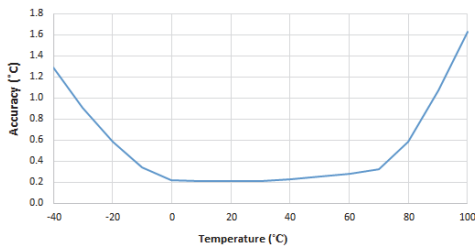


# TMCx-HE Temperature Sensor

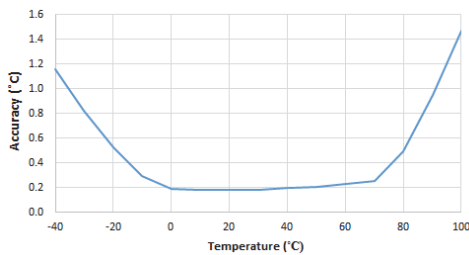
For use with HOBO® U12, UX120-006M, MX1104, and MX1105 data loggers and ZW data nodes

## Specifications

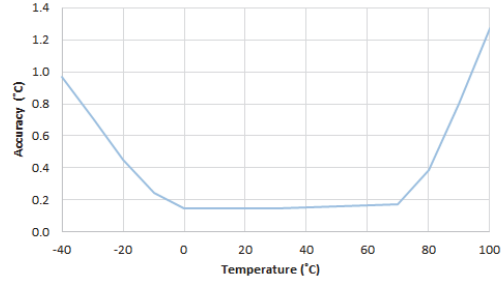
Measurement Range	-40° to 100°C (-40° to 212°F)
Accuracy with U12	±0.25°C from 0° to 50°C (±0.45°F from 32° to 122°F), insert probe 2.3 cm (0.9 inches) minimum; see Plot A
Accuracy with ZW	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F), insert probe 2.3 cm (0.9 inches) minimum; see Plot B
Accuracy with UX120-006M, MX1104, and MX1105	±0.15°C from 0° to 50°C (±0.27°F from 32° to 122°F), insert probe 2.3 cm (0.9 inches) minimum; see Plot C
Resolution with U12	0.03° at 20°C (0.05° at 68°F)
Resolution with ZW	0.02°C at 25°C (0.04°F at 77°F)
Resolution with 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 on a pipe	Typically 2 times faster than the TMCX-HD. Typically less than 1 minute to 90%.
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: U12 Accuracy\*



Plot B: ZW Accuracy\*



Plot C: UX120-006M, MX1104, and MX1105 Accuracy\*

\*Accuracy shown in plots outside the 0 to 50°C range is typical.

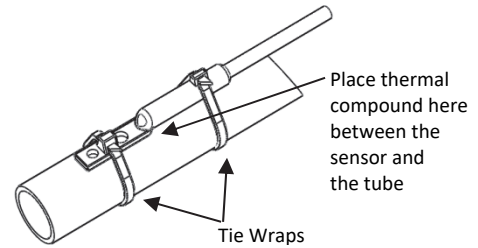
## Items Included:

- 2 tie wraps
- 1 #6 screw
- Thermal compound

## Mounting the Sensor

Use a small amount of the enclosed thermal compound between the flat part of the sensor tip and the surface where the sensor is being deployed to enhance the contact between the two.

Sensor mounted on pipe using two tie wraps:



Sensor mounted on wall using #6 screw:

