



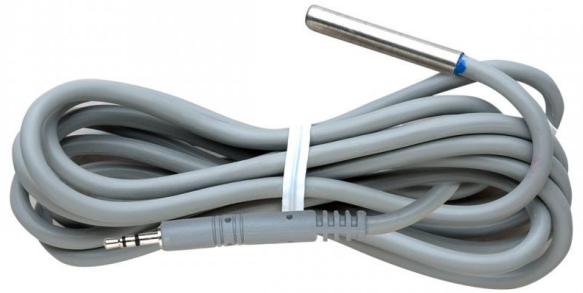
## TMCx-HD

### Air/Water/Soil Temperature Sensor

The TMC temperature probe, for use in air, soil, or water, works with the HOBO UX120-006M, MX1100, ZW series, or U-Series data loggers.

#### Product Numbers:

TMC1-HD  
TMC6-HD  
TMC20-HD  
TMC50-HD



#### Key Advantages:

- Accuracy and resolution vary according to attached logger model
- Measurement range is  $-40^{\circ}$  to  $100^{\circ}\text{C}$  ( $-40^{\circ}$  to  $212^{\circ}\text{F}$ )
- **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), 1.8 m (6 ft), 6.1 m (20 ft), or 15.2 m (50 ft) cable

## HOBO TMCx-HD Sensor Specifications

**Measurement range:** -40° to 50°C (-40° to 122°F) in water; -40° to 100°C (-40° to 212°F) in air

**Accuracy:**

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;

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;

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;

**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, MX1104, and MX1105: 0.002° at 25°C (0.003° at 77°F);

**Drift:** <0.1°C (<0.2°F) per year

**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%.

**Operating range:** Sensor tip and cable immersion in fresh water up to +50°C (122°F) for 1 year

**Housing:** Copper-plated sensor tip

**Dimensions:** 5.1 x 33 mm (0.2 x 1.3 inches)

**Weight:** 34 g (1.1 oz)

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

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