



HOBO S-TMB-M002 12-Bit Temperature Smart Sensor (2m cable)

Product Images



Short Description

This 12-bit Temperature Smart Sensor provides $< \pm 0.2^{\circ} \text{C}$ total accuracy ($< \pm 0.36^{\circ} \text{F}$) and resolution of $< \pm 0.03^{\circ} \text{C}$ ($< \pm 0.054^{\circ} \text{F}$) over a range of 0°C to 50°C (32° to 122°F). Its full measurement range is -40°C to 100°C (-40° to 212°F). A selectable measurement-averaging feature improves accuracy further. The sensor also features a stainless steel sensor tip and robust cable rated for immersion in water up to 50°C for up to 1 year. This model has a cable length of 2m.

Description

The 12-bit Temperature Smart Sensor provides $< \pm 0.2^{\circ}\text{C}$ total accuracy ($< \pm 0.36^{\circ}\text{F}$) and resolution of $< \pm 0.03^{\circ}\text{C}$ ($< \pm 0.054^{\circ}\text{F}$) over the range of from 0°C to 50°C (32° to 122°F). The full measurement range is -40° to 100°C (-40° to 212°F). A selectable measurement-averaging feature further improves accuracy. Reliable service is assured by a stainless steel sensor tip and robust cable rated for immersion in water up to 50°C for up to 1 year. This model has a cable length of 2m.

Also available in a [wireless model](#) for use with the [HOBOnet Field Monitoring System](#).


S-TMB-M002 Key Features

- Measurement range of -40° to 100°C (-40° to 212°F)
- Stainless steel sensor tip
- Sensor and cable rated for immersion in water or soil up to 50°C for up to 1 year

For use in Indoor, Outdoor and Underwater environments

Supports the following measurements: Temperature, Water Temperature

Additional Information

Explanation	<p>To see the full specifications for this product, please see the product manual found under the Resources tab.</p> <p>Measurement range: -40° to 100°C (-40° to 212°F) sensor tip*</p> <p>Accuracy: < ±0.2°C from 0° to 50°C (< ±0.36°F from 32° to 122°F)</p> <p>Resolution: < ±0.03°C from 0° to 50°C (< ±0.054°F from 32° to 122°F)</p> <p>Drift: < ±0.1°C (0.18°F) per year</p> <p>Response time (to 90% of change): < 3 minutes typical to 90% in 1 m/sec air flow < 30 seconds typical to 90% in stirred water</p> <p>Measurement averaging option: Yes</p> <p>Environmental rating: Waterproof sensor tip and cable rated for 1-year immersion in water up to 50°C</p> <p>Housing: Stainless steel sensor tip</p> <p>Dimensions: 5.1 x 33 mm (0.2 x 1.3 inches)</p> <p>Approximate weight: 100 g (1 oz), 310 g (4 oz), 880 g (12 oz) — varies with cable length</p> <p>Cable lengths: 2.0 m (6.6 ft)</p> <p>Number of data channels: 1</p> <p>Length of Smart Sensor network cable: 0.5 m (1.6 ft)</p> <p>* Sensor tip and cable immersion in fresh water up to 50°C (122°F) for one year. Cable electronics are rated for up to 75°C (167°F). Radiation Shield strongly recommended for use in sunlight (part # RS3)</p> <p> - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).</p>
Brand	HOBO
Housing	Cable
Measurements	Temperature, Water Temperature
Compatible With	U14-002 External Temperature/RH LCD Data Logger, U30-NRC USB Weather Station Data Logger, H21-USB Micro Station Data Logger, RX3000 Remote Monitoring Station Data Logger, U30-NRC-SYS-C, H22-001 Energy Data Logger