HOBO S-THC-M008 12-bit Temperature/Relative Humidity Smart Sensor (8m cable) PDF



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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

Country of Manufacture	United States
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: ±0.25°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 158° 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: 46 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 RH: Without solar radiation shield: 15 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 6 minutes, 30 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 6 minutes, 30 seconds in air moving 1 m/s RH: Without solar radiation shield: 15 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 6 minutes, 30 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar radiation shield: 10 seconds in air moving 1 m/s; with RS3-B solar r
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