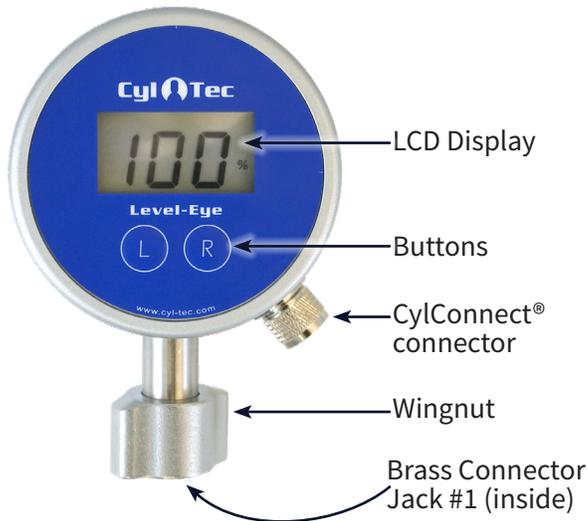
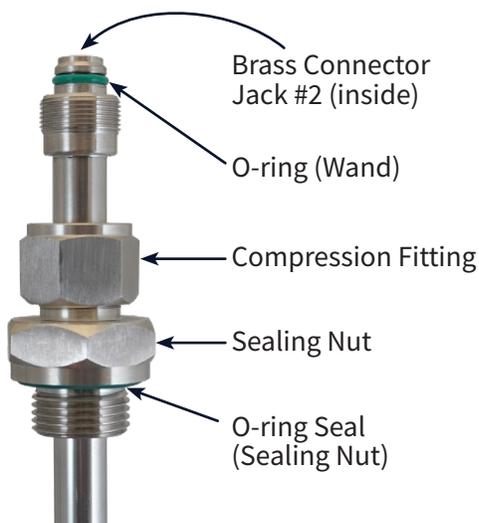


# LEVEL-EYE® USER MANUAL

## LEVEL-EYE® HEAD



## LEVEL-EYE® WAND



## SPARE PARTS

Sealing Nuts (including O-ring)	3/4" UNF (Cyl-Tec / TW tanks) 7/8" UNF (Chart tanks)
Level-Eye® Battery	CR2477

## LEVEL-EYE® INSTALLATION

The Level-Eye® installation should be performed before the filling process. Only install the Level-Eye® head & wand onto an empty tank.

- IMPORTANT!** Verify all the tank contents are removed and the tank is at atmospheric pressure.
- Verify the wand and sealing nut are the correct sizes for the targeted tank model.
- Verify that the O-ring Seal is in place on the sealing nut.
- Remove the old float rod from the knuckle on top of the tank.
- Remove the sealing nut from the Level-Eye wand, thread the nut into the tank knuckle, and wrench-tighten the nut. (*NOTE: DO NOT over-tighten or damage may occur.*)
- Guide the wand through the sealing nut and wrench-tighten the compression fitting. (*NOTE: DO NOT over-tighten or damage may occur.*)
- Remove the cover from the Level-Eye and insert the provided battery. Confirm that the LCD display turns on. (*NOTE: Because the head is not yet connected to the wand, a "no symbol" Ⓞ will appear on the right side of the LCD.*)
- Attach the cover onto the Level-Eye head. Hand-tighten firmly to fully engage waterproof seal.
- Ensure the O-ring is in place on top of the wand.
- Lift up the wingnut on the Level-Eye base to expose Brass Connector Jack #1.
- Push the Level-Eye head onto the wand firmly until both Brass Connection Jacks #1 & #2 are fully engaged with each other. (*NOTE: There should be no gap or obstruction with the connection.*)
- Hand-tighten the wingnut. (*NOTE: DO NOT wrench-tighten or irreversible damage may occur that is not under warranty!*)
- Ensure the "no symbol" Ⓞ is no longer displayed on the LCD screen. This confirms a proper electronic connection of the Level-Eye head with the wand.
- Proceed to low and high calibrations. (*NOTE: Level-Eye will NOT provide accurate readings until the entire low and high calibration process is complete. See reverse side for instructions.*)

## BATTERY PERCENTAGE

Level-Eye® is able to calculate the amount of battery power remaining and display it by percentages on the LCD screen at any time.

To check the battery level:

- Single press and release the "L" button to view the battery percentage remaining. *NOTE: The display will read "bxx%" to indicate the remaining battery life (i.e. b54%).*
- If battery level is less than 10%, a  symbol will appear.



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## LEVEL-EYE® CALIBRATION

Level-Eye® calibration is a two-step process of setting the liquid level range from an empty (low) level to a full (high) level for your specific tank size and model.

**IMPORTANT!** Calibration must be performed DURING the filling process to calibrate correctly.

### #1: LOW CALIBRATION

1. Add 5 lb. (2.25 kg) of liquid to the empty tank.
2. Wait 5-10 minutes to allow the wand to chill.
3. Enter Calibration Mode on Level-Eye®:
  - a. Hold the “L” and “R” buttons together for 5 seconds until the word “CAL” is displayed on the LCD, then release.
4. Perform Low Calibration:
  - a. As “CAL” is still displayed, hold down the “L” button for 5 seconds until “Lo” is displayed, then release.
  - b. Wait for the word “CLo” to display on the LCD screen, confirming the low calibration is complete.



### #2: HIGH CALIBRATION

1. Fill the tank to its full capacity.
2. Wait 5-10 minutes to allow the liquid in the tank to settle.
3. Enter Calibration Mode again on Level-Eye®:
  - a. Press the “L” and “R” buttons together for 5 seconds until the word “CAL” is displayed on the LCD, then release.
4. Perform High Calibration:
  - a. As “CAL” is still displayed, hold down the “R” button for 5 seconds until “Hi” is displayed, then release.
  - b. Wait for the word “CHi” to display on the LCD screen, confirming the high calibration is complete.
5. Level-Eye® should now display “100%.” Congratulations! You have a happy tank.



**NOTE:** If Level-Eye is ever reinstalled and used on another tank, or with a different liquefied gas, it **MUST** be re-calibrated to that tank and/or that specific gas to operate correctly.

## LEVEL-EYE® TROUBLESHOOTING

Problem	Cause	Action
LCD does not display anything	Replace the battery	<ol style="list-style-type: none"> <li>1. Remove back cover of Level-Eye to access battery.</li> <li>2. Replace old battery with new one.</li> <li>3. Replace back cover. Hand-tighten firmly to fully engage waterproof seal.</li> </ol>
LCD only displays “000%” or “100%”	Incorrect calibration	A new calibration sequence (both low and high) needs to be performed.
LCD continues to display “100%” after use	Vessel may have been overfilled	Level-Eye will not read below 100% until the liquid level dips below the calibration point. Monitor gauge regularly according to usage for any change.
LCD displays an “L” next to a number	Normal reading	“L” means “Level” and the number indicates what percentage of liquid gas is left in the tank.
“No Symbol”  is displaying	Head is not properly communicating with the wand	<p><b>NOTE: DO NOT perform a calibration while the No Symbol is present!</b></p> <p>Check the brass jack connectivity between the head and the wand:</p> <ol style="list-style-type: none"> <li>1. Loosen the wing nut at base of head and remove from wand.</li> <li>2. Check brass connection jacks on both parts for debris or damage.</li> <li>3. If connection is clear, wait 30 seconds and re-attach the head to the wand.</li> <li>4. If “No Symbol” is still present, please contact Cyl-Tec customer service.</li> </ol>
LCD is displaying inaccurate readings	Water damage or moisture	Check for water damage or moisture in the LCD screen or Level-Eye housing. If damage is severe, contact Cyl-Tec customer service - (888) 429-5832.