



# GREYSTONE ENERGY SYSTEMS INC

## HIGH ACCURACY STRAP-ON TEMPERATURE SENSOR HATSRP Series

The high accuracy 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..... **RTD Class A:**  $\pm 0.15^{\circ}\text{C}$  @  $0^{\circ}\text{C}$   
**RTD 1/3 DIN:**  $\pm 0.1^{\circ}\text{C}$  @  $0^{\circ}\text{C}$   
**RTD 1/10 DIN:**  $\pm 0.03^{\circ}\text{C}$  @  $0^{\circ}\text{C}$   
**NTC Thermistor Type 39:**  $\pm 0.05^{\circ}\text{C}$ , 0 to  $70^{\circ}\text{C}$   
**NTC Thermistor Type 55:**  $\pm 0.03^{\circ}\text{C}$ , 0 to  $70^{\circ}\text{C}$   
**NTC Thermistor Type 40/46:**  $\pm 0.1^{\circ}\text{C}$ , 0 to  $70^{\circ}\text{C}$

Temperature Range.....  $-20$  to  $105^{\circ}\text{C}$  ( $-4$  to  $221^{\circ}\text{F}$ )  
 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..... ABS - UL94-V0, IP65 (NEMA4X)  
 C - includes terminal block  
 E - includes thread adapter (1/2" NPT to M16), cable gland fitting, and terminal block

Termination..... A - pigtail, 2 or 3 wire  
 C & E - terminal block, 2 or 3 wire

Country of Origin..... Canada

### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATSRP	High Accuracy 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
18	1000 $\Omega$ Platinum, IEC 751, 385 Alpha, thin film, Class A
48	1000 $\Omega$ Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
22	1000 $\Omega$ , Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN
41	1000 $\Omega$ , Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A
49	1000 $\Omega$ , Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
50	1000 $\Omega$ Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN
39	10,000 $\Omega$ Type 2, NTC Thermistor, $\pm 0.05^{\circ}\text{C}$
55	10,000 $\Omega$ , Type 2, NTC Thermistor, $\pm 0.03^{\circ}\text{C}$
40	10,000 $\Omega$ , Type 3, NTC Thermistor, $\pm 0.1^{\circ}\text{C}$
46	20,000 $\Omega$ , NTC Thermistor, $\pm 0.1^{\circ}\text{C}$

CODE	Probe Length
A	50 mm (2")
B	100 mm (4")

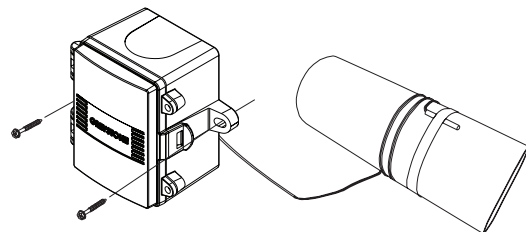
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

### TYPICAL INSTALLATION:

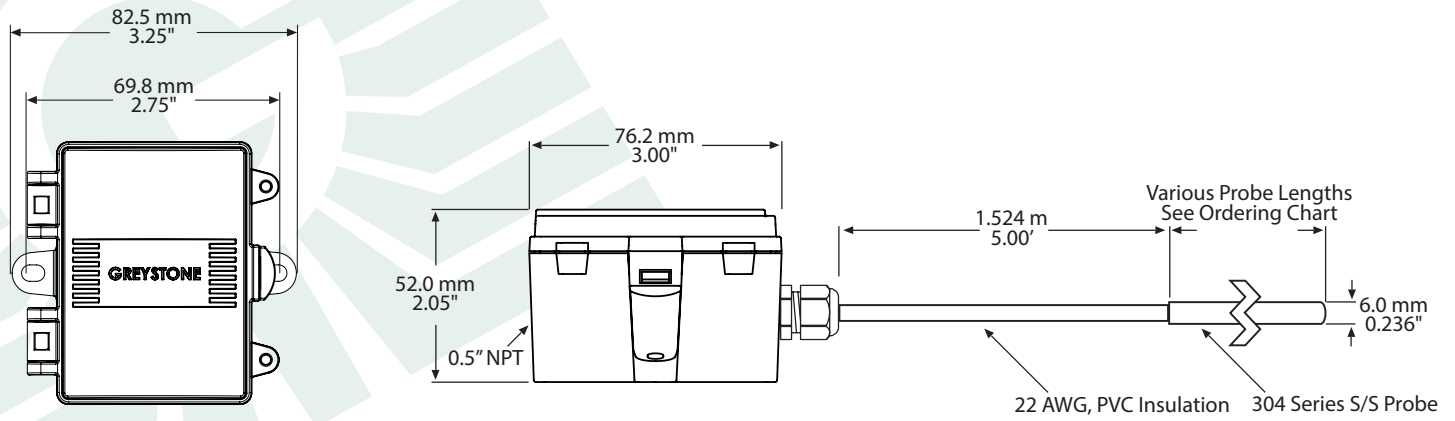
For complete installation and wiring details, please refer to the product installation instructions.

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

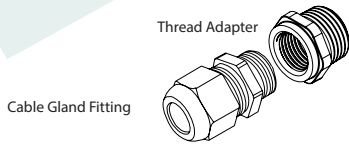
Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from pipe. Position probe directly on the pipe and secure using a pipe clamp. For added security, make 1 to 3 loops of the sensor cable around the pipe and feed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



## DIMENSIONS:



Included with E style enclosure



Cable Gland Fitting

Thread Adapter



# GREYSTONE

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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