

Space Humidity and Temperature Sensor

HT-S Space Humidity and Temperature Sensor



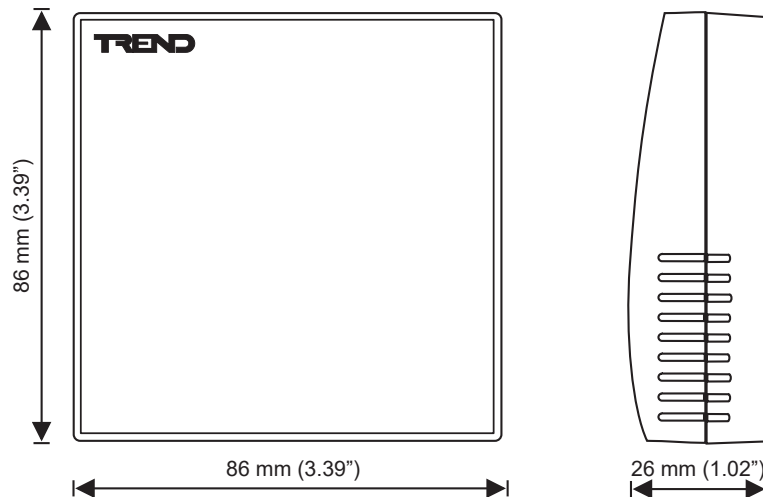
Description

Wall mounted relative humidity measurement combined with temperature measurement offers excellent linearity and stability over a wide humidity range. A certificated version is also available (HT-S-CC).

Features

- Precalibrated for ease of commissioning
- Operates over 10 to 95 %RH non-condensing
- $\pm 3\%$ accuracy
- 2 part connectors for ease of installation

Physical



FUNCTIONALITY

The HT/S humidity and temperature sensors can be used for a wide range of HVAC applications, operating over a 0 to 95%RH (non-condensing) range.

HT-S

Humidity output: 0 to 10 volt signal corresponding to 0 to 100%RH with a 3% humidity measurement accuracy.

Temperature output: 0 to 10 volt signal corresponding to 0 to 40°C.

INPUT CHANNELS AND SENSOR SCALING

Appropriate sensor type scaling must be applied.

INSTALLATION

The HT-S sensors have 2 parts (front panel and a backplate) for surface mounting on a flat surface or wall box. The backplate is designed to be surface mounted on surface conduit, mini trunking, wall box or end box (BESA), or directly onto a wall or other flat surface.

Note: The sensor should not be mounted on a surface which could be washed or splashed.

The installation involves:

- | | |
|--------------------------------------|---------------------------------|
| choose location | wire sensor cables |
| separate front panel and backplate | push front panel onto backplate |
| remove cable knockouts (if required) | configure controller inputs |
| mount backplate | configure IQ sensor modules |
| | test sensor |

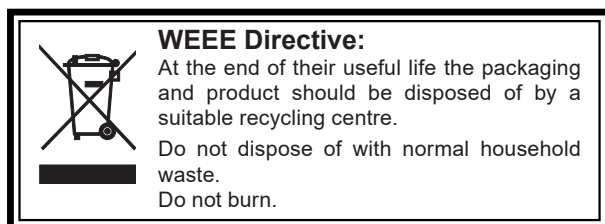
Full installation details are given in the HT-S Installation Instructions (TG200990).

ORDER CODES

HT-S
HT-S-CC

Space humidity and temperature sensor.
Space humidity and temperature sensor with calibration certificate

DISPOSAL



SPECIFICATIONS

ELECTRICAL

Supply Voltage :15 to 30 Vdc. See calculation on page 2 if connected to a non-IQ device
 Operating Temperature:-20°C to +60°C (-4 °F to +140 °F).

Humidity

Operating range :10 to 95 %RH non-condensing
 Accuracy (typical) :±3% (20 to 80 %RH @25 °C), otherwise ±5 %RH
 Response time (typical) :t63% < 3min.
 Output signal :0 to 10V (0 to 100 %RH)

Temperature

Measurement range :0°C to +40°C (32°F to 104°F)
 Accuracy (typical) :±3 % (@25 °C),
 Response time (typical) :t63% < 3min.
 Output signal :0 to 10V (0 to 40 °C)

MECHANICAL

Dimensions :86 mm (3.39") x 86 mm (3.39") x 26 mm (1.02")
 Enclosure Material :Flame retardant (V0) ABS
 Connectors :Two part rising cage terminals for 0.2 to 2.5 mm² (24 to 16 AWG) cable
 Weight :86 gm (3.03 oz)

ENVIRONMENTAL

CE Compatibility :EN61000-6-1, EN61000-6-3
 Working ambient limits
 temperature :-5 °C (23 °F) to +55 °C (131 °F)
 humidity :0 to 100 %RH non-condensing
 Storage Temperature :-25 °C (-13 °F) to +60 °C (140 °F)
 Protection :IP20 (NEMA1)

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