



TMC6-HC Sensor

Stainless Steel Temperature Probe (6' cable) Sensor

A food-grade stainless-steel temperature probe with pointed tip for use with HOBO U-Series, UX120-006M external-channel data loggers or ZW series wireless datanodes. Accuracy and resolution vary according with attached logger model. Measurement range is -40° to 100°C (-40° to 212°F) in air or water; response time is 3 minutes typical to 90% in air moving 1m/sec (2.2mph); response time in stirred water is 15 seconds typical. Sensor is attached to a 1.8m (6ft) cable.



Supported Measurements:

Temperature

Key Advantages:

- Plug directly into the external input jacks of U12, UX120, or ZW Family loggers to expand the range of measurement options and applications

TMC6-HC Sensor Specifications

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

Accuracy:

w/U12: $\pm 0.25^{\circ}\text{C}$ from 0° to 50°C ($\pm 0.45^{\circ}\text{F}$ from 32° to 122°F), insert probe 5.08 cm (2 inches) minimum;

w/ZW: $\pm 0.21^{\circ}\text{C}$ from 0° to 50°C ($\pm 0.38^{\circ}\text{F}$ from 32° to 122°F), insert probe 5.08 cm (2 inches) minimum;

w/UX120-006M: $\pm 0.15^{\circ}\text{C}$ from 0° to 70°C ($\pm 0.27^{\circ}\text{F}$ from 32° to 158°F), insert probe 5.08 cm (2 inches) minimum;

Resolution:

w/U12: 0.03° at 20°C (0.05° at 68°F);

w/ZW: 0.02°C at 25°C (0.04°F at 77°F);

w/UX120-006M: 0.002° at 25°C (0.003° at 77°F);

Drift: $< 0.1^{\circ}\text{C}$ ($< 0.2^{\circ}\text{F}$) per year

Response time in air: 3 min. typical to 90% in air moving 1 m/sec (2.2 mph)

Response time in stirred water: 15 sec. typical to 90%.

Probe dimensions: 102mm (4 in.) food-grade stainless steel probe with pointed tip; 3.2mm $\pm 0.25\text{mm}$ (0.12 inches ± 0.01) diameter

Cable length: 1.8m (6 feet)

Note: The stainless steel probe is waterproof, but the handle is not intended for prolonged use in water or moist environments, especially those with temperatures greater than 30°C (86°F). For more details contact Onset Computer Corporation or an Onset authorized dealer.