

# **RHS Room Humidity Sensor – IOM**



Model RHS

### **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,
- Optional relay for alarm or ON/OFF control
- Wide working temperature range
- LCD & function keys can set parameters and calibrate output, as a stand-alone controller



Model RHS-D

#### **Specifications**

- Sensor: Digital polymer RH% sensor
- Range: 0-100%Rh
- Output: 0-10VDC optional RS485/Modbus
- Optional relay output: 2xSPST, 3A/250VAC or 30VDC
- Accuracy: ≤3%RH (at 25°C, 20 to 80%RH)
- **Hysteresis**: ≤+/-1%RH
- Response time: : ≤10s (25°C no air movement)
- **Drift**: ≤+/-0.5%RH
- 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



Installation steps

## Installation steps

- 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 a 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.



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