



HIGH ACCURACY REMOTE STRAP-ON TEMPERATURE TRANSMITTER HATXRP Series

The HATXRP single point strap-on temperature transmitter incorporates a high accuracy platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges. (See ordering chart).



SPECIFICATION:

Sensor.....100 ohm Platinum RTD or
1000 ohm Platinum RTD

Accuracy**RTD Class A:** $\pm 0.15^{\circ}\text{C}$ @ 0°C
RTD 1/3 DIN: $\pm 0.1^{\circ}\text{C}$ @ 0°C
RTD 1/10 DIN: $\pm 0.03^{\circ}\text{C}$ @ 0°C

Probe Sensing Range..... -20 to 105°C (-4 to 221°F)

Wire Material.....1000 Ω - PVC insulated,
parallel bonded
100 Ω - FT4

Probe Material304 Series Stainless Steel

Probe Dimension.....6.35 mm (0.25") Diameter

Output Signal.....4-20mA current loop, 0-5 Vdc, or
0-10 Vdc (factory configured)

Transmitter Accuracy $\pm 0.125\%$ of span, including
linearity

4-20 mA loop power Supply.15-35 Vdc or 22-32 Vac

Minimum Current Loop2 mA nominal (occurs with
shorted sensor)

Maximum loop Current.....22.5 mA nominal (occurs with
open sensor)

Maximum Loop Load.....>600 ohms

0-5 Vdc Power Supply10-35 Vdc or 10-32 Vac

0-10 Vdc Power Supply.....15-35 Vdc or 15-32 Vac

Maximum Current (Voltage)..5 mA nominal

Maximum Output (Voltage)..limited to <5.5 Vdc for 0-5 Vdc,
<10.5 for 0-10 Vdc

Input Voltage EffectNegligible over specified
operating range

RFI rejection.....Good RFI rejection of normal
frequencies

Protection Circuitry.....Reverse voltage protected and
output limited

Ambient Operating Range..... -40 - 85°C (-40 - 185°F), 0-95% RH
non-condensing

Enclosure.....(B)-ABS, UL94-5VB, IP65 (NEMA 4X)
(C)- PVC, IP65 (NEMA 4X)

Wiring Connections.....Screw terminal block
(14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATXRP	High Accuracy Strap-On Temperature Transmitter

CODE	Enclosure
E	Round ABS, with gasket cover
P	PVC Weatherproof

CODE	Sensor
18	1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class A
48	1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
22	1000 Ω Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/10 DIN
41	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A
49	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
50	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN

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

CODE	Output
A	4-20 mA
C	0-5 Vdc
E	0-10 Vdc

CODE	Scaled Range
1	0-35 $^{\circ}\text{C}$ (32-95 $^{\circ}\text{F}$)
2	0-50 $^{\circ}\text{C}$ (32-122 $^{\circ}\text{F}$)
3	0-100 $^{\circ}\text{C}$ (32-212 $^{\circ}\text{F}$)
*	Custom ranges available

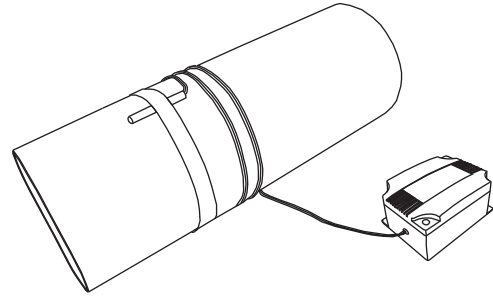
*CUSTOM SCALED TEMPERATURE RANGE

TYPICAL INSTALLATION:

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

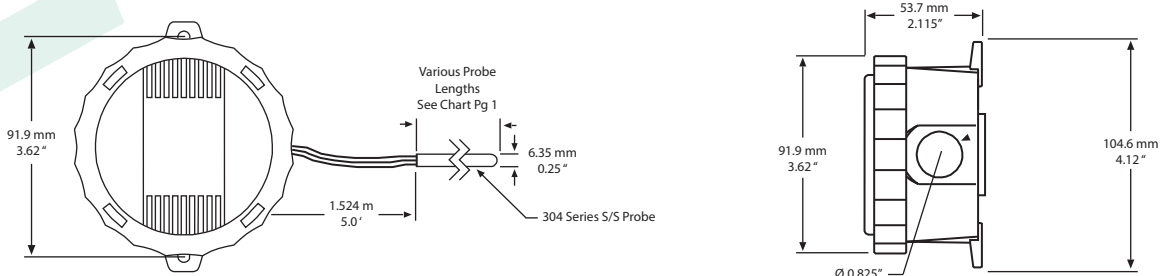
For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

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 1-3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If necessary, the pipe insulation can be re-applied to the pipe over the probe.

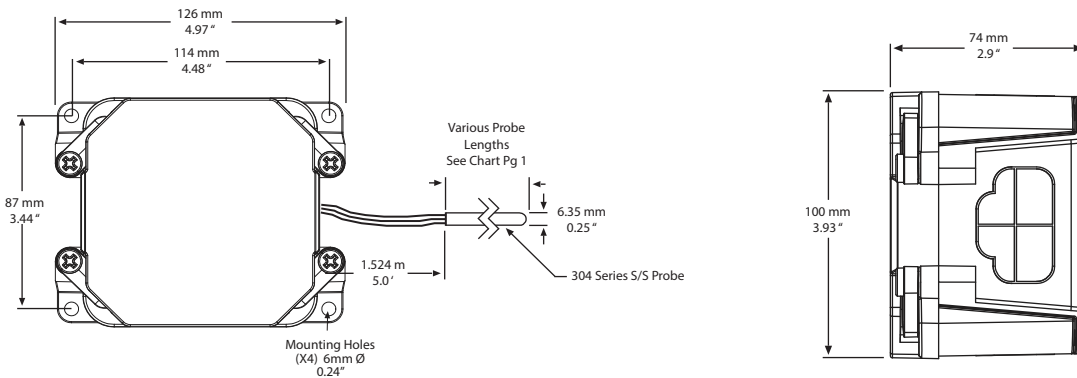


DIMENSIONS:

Round ABS Enclosure (E)



PVC Enclosure (P)



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



GREYSTONE
ENERGY SYSTEMS INC

Greystone Energy Systems, Inc.
150 English Drive, Moncton,
New Brunswick, Canada E1E 4G7
(506) 853-3057 Fax: (506) 853-6014
North America: 1-800-561-5611
e-mail: mail@greystoneenergy.com
www.greystoneenergy.com

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