

## RHS-P Room Humidity Sensor – IOM



Model RHS-P

### Applications & Features

- RH series are designed for indoor environment relative humidity (RH%) measurement and control
- High performance digital RH% sensor and digital technology applied, ensure accurate measurement, fast response & good long term stability
- Multiple outputs selection,
- Wide working temperature range
- LCD & function keys can set parameters and calibrate output, as a stand-alone controller

### Specifications

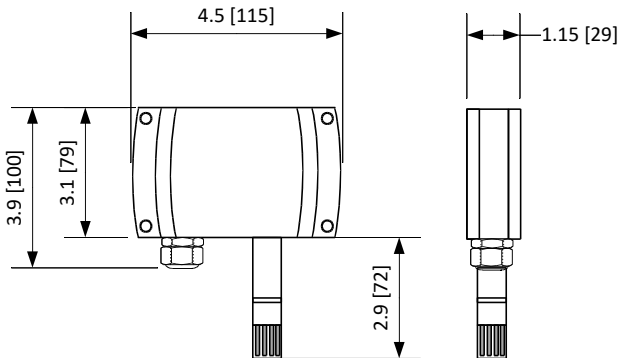
- **Sensor:** Digital polymer RH% sensor
- **Range:** 0-100%Rh
- **Output:** 4-20mA
- **RH% Accuracy:**  $\leq 2\%RH$  (at 25°C, 20 to 80%RH)
- **RH% Hysteresis:**  $\leq +/-1\%RH$
- **Response time:** :  $\leq 10s$  (25°C no air movement)
- **RH% Drift:**  $\leq +/-0.5\%RH$
- **Temperature range:** 0-100°C
- **Temp. Accuracy:**  $\leq 0.4\%RH$  (5 to 60°C)
- **Voltage:** 15 to 28Vac or 15 to 36VDC
- **Ambient conditions:** -40 to 85°C, 0 to 95%RH (Non condensing)
- **Storage Temperature:** -40 to 85°C
- **Housing:** ABS
- **Ingress Protection:** IP30

### Model RHS-D

- **Display:** 4 digits LCD with units and Backlight

### Dimensions

All dimensions in inch [mm]

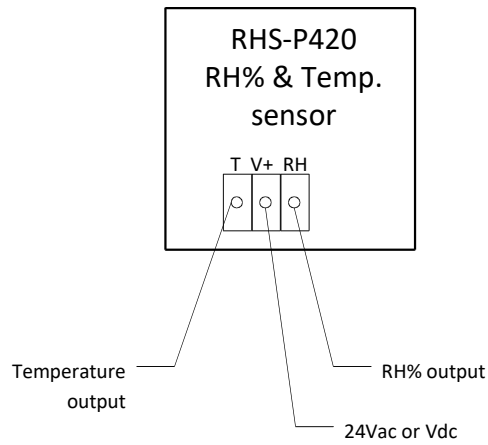


### Installation – Wall mounting

1. Carefully plan the location of the RHS. This one should not be located next to the source of humidification.
2. RHS is a wall mount control that can be installed on an electrical box or directly to the wall.
3. Insert a small screw driver onto the snap-in tab located on the top of the RHS, push down the tab and pull the front cover.
4. Install the base of the RHS on the wall or electrical box by using the 2 supplied screws.
5. Proceed to the electrical wiring as per wiring diagram.
6. Re-install the front cover.

## Electrical connection

**CAUTION:** disconnect power supply before to proceed to electrical connection  
It is recommended to power the RHS with a dedicated transformer or power supply source.  
Connect RHS as described in below wiring diagram.



*Wiring diagram*



Information contained in this manual is subject to change without notice.

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