



HOBO TMC1-HD Wide-range Temperature Sensor (1ft cable)

Product Images



Short Description

Temperature sensor for use with HOBO external channel data loggers monitoring air, water, or soil temperatures.

Description

Temperature sensor for use in air, soil, or water; compatible with the HOBO UX120-006M, MX1100 series, ZW series, and U-Series data loggers.

- Accuracy and resolution vary according to attached logger model
- Measurement range is -40° to 100°C (-40° to 212°F) in air or water
- **Response time in air:** 2 min. typical to 90% in air moving 1 m/sec (2.2 mph)
- **Response time in stirred water:** 30 sec. typical to 90%

- Sensor is attached to a 0.3 m (1 ft) cable.

Additional Information

Country of Manufacture	United States
Explanation	<p>Measurement range: -40° to 50°C (-40° to 122°F) in water; -40° to 100°C (-40° to 212°F) in air</p> <p>Accuracy:</p> <p>w/U12: ±0.25°C from 0° to 50°C (±0.45°F from 32° to 122°F), insert probe 2.3 cm (0.9 inches) minimum;</p> <p>w/ZW: ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F), insert probe 2.3 cm (0.9 inches) minimum;</p> <p>w/UX120-006M, MX1104, and MX1105: ±0.15°C from 0° to 70°C (±0.27°F from 32° to 158°F), insert probe 2.3 cm (0.9 inches) minimum;</p> <p>Resolution:</p> <p>w/U12: 0.03° at 20°C (0.05° at 68°F);</p> <p>w/ZW: 0.02°C at 25°C (0.04°F at 77°F);</p> <p>w/UX120-006M, MX1104, and MX1105: 0.002° at 25°C (0.003° at 77°F);</p> <p>Drift: <0.1°C (<0.2°F) per year</p> <p>Response time in air: 2 min. typical to 90% in air moving 1 m/sec (2.2 mph)</p> <p>Response time in stirred water: 30 sec. typical to 90%.</p> <p>Operating range: Sensor tip and cable immersion in fresh water up to +50°C (122°F) for 1 year</p> <p>Housing: Copper-plated sensor tip</p> <p>Dimensions: 5.1 x 33 mm (0.2 x 1.3 inches)</p> <p>Weight: 34 g (1.1 oz)</p>
Brand	Onset HOBO
Housing	Cable
Measurements	Temperature, Water Temperature
Compatible With	U12, ZW, UX120, MX1104, MX1105