



**HENRY**  
TECHNOLOGIES

# Liquid and Oil Level Probes

Maximum Working Pressure of 90 Barg

3/4" MPT or 1-1/4"-12 Rotalock Connection

Continuous Accurate Measurement

1.8m, 3 Wire 20 AWG Cable

DIN Cable Connector

Suitable for use with HCFC, HFC and CO<sub>2</sub> refrigerants



[henrytech.co.uk](http://henrytech.co.uk)

**HENRY**

DESIGNED FOR PERFORMANCE

# LIQUID AND OIL 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 and CO<sub>2</sub> 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
- 1.8m, 3-wire 20 AWG cable
- Options include:
  - ° LCD Display
  - ° Stand tube (essential for horizontal vessels or vertical vessels with internal elements such as dip tubes or heater coils)
  - ° 0-5V or 1-6V output
  - ° 3.6m cable

## 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 k ohms with less than a 5% shift

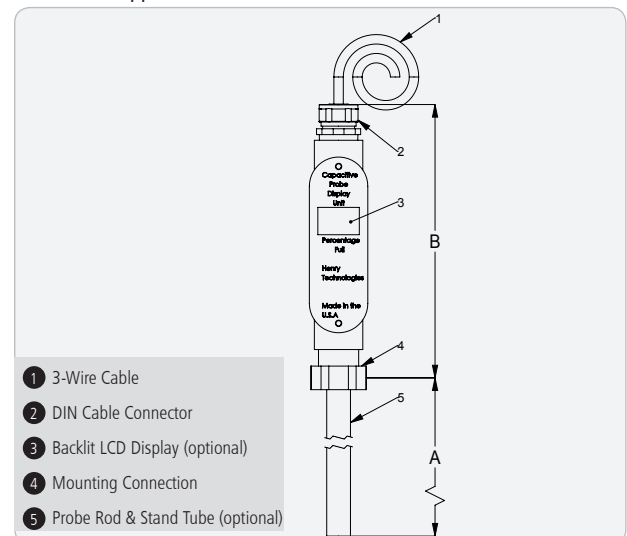
## Materials of Construction

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.



- 1 3-Wire Cable
- 2 DIN Cable Connector
- 3 Backlit LCD Display (optional)
- 4 Mounting Connection
- 5 Probe Rod & Stand Tube (optional)

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

The information contained in this brochure is correct at the time of publication.

Henry Technologies has a policy of continuous product development; we therefore reserve the right to change technical specifications without prior notice.

Extensive changes within our industry have seen products of Henry Technologies being used in a variety of new applications. We have a policy, where possible, to offer research and development assistance to our clients. We readily submit our products for assessment at the development stage, to enable our clients to ascertain product suitability for a given design application. It remains the responsibility of the system designer to ensure all products used in the system are suitable for the application.

For details of our warranty cover, please refer to our standard terms and conditions of sale. Copies are available on request.

Date of publication:- August 2015

## Henry Technologies

76 Mossland Road Hillington Park  
Glasgow G52 4XZ Scotland UK  
Tel. +44 141 882 4621  
Fax. +44 141 810 9199  
enquiries@henrytech.co.uk  
www.henrytech.co.uk



## COMMERCIAL REFRIGERATION DIVISION

**Henry Technologies LTD.** 76 Mossland Road  
Glasgow G52 4XZ  
SCOTLAND, UK  
+44 141 882 4621  
www.henrytech.co.uk

**Henry Technologies INC.** 701 S. Main Street  
Chatham, IL 62629  
USA  
+1 217 483 2406  
www.henrytech.com

**Henry Technologies PTY LTD.**  
25 Tullamarine Park Road  
Tullamarine, Melbourne  
Victoria 3043  
AUSTRALIA  
+61 3 9286 4222  
www.henrytech.com.au

**Henry Technologies PTE LTD.**  
Blk 203B Henderson Road  
12-11 Henderson Industrial Park  
159546  
SINGAPORE  
+65 6 295 0055  
www.henrytech.com

**Henry Technologies Shanghai**  
Tseng Chow Trade Building  
No. 1590 West Yan'an Road  
Changning District, Shanghai  
CHINA  
+86 21 6280 9530  
www.henrytech.com