

ABS Enclosure



Other Enclosure Styles

Metal Enclosure



Round ABS
Enclosure



Strap-on Temperature Sensor

Designed for monitoring temperatures on pipes where an immersion sensor can not be used. It comes with a 10" quick-open worm drive stainless steel strap for fast and easy installation.

Installation

Mount the unit's copper plate so that it is in direct contact with the pipe to measure the temperature of the pipe using the worm drive strap. For best results, thermal compound should be used between the plate and pipe to improve heat transfer.

Specifications

Operating	-20 to 105 °C (-4 to 221 °F)
Cable Type	PVC insulated, parallel bonded
Wiring Connections	Pig Tail (2 or 3 wire)
Enclosures	ABS, Metal or Round ABS
Sensor Types	100 Ω, 1K PT, 1K Nickel RTD's, 1801 K, 3K, 10K (type 2 & 3) 20K & 100K Thermistors

Typical Wire Resistance Values

When using low resistance sensors (i.e. 100 ohm RTD), long wire runs can add significant error to the readings. Use the following chart to determine errors due to wire resistance or consider using a 1000 ohm sensor or a transmitter for better accuracy. Locate the type of wire being used. Multiply the total length of the wire (distance from the controller to the sensor and back) by the number found in the following chart for total resistance

GAUGE WIRE TYPE	18 AWG	22 AWG	24 AWG
STRANDED (OHMS/ FOOT)	5.85 mΩ	14.75 mΩ	23.29 mΩ
SOLID (OHMS/FOOT)	6.4 mΩ	15.85 mΩ	25.72 mΩ

Wiring & Color codes

All two-wire sensors are polarity insensitive. The three-wire sensors have the following color code:

<u>Connection</u>	<u>Strap-on Wire Color</u>
EXCitation	RED
SENse	GREEN
NEGative	BLACK

To connect a three-wire sensor as a two-wire, tie the EXCitation and SENSE lines together.

Dual sensor units will have one sensor on the RED and BLACK wires and the second sensor on the GREEN and WHITE wires.

