



## S-TMB-M017 Sensor

### 12-Bit Temperature (17 m 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  $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  ( $32^{\circ}\text{C}$  to  $122^{\circ}\text{F}$ ). The full measurement range is  $-40^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  ( $-40^{\circ}\text{C}$  to  $212^{\circ}\text{F}$ ). 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  $50^{\circ}\text{C}$  for up to 1 year. This model has a cable length of 17m.

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  $-40^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  ( $-40^{\circ}\text{C}$  to  $212^{\circ}\text{F}$ )
- Stainless steel sensor tip
- Sensor and cable rated for immersion in water or soil up to  $50^{\circ}\text{C}$  for up to 1 year



## S-TMB-M017 Sensor Specifications

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

**Accuracy:**  $< \pm 0.2^{\circ}\text{C}$  from 0° to 50°C ( $< \pm 0.36^{\circ}\text{F}$  from 32° to 122°F)

**Resolution:**  $< \pm 0.03^{\circ}\text{C}$  from 0° to 50°C ( $< \pm 0.054^{\circ}\text{F}$  from 32° to 122°F)

**Drift:**  $< \pm 0.1^{\circ}\text{C}$  (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 length:** 17 m (55.8 ft)

**Number of data channels:** 1

**Length of Smart Sensor network cable:** 0.5m (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 # M-RSA)

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

## Contact Us

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