



GREYSTONE ENERGY SYSTEMS INC

STRAP-ON TEMPERATURE TRANSMITTER TXRP Series

The single point strap-on temperature transmitter incorporates a precision platinum RTD encapsulated in a 6 mm (0.236") OD, 304 stainless steel probe and is available in various lengths. 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.

SPECIFICATION:

Sensor Type 1000 ohm Platinum RTD
 Sensor Accuracy..... ±0.3°C (±0.94°F) @ 0°C (32°F)
 Temperature Range..... -20 to 105°C (-4 to 221°F)
 Probe Sensing Range..... -20 to 105°C (-4 to 221°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")
 Standard Lengths..... 50, 100, 150, 200, 300, 450 mm
 (2", 4", 6", 8", 12", 18")
 Output Signal..... 4-20mA current loop, 0-5 Vdc, or 0-10 Vdc
 (factory configured)
 Transmitter Accuracy ±0.1% of span, including linearity
 4-20 mA loop power supply .. 15-35 Vdc or 22-32 Vac
 Minimum Loop Current 2 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 Supply 10-35 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 Effect..... Negligible over specified operating range
 Protection Circuitry..... Reverse voltage protected and output limited
 Ambient Operating Range..... 0 to 50°C (32 to 122°F), 0 to 95% RH non-condensing
 Enclosure..... ABS - UL94-V0, IP65 (NEMA4X)
 E - includes thread adapter (1/2" NPT to M16),
 and cable gland fitting
 Wiring Connections..... Screw terminal block (14 to 22 AWG)
 Country of Origin..... Canada

*This product is factory calibrated and any field adjustment will void the warranty.

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 probe 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
TXRP	Flexible Cable Duct Average Temperature Transmitter

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

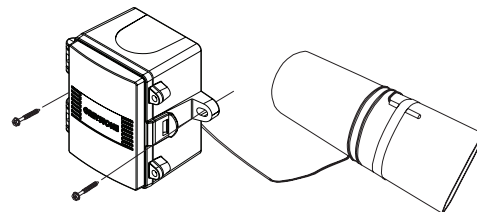
CODE	Sensor
12	10,000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)

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

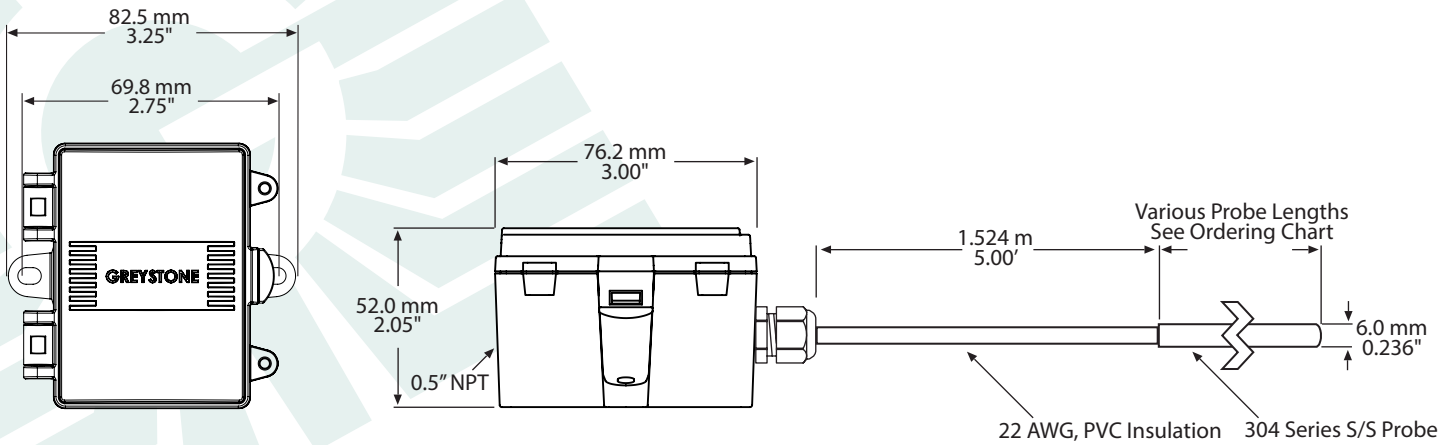
CODE	Output
A	4-20 mA
D	0-5 Vdc
E	0-10 Vdc

CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)
003	0 to 100°C (32 to 212°F)
*	Custom ranges available

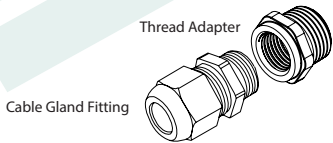
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



DIMENSIONS:



Included with E style enclosure



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