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

## Product Images

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## Short Description

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

## Description

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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  $-40^{\circ}$  to  $100^{\circ}\text{C}$  ( $-40^{\circ}$  to  $212^{\circ}\text{F}$ ) 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><b>Measurement range:</b> -40° to 50°C (-40° to 122°F) in water; -40° to 100°C (-40° to 212°F) in air</p> <p><b>Accuracy:</b></p> <ul style="list-style-type: none"> <li>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;</li> <li>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;</li> <li>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;</li> </ul> <p><b>Resolution:</b></p> <ul style="list-style-type: none"> <li>w/U12: 0.03° at 20°C (0.05° at 68°F);</li> <li>w/ZW: 0.02°C at 25°C (0.04°F at 77°F);</li> <li>w/UX120-006M, MX1104, and MX1105: 0.002° at 25°C (0.003° at 77°F);</li> </ul> <p><b>Drift:</b> &lt;0.1°C (&lt;0.2°F) per year</p> <p><b>Response time in air:</b> 2 min. typical to 90% in air moving 1 m/sec (2.2 mph)</p> <p><b>Response time in stirred water:</b> 30 sec. typical to 90%.</p> <p><b>Operating range:</b> Sensor tip and cable immersion in fresh water up to +50°C (122°F) for 1 year</p> <p><b>Housing:</b> Copper-plated sensor tip</p> <p><b>Dimensions:</b> 5.1 x 33 mm (0.2 x 1.3 inches)</p> <p><b>Weight:</b> 34 g (1.1 oz)</p>
Brand	Onset HOBO
Housing	Cable
Measurements	Temperature, Water Temperature
Compatible With	U12, ZW, UX120, MX1104, MX1105