

Limitations

This warranty does not apply to products which: 1) are beyond the warranty period or are products for which the original purchaser does not follow the warranty procedures outlined above; 2) have been subjected to electrical, mechanical or chemical damage due to improper, accidental or negligent use; 3) have been modified or altered; 4) anyone other than service personnel authorized by Flowline have attempted to repair; 5) have been involved in accidents or natural disasters; or 6) are damaged during return shipment to Flowline. Flowline reserves the right to unilaterally waive this warranty and dispose of any product returned to Flowline where: 1) there is evidence of a potentially hazardous material present with the product; or 2) the product has remained unclaimed at Flowline for more than 30 days after Flowline has dutifully requested disposition. This warranty contains the sole express warranty made by Flowline in connection with its products. ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. The remedies of repair or replacement as stated above are the exclusive remedies for the breach of this warranty. IN NO EVENT SHALL FLOWLINE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING PERSONAL OR REAL PROPERTY OR FOR INJURY TO ANY PERSON. THIS WARRANTY CONSTITUTES THE FINAL, COMPLETE AND EXCLUSIVE STATEMENT OF WARRANTY TERMS AND NO PERSON IS AUTHORIZED TO MAKE ANY OTHER WARRANTIES OR REPRESENTATIONS ON BEHALF OF FLOWLINE. This warranty will be interpreted pursuant to the laws of the State of California. If any portion of this warranty is held to be invalid or unenforceable for any reason, such finding will not invalidate any other provision of this warranty.

For complete product documentation, video training, and technical support, go to www.flowline.com.

For phone support, call 562-598-3015 from 8am to 5pm PST, Mon - Fri.

(Please make sure you have the Part and Serial number available.)