

## **Relative Humidity and Temperature Sensor RHTOx**

#### **Description:**

This type of humidity and temperature sensor uses state of the art single chip multi-sensor technology. The sensing element is a polymer sensing chip with built in electronics to give accurate signal and fast response. This product has been designed with state of the art electronics, and built in the UK for EC Products to assure excellent reliability and quality.



#### Features:

- High noise immunity for stability.
- Selectable analogue output.
- Selectable temperature range.
- ♦ 24Vac/dc supply

To perform an accurate comparison between a transmitter

output and a portable reference, it is essential that the two

probes are held adjacent for a minimum of 30 minutes in a

when site measurements are taken incorrectly. "Slings" or other mechanical hygrometers should not be used as

instruments and transmitters to disagree by 10% RH or more

stable RH environment. It is not uncommon for test

Direct Thermistor Option

#### **Technical Specification**

**Humidity** Accuracy: +/-3% or +/-2% at 25°C

Response time: < 8 Seconds Long term Stability < 2% RH per

Year.

Hysteresis: +/- 1% RH Output: 0-100%RH

Temperature ASIC Temperature Sensor

Accuracy: +/-0.5 °C at 25°C Response Time < 8 Seconds Default Selectable Temperature

Setting 0-100°C

Housing Material: Flame Retardant ABS/PC

Protection IP65

Ambient Range: -20°C to +50°C Supply: -24Vac/dc

**Termination** 0.5 to 1.5mm cable

## Installation

reference.

Commissioning

- Select a location preferably on a North facing wall or a wall out of direct sun light.
- Mount with Probe pointing down then secure with 2 screws.
- Connect the wiring to the terminal block as per the wiring diagram, the terminal block can be removed if necessary ensuring it is replaced the correct way round.
- 4. Ensure the supply is within specification.
- 5. It is recommended that screened cable is used with the screen earthed.
- After power up allow 5 minutes for stabilisation.
- 7. Allow 30 Minutes before commissioning.

#### Order Codes:

RHTO3 Outside RH & Temperature Sensor 3% RHTO2 Outside RH & Temperature Sensor 2%

For Direct Thermistor option specify BMS or thermistor type when ordering

#### **EC Products Limited**

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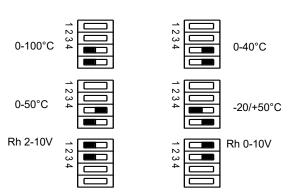


### **Relative Humidity and Temperature Sensor RHTOx**

## Jumper Function: 6 Way Header Temper

6 Way Header Temperature 4-20mA (I) 0-10V (V) RH 4-20mA (I) 0-10V (V)

- J1 RH 0-10V/2-10V
- J2 Temperature 0-10V/2-10V
- J3 Temperature Range
- J4 Temperature Range



Note: for 4-20mA operation SW1 & 2 must be set to 2-10V

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