GREYSTONE
ENERGY SYSTEMS INC

HIGH ACCURACY STRAP-ON TEMPERATURE TRANSMITTER
HATXSO Series

The high accuracy 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	**RTD Class A:** ±0.15°C @ 0°C **RTD 1/3 DIN:** ±0.1°C @ 0°C **RTD 1/10 DIN:** ±0.03°C @ 0°C
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	±0.125% 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

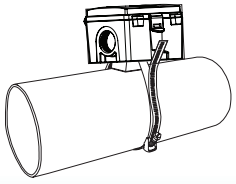
*This product is factory calibrated and any field adjustment will void the warranty.

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. Postion 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
HATXSO	High Accuracy Strap-on Temperature Transmitter

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

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

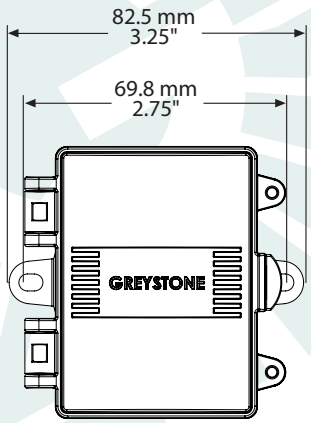
CODE	Output
A	4-20 mA
D	0-5 Vdc
E	0-10 Vdc

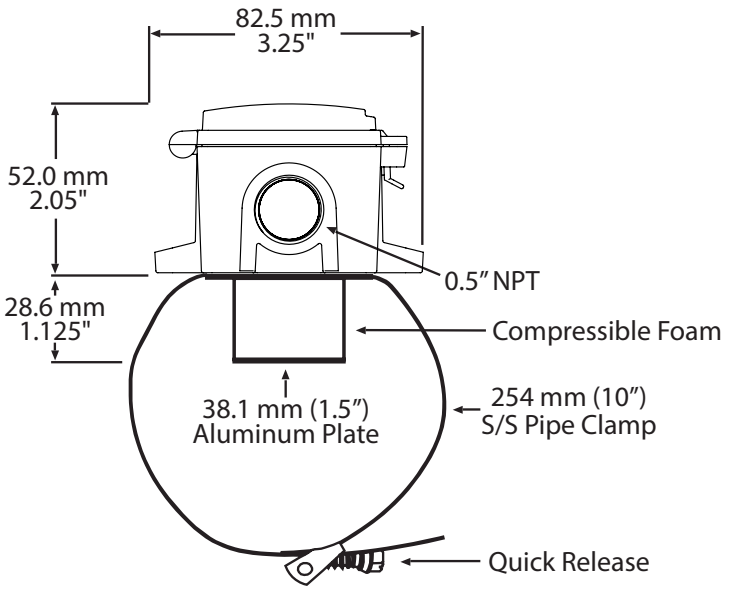
CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)
003	0 to 100°C (32 to 212°F)
*	Custom ranges available

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

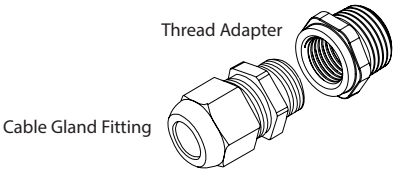
RoHS COMPLIANT

DIMENSIONS:





Included with E style enclosure



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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

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