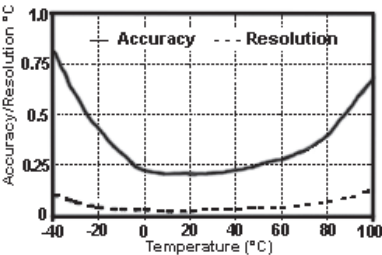


TMCx-HE Temperature Sensor

For use with HOBO® U12 series 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); 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 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)



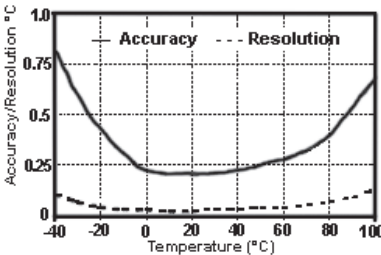
Plot A

TMCx-HE Temperature Sensor

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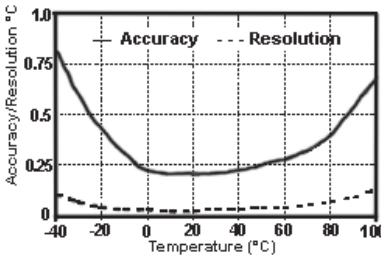
Plot A

TMCx-HE Temperature Sensor

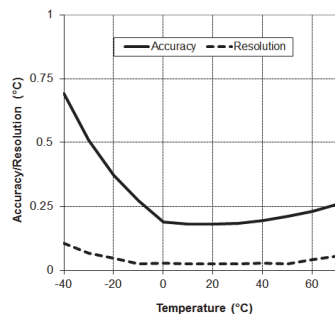
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Plot A



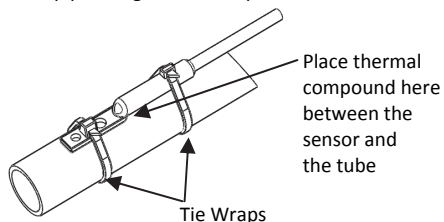
Plot B

Items Included: 2 tie wraps, 1 #6 screw, thermal compound

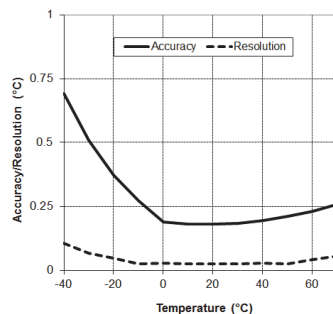
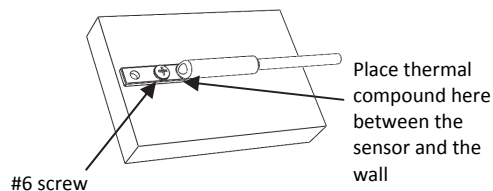
Mounting the Sensor

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:



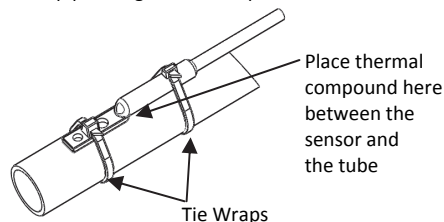
Plot B

Items Included: 2 tie wraps, 1 #6 screw, thermal compound

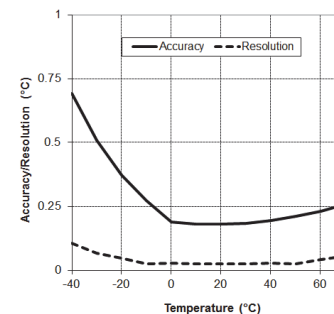
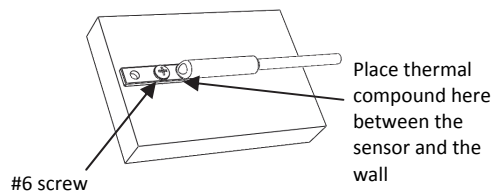
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Sensor mounted on pipe using two tie wraps:



Sensor mounted on wall using #6 screw:



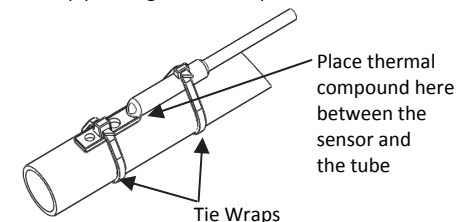
Plot B

Items Included: 2 tie wraps, 1 #6 screw, thermal compound

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Sensor mounted on pipe using two tie wraps:



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