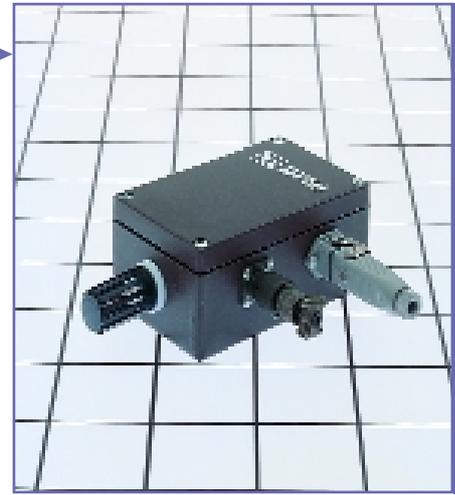


Wall Mounting Probes HPP5 HP50 HP150

Function: The HPP5, HP50 and HP150 are Heavy Duty wall mounting Relative Humidity and Temperature probes with military style connectors. The Relative Humidity and Temperature sensors are protected by a polypropylene cage as standard.

Application: The HPP5, HP50 and HP150 are ideally suited for measuring relative humidity and temperature in air conditioned rooms, test chambers, warehouses, refrigeration rooms and computer rooms amongst other applications.



HP Relative Humidity Range

SPECIFICATIONS

Please note that the following are typical standard output ranges. We will manufacture instruments to cater for other output ranges within certain limitations. Please contact our internal sales department for further clarification.

HPP5 (DC Powered)

Supply
12 Volt DC $\pm 25\%$, 10mA max

OUTPUTS:

Relative Humidity
0 to 1mA into 5K ohms max representing 0 to 100% RH

Temperature
3 wire PT100 to BS1904

NB Connector and 2 metres of lead supplied with the probe

HP50 (Mains Powered)

Supply
100 to 120 Volt AC, or
200 to 240 Volt AC 50/60Hz

Power Required
3 Watts maximum

OUTPUTS:

Relative Humidity
4 to 20mA into 1K ohms max representing 0 to 100% RH

Temperature
4 to 20mA into 1K ohms max representing 0 to 100°C

NB Each probe comes with mating connectors for supply and signal fittings

HP150 (Loop Powered)

Supply
15 to 48 Volt DC loop power supply. The probe takes 10 volts from the loop

OUTPUT:

Relative Humidity
4 to 20mA representing 0 to 100% RH

Temperature
No temperature sensor fitted to the HP150

NB Each probe comes with mating connector

GENERAL:

RH Measuring Range
0 to 98% RH

Temperature Measuring Range
0 to 50°C

Accuracy
Relative Humidity: $< \pm 2.0\%$ for 0 to 95% RH
Temperature: $< \pm 0.3^\circ\text{C}$

Operating Temperature Range
Sensor: -10 to $+70^\circ\text{C}$
Electronics: -10 to $+70^\circ\text{C}$

Storage Temperature Range
 -20 to $+70^\circ\text{C}$

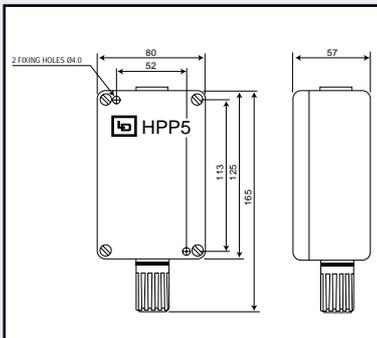
Operating/Storage Humidity Range
0 to 95% RH non-condensing

Weight

HPP5	0.5 Kg
HP50	0.7 Kg
HP150	0.3 Kg

MECHANICAL DETAILS

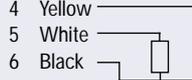
HPP5



TERMINATION DETAILS

HPP5

- Terminal
- 1 Red Common Supply/ Output +ve
 - 2 Blue Supply -ve
 - 3 Green Output -ve
 - 4 Yellow
 - 5 White
 - 6 Black



HP50

- Terminal
- 1 Live
 - 2 Neutral
 - y Earth

- A RH output +ve
 - B RH output -ve
 - C Temperature output -ve
 - D Temperature output +ve
- (Note: Terminals B & C are commoned within the instrument)

HP150

- Terminal
- 1 Supply +ve
 - 2 Not used
 - 3 R_{LOAD} to Supply -ve

ORDERING DETAILS

- (a) Specify probe type required; i.e. HP50
- (b) Specify power supply, i.e. 120 Volt 50 Hz
- (c) Specify if alternative output ranging required



LEE-DICKENS LTD

Desborough, Kettering, Northants NN14 2QW U.K.
Tel: (01536) 760156 Fax (01536) 762552

10.10