



HOBO S-TMB-M017 12-Bit Temperature Smart Sensor (17m cable)

Product Images



Short 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° 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. Available in cable lengths of 2m, 6m and 17m.

This model has a cable length of 17m.

Description

S-TMB-M017 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.


Environment:

The S-TMB-M017 Sensor is for use in Indoor , Outdoor and Underwater environments

Measurements:

The S-TMB-M017 Sensor supports the following measurements: Temperature, Water Temperature
Also available in a [wireless model](#) for use with the [HOBOnet Field Monitoring System](#).

Additional Information

Explanation	The country of origin for this product is the United States. To see the full specifications for this product, please see our product manual found under the Resources tab.	
	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)	<2 minutes typical in 2 m/sec (4.5 mph) moving air flow <1 minute typical in stirred water bath
	Environmental Operating Ranges	Smart sensor adapter: -40° to 75°C (-40°F to 167°F); weatherproof, IP67 Stainless-steel sensor tip and cable jacket: Waterproof over the range of -40° to 50°C (-40°F to 122°F) for 1 year; operation up to 100°C (212°F) in air
	Housings	Stainless steel waterproof sensor tip; weatherproof polyamide housing for smart sensor adapter
	Dimensions	Temperature probe: 5.0 x 26 mm (0.2 x 1.0 inches)
	Weight	2 meter: 0.09 g (3.3 oz) 6 meter: 0.14 g (5.2 oz) 17 meter: 0.30 g (11.2 oz)
	Bits per Sample	12
	Number of Data Channels***	1
	Measurement Averaging Option	Yes
	Cable Lengths Available	2 m (6.6 ft) S-TMB-M002 6 m (19.7 ft) S-TMB-M006 17 m (55.8 ft) S-TMB-M017
	Length of Smart Sensor Network Cable	0.5 m (1.6 ft) for all models
		The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).
	*Radiation Shield strongly recommended for use in sunlight (listed in Compatible Items) **The drift specification of <0.1°C (0.18°F) per year may be exceeded when using the probe continuously in water >50°C (122°F). ***A single HOBO station can accommodate 15 data channels and up to 100 m (328 ft) of smart sensor cable (the digital communications portion of the sensor cables).	
Ideal For	Professional	
Brand	Onset HOBO	
Housing	Cable	
Typical applications	Environmental (Outdoor), Field Research	
Measurements	Temperature, Water Temperature	
Compatible With	H22-001 Energy Data Logger, U14-002 External Temperature/RH LCD Data Logger, U30-NRC USB Weather Station Data Logger, H21-USB Micro Station Data Logger, RX2100, RX2100WL & RX3000 Remote Monitoring Station Data Logger, U30-NRC-SYS-C	