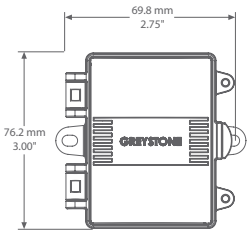
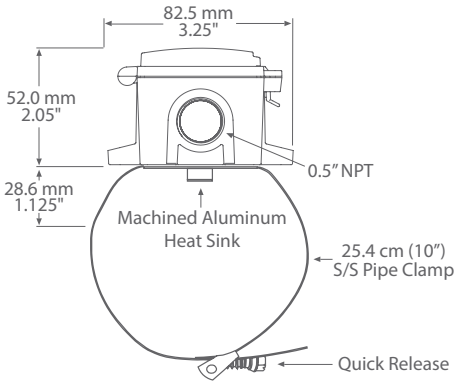
GREYSTONE
ENERGY SYSTEMS INC

# STRAP-ON TEMPERATURE TRANSMITTER




c UL us
LISTED




## TXSO SERIES

## PRODUCT DESCRIPTION

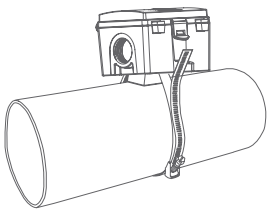
The single point strap-on temperature transmitter has a precision platinum RTD bonded to a machined aluminum heat sink. A 25.4 cm (10") S/S Pipe clamp is provided to secure the assembly to various sizes of pipes. All probes are constructed to provide excellent heat transfer, fast response and are potted 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.

## 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. The 254 mm (10") S/S pipe clamp is a "Quick Release" type and can be separated by moving the tightening screw. Position the aluminum plate on the pipe so it makes the best contact, wrap the clamp around the pipe and re-assemble and tighten. For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Wiring connections are made inside the enclosure.



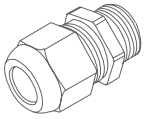
## SPECIFICATIONS

| | |
|---|---|
| SENSOR TYPE | 1000 Ω platinum RTD |
| SENSOR ACCURACY | ±0.3°C (±0.54°F) @ 0°C (32°F) |
| PROBE SENSING RANGE | -40 to 100°C (-40 to 212°F) |
| WIRE MATERIAL | PVC insulated, parallel bonded, 22 AWG |
| PROBE MATERIAL | Machined aluminum heat sink |
| PROBE DIMENSIONS | 38.1mm x 12.7mm (1.5" x 0.5") |
| PIPE STRAP | 25.4 cm (10") stainless steel |
| OUTPUT SIGNAL | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured) |
| TRANSMITTER ACCURACY | ±0.1% of span, including linearity |
| OUTPUT DRIVE @ 24 VDC | **Current:** 600 Ω maximum<br>**Voltage:** 10 KΩ minimum |
| MAXIMUM OUTPUT (VOLTAGE) | Limited to <5.5 Vdc or 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 | -40 to 60°C (-40 to 140°F), 5 to 95 %RH non-condensing |
| ENCLOSURE | **A:** ABS, UL94-V0, IP65 (NEMA 4X)<br>**E:** Same as A, with thread adapter (1/2" NPT to M16), and cable gland fitting |
| TERMINATION | Screw terminal block (14 to 22 AWG) |
| APPROVALS | CE |
| PROTECTION CLASS | III |
| POWER SOURCE UL | 0-5 Vdc: 10-35 Vdc or 10-28 Vac SELV (Class 2)<br>0-10 Vdc: 15-35 Vdc or 15-28 Vac SELV (Class 2)<br>4-20 mA: 15-35 Vdc (loop-powered) or 22-28 Vac Limited Energy, <15W |
| CONSUMPTION | Current @ 20 mA<br>Voltage @ 5 mA |
| EU CONFORMITY | CE |
| CERTIFICATION | UL 60730 & CSA E60730 |
| UL 2043 / CSA / ULC S142 COMPLIANT | Suitable for Use in Air Handling Spaces in Accordance with Section 300.22, (C) of the National Electrical Code |
| PURPOSE OF CONTROL | Operating Control |
| TYPE OF ACTION | Type 1 |
| IMPULSE VOLTAGE | 330V |
| POLLUTION DEGREE | 2 |
| COUNTRY OF ORIGIN | Canada |

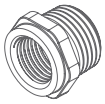
NOTE: This product is factory calibrated and any field adjustment will void the warranty.

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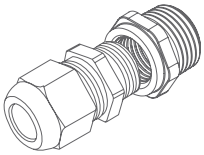
## ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



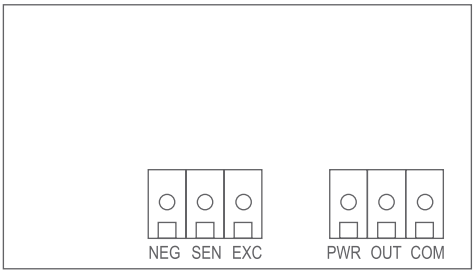
CABLE GLAND FITTING



THREAD ADAPTER 1/2" NPT TO M16



## WIRING INFORMATION




| TERMINAL | FUNCTION |
|---|---|
| PWR | Power Supply |
| OUT | Analog Output |
| COM | Common |
| NEG | |
| SEN | Temperature Sensor Input |
| EXC | |

## ORDERING

| | | |
|---|---|---|
| PRODUCT | **TXSO** | Strap-on Temperature Transmitter |
| ENCLOSURE | **A**<br>**E** | ABS, weatherproof with hinged and gasketed cover<br>Same as A, with thread adapter (1/2" NPT to M16), and cable gland fitting |
| SENSOR | **12X** | 1000 Ω Platinum, IEC 751, 385 Alpha, thin film |
| OUTPUT | **A**<br>**D**<br>**E** | 4-20mA<br>0-5 Vdc<br>0-10 Vdc |
| SCALED RANGE | **001**<br>**002**<br>**003**<br>* | 0 to 35°C (32 to 95°F)<br>0 to 50°C (32 to 122°F)<br>0 to 100°C (32 to 212°F)<br>Custom ranges available |

## PART NUMBER

| |
|---|
| **TXSO** |
| |
| |
| |
| |

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

RoHS COMPLIANT

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