



S-TMB-M002 Sensor

12-Bit Temperature (2m cable) Smart Sensor

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.

Supported Measurements:

Temperature and Water Temperature

Key Advantages:

- 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



S-TMB-M002 Sensor Specifications

Measurement range: -40° to 100°C (-40° to 212°F) sensor tip*

Accuracy: < ±0.2°C from 0° to 50°C (< ±0.36°F from 32° to 122°F)

Resolution: < ±0.03°C from 0° to 50°C (< ±0.054°F from 32° to 122°F)

Drift: < ±0.1°C (0.18°F) per year

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

Measurement averaging option: Yes

Environmental rating: Waterproof sensor tip and cable rated for 1-year immersion in water up to 50°C

Housing: Stainless steel sensor tip

Dimensions: 5.1 x 33 mm (0.2 x 1.3 inches)

Approximate weight: 100 g (1 oz), 310 g (4 oz), 880 g (12 oz) — varies with cable length

Cable lengths: 2.0 m (6.6 ft)

Number of data channels: 1

Length of Smart Sensor network cable: 0.5 m (1.6 ft)

* 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)

CE - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)