



GREYSTONE ENERGY SYSTEMS INC

STRAP-ON TEMPERATURE TRANSMITTER TXSO Series

The single point strap-on temperature transmitter has a precision platinum RTD bonded to a 38.1 mm x 38.1 mm (1.5" x 1.5") aluminum plate and adhered to a 38 mm (1.5") compressible foam. A 25.4 cm (10") S/S Pipe clamp is provided to secure the assembly to various sizes of pipes. All probes are constructed to provide excellent heat transfer, fast response and are potted to 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..... $\pm 0.3^\circ\text{C}$ ($\pm 0.94^\circ\text{F}$) @ 0°C (32°F)
 Probe Sensing Range..... -20 to 105°C (-4 to 221°F)
 Probe Material..... Aluminum plate with compressible foam backing
 Probe Dimensions..... 38 mm (1.5") square
 Pipe-strap 25.4 mm (10") Stainless steel
 Wire Material PVC insulated, parallel bonded, 22 AWG
 Output Signal..... 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
 Transmitter Accuracy $\pm 0.1\%$ 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), 0-95% 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.

The strap-on temperature transmitter series can be mounted directly to various sizes of pipes and secured using a 254 mm (10") S/S pipe clamp. If necessary, remove a section of insulation from the pipe. The 254 mm (10") S/S pipe clamp is a "Quick Release" type and can be separated by moving the tightening screw so that it is perpendicular to the clamp and slide the clamp apart. Position the aluminum plate on the pipe so it makes the best contact, wrap the clamp around the pipe and re-assemble and tighten. Any excess clamp may be cut off. For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Wiring connections are made inside the enclosure.

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TXSO	Strap-on Temperature Transmitter

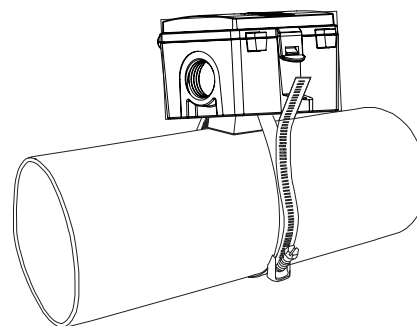
CODE	Enclosure
A	ABS, with hinged & gasketed cover
E	Same as A, with thread adapter & cable gland fitting

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

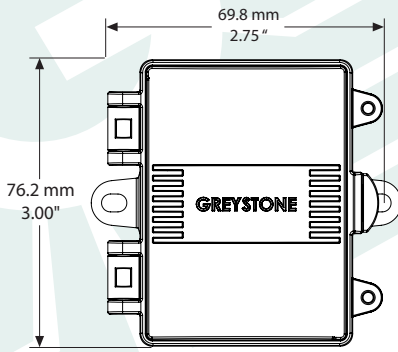
CODE	Output
A	4-20 mA
D	0-5 Vdc
E	0-10 Vdc

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

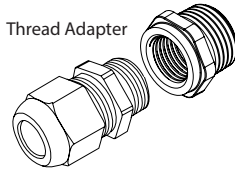
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



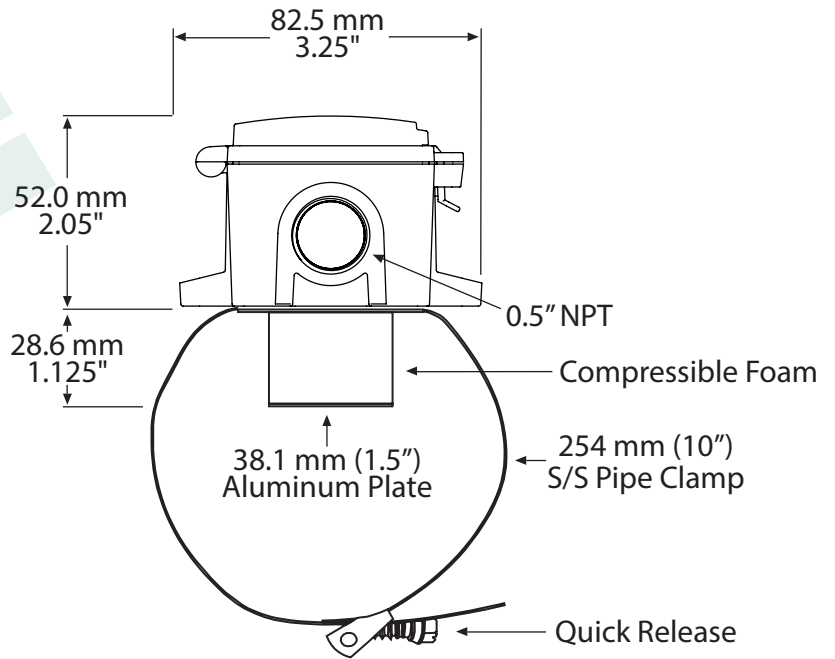
DIMENSIONS:



Included with E style enclosure



Cable Gland Fitting



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