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# HOBO S-THC-M002 12-bit Temperature/Relative Humidity Smart Sensor (2m cable)

#### **Product Images**





### **Short Description**

The HOBO 12-bit Temperature/Relative Humidity Smart Sensor is designed to work with all HOBO data loggers that accept Smart Sensors. All sensor parameters are stored inside the Smart Sensor, which automatically communicates configuration data information to the logger without any programming, calibration, or extensive user setup.

#### **Description**

## **Key Features**

- Smart Sensor
- Works with all loggers that accept Smart Sensor inputs
- Automatically communicates configuration data to the logger.

Also available in a wireless model for use with the HOBOnet Field Monitoring System.

## **Additional Information**

Explanation  Explanation	For the full specifications for this product, please see the product manual found under the Resources tab.  Measurement Range Temp: -40°C to 75°C (-40°F to 167°F) RH: 0-100% RH at -40° to 75°C (-40° to 167°F); exposure to conditions below -20°C (-4°F) or above 95% RH may temporarily increase the maximum RH sensor error by an additional 1%  Accuracy Temp: 20.25°C from -40° to 0°C (±0.45°F from -40° to 32°F); ±0.20°C from 0° to 70°C (±0.36°F from 32° to 158°F); ±0.25°C from 70° to 75°C (±0.45°F from 150° to 167°F) RH: ±2.5% from 10% to 90% RH (typical), to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical Resolution Temp: 0.02°C RH: 0.01% RH Bits Per Sample Temp: 16 RH: 16 Drift Temp: < 0.01°C (0.18°F) per year RH: < 1% per year typical Response Time (typical, to 90% of change) Temp: Without solar radiation shield: 3 minutes, 45 seconds in air moving 1 m/s; With RS3-B solar radiation shield: 6 minutes, 30 seconds in air moving 1 m/s are adiation shield: 15 seconds in air moving 1 m/s; With RS3-B solar radiation shield: 100% RH intermittent condensing environments. For best results, protect the Temp/RH sensor from sunlight and direct splashing by mounting it inside a protective enclosure, such as a solar radiation shield. Housing: PVC cable jacket with ASA styrene polymer RH sensor cap; modified hydrophobic polyethersulfone membrane Sensor dimensions: 45.97 x 11.43 x 10.16 mm (1.81 x 0.45 x 0.40 inches) Weight: 110 g (3.88 oz) Number of data channels**: 2 Measurement averaging option: No Cable lengths available: 2.5 m (8.2 ft) Length of Smart Sensor network cable: 0.5 m (1.6 ft)  * The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).  * The UKCA Mark identifies this product as complying with all relevant directives in the UK Declaration of Conformity.
Ideal For	Professional, Agronomy
Brand	Onset HOBO
Housing	Cable
Typical applications	Environmental (Outdoor), Field Research, Weather Monitoring
Measurements	Dew Point, Humidity, Temperature
Compatible With	RX3000 Remote Monitoring Station Data Logger, RX2100 MicroRX Station, RX2100-WL MicroRX Water Level Station, U30-NRC U30 USB Weather Station Data Logger, H21-USB USB Micro Station Data Logger, H22-001 Energy Data Logger