



GREYSTONE ENERGY SYSTEMS INC

STRAP-ON TEMPERATURE SENSOR TSRP Series

The single point strap-on temperature sensor utilizes a precision sensor encapsulated in a 6 mm (0.236") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). Standard wire length is 1.5 m (5'). All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration.



SPECIFICATION:

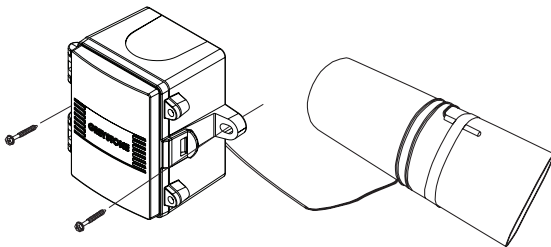
- Sensor Type.....Various Thermistors or RTD
- Sensor Accuracy.....**Thermistors:** $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$) @ 25°C (77°F)
Platinum RTD's: $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F)
Nickel RTD's: $\pm 0.4^{\circ}\text{C}$ ($\pm 0.72^{\circ}\text{F}$) @ 0°C (32°F)
- Probe Sensing Range.....-20 to 105°C (-4 to 221°F)
- Ambient Operating Range....-40 to 50°C (-40 to 122°F)
- Wire Material.....PVC insulated, parallel bonded, 22 AWG
- Wire Length.....1.524 m (5')
- Probe Material.....304 Series Stainless Steel
- Probe Diameter.....6 mm (0.236")
- Enclosure.....**A:** ABS - UL94-V0, IP65 (NEMA4X)
C: Same as A, includes terminal block
E: Same as C, includes thread adapter (1/2" NPT to M16), cable gland fitting
- Termination.....**A:** pigtail, 2 or 3 wire
C & E: terminal block, 2 or 3 wire
- Country of Origin.....Canada

TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from pipe. Position probe directly on the pipe and secure using a pipe clamp. For added security, make 1 to 3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If applicable, the pipe insulation can be re-applied to the pipe over the probe.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TSRP	Remote Probe Strap-on Temperature Sensor

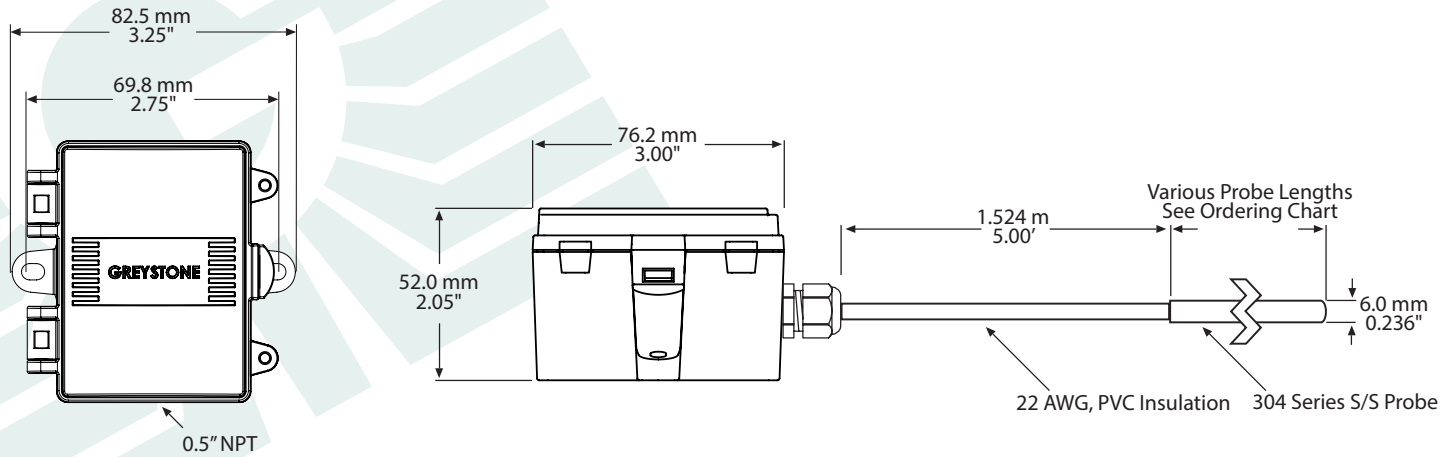
CODE	Enclosure
A	ABS, with hinged & gasketed cover
C	Same as A, with terminal block
E	Same as C, with thread adapter & cable gland fitting

CODE	Sensor
02	100 Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire
05	1801 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
06	3000 Ω, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
07	10,000 Ω, Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
08	2.252K Ω, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel, Class B, DIN 43760
14	10,000 Ω, Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ c/w 11K shunt resistor
20	20,000 Ω, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
24	10,000 Ω, Type 2, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
59	10,000 Ω @ 25°C , $\pm 1\%$, B = 3435 $\pm 1\%$ (25/85)

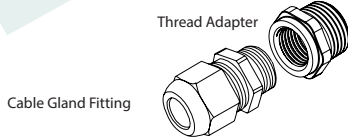
CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

DIMENSIONS:



Included with E style enclosure



GREYSTONE

ENERGY SYSTEMS INC

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RoHS
COMPLIANT



Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM