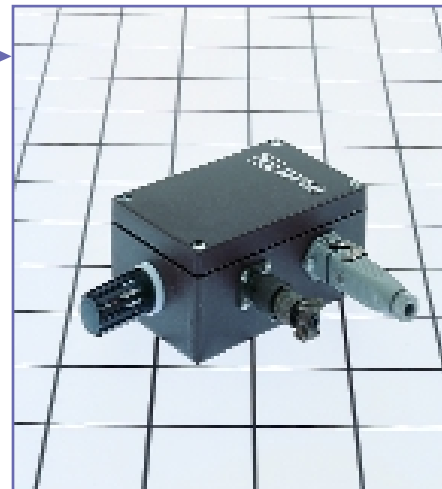


# Wall Mounting Probes HPP5 HP50 HP150

**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  $+70^\circ\text{C}$

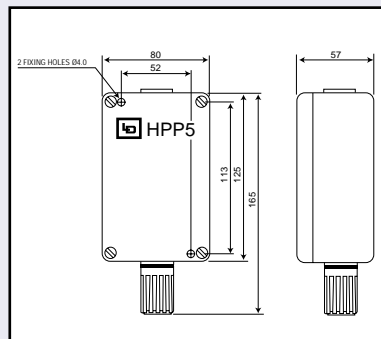
**Operating/Storage Humidity Range**  
0 to 95% RH non-condensing

### Weight

HPP5	0.5 Kg
HP50	0.7 Kg
HP150	0.3 Kg

## MECHANICAL DETAILS

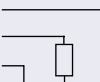
### HPP5



## 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<sub>LOAD</sub> to Supply -ve

## ORDERING DETAILS

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



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