

LIQUID LEVEL PROBES

The function of a Liquid Level Probe is to measure and display refrigerant or oil level in a vessel.

Applications

Henry Technologies' Liquid Level Probes are designed for use in a variety of refrigeration and air conditioning applications.

The Liquid Level Probe uses either a 3/4" MPT or a 1 1/4"-12 Rotalock fitting to mount on liquid receivers or oil reservoirs and provide a 0-5V output of fluid level. Probes are custom ordered based on specific application and desired features.

The Liquid Level Probes are suitable for use with HCFC, HFC, A2L and CO₂ refrigerants along with their associated oils. Each Probe should be ordered based on the specific application to ensure proper calibration.

How it works

The Liquid Level Probe measures refrigerant or oil level by sensing a change in capacitance between the LLP probe rod and the receiver/reservoir wall. As the fluid changes in level, the output voltage varies between 0 and 5 volts.

For example, at the 0% set level the output would read 0V, at the 50% set level the output would read 2.5V, and at the 100% mark (typically set at 90% of vessel capacity) the output would read 5V.

All Liquid Level Probes come factory calibrated based on the order specification but are easily recalibrated in the field if required.

Main Features

- 3/4" MPT or 1 1/4"-12 Rotalock connection
- Continuous accurate measurement
- DIN cable connector
- 3.6m, 3-wire 20 AWG cable
- Options include:
 - LCD Display
 - 1-6V output
- For units, which may be subject to condensation, a sealed option is available. Note however, that the LCD display is not available with this option.

Note also that Liquid Level Probe units are not suitable for outdoor use.

Technical Specification

Allowable operating pressure = 0 to 90 barg
 Allowable ambient temperature = -40°C to +70°C
 Supply voltage = 12-32V DC
 Maximum load = up to 2 kΩ with less than a 5% shift

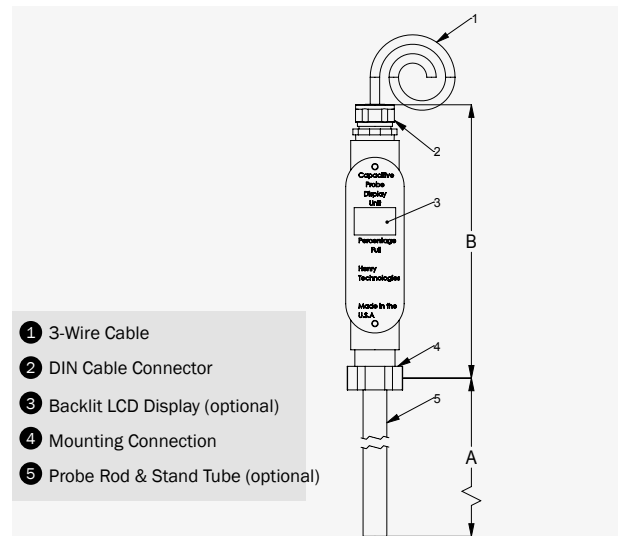
Materials of Construction

The probe rod is made from stainless steel and the stand tube is made from aluminium. The Rotalock connection is made from plated steel.



Installation - Main issues

1. Liquid Level Probes are factory calibrated based on order specifications.
2. Re-calibration procedure and wiring diagrams are included with the full instructions given in the Product Instruction Sheet, supplied with each unit.



Part No	Conn Size (inch)	Dimensions (mm)		Weight (kg)
		A	B	
LLP Series	3/4" MPT or 1 1/4"-12 Rotalock	254-1524	196.9	1.13