

## TMCx-HD Water/Soil Temperature Sensor

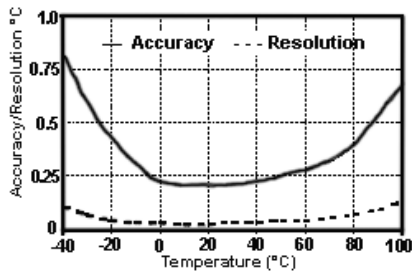
For use with HOBO® U12 series data loggers and ZW data nodes

### Sensor enclosed:

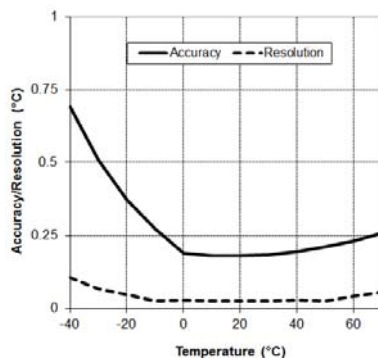
- Part No. TMC1-HD (1 ft.)       Part No. TMC6-HD (6 ft.)  
 Part No TMC20-HD (20 ft.)     Part No. TMC50-HD (50 ft.)

### Specifications

Measurement Range	-40° to 50°C (-40° to 122°F) in water; -40° to 100°C (-40° to 212°F) in air
Accuracy with 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; see Plot A
Accuracy with ZW	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F); see Plot B
Resolution with U12	0.03° at 20°C (0.05° at 68°F); see Plot A
Resolution with ZW	0.02°C at 25°C (0.04°F at 77°F); see Plot B
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	0.9 x 5.8 cm (0.38 x 2.30 inches)
Weight	34 g (1.1 oz)



Plot A



Plot B

### Mounting Considerations:

- Mount the sensor where there is good air circulation for measuring air temperature.
- Mount the sensor off the mounting surface so temperature measurements are not affected by the surface itself.

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