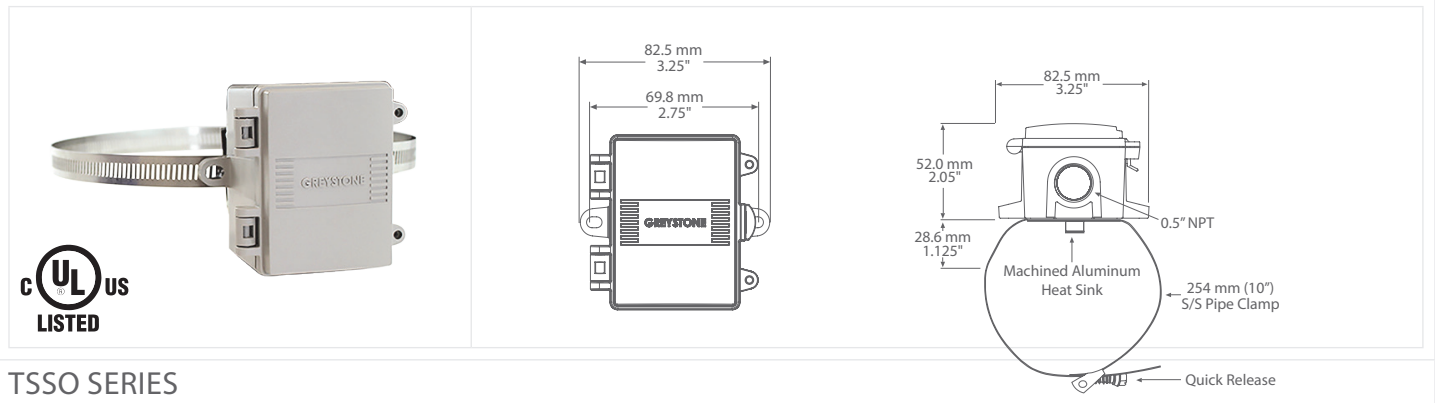


STRAP-ON TEMPERATURE SENSOR



TSSO SERIES

PRODUCT DESCRIPTION

The single point strap-on temperature sensor has a precision sensor bonded to a machined aluminum heat sink. A 254mm (10") S/S pipe clamp is provided to secure the assembly to various sizes of pipe. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration.

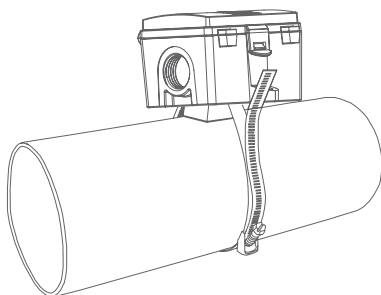
TYPICAL INSTALLATION

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

The single point sensor series can be mounted directly to various sizes of pipes and secured using the 10" S/S pipe clamp.

If necessary, remove a section of insulation from the pipe. The 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 sliding 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.

Wiring connections are made inside the enclosure using a 2 or 3 wire pigtail.



SPECIFICATIONS

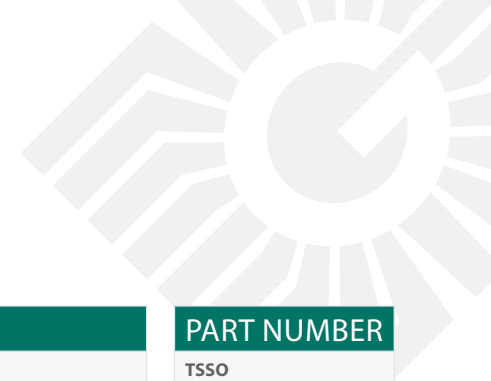
SENSOR TYPE	Thermistor or RTD (see ordering chart)
SENSOR ACCURACY	Thermistors: $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$) @ 25°C (77°F) Platinum RTD's: $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F) Nickel RTD's: $\pm 0.4^{\circ}\text{C}$ ($\pm 0.72^{\circ}\text{F}$) @ 0°C (32°F)
PROBE SENSING RANGE	-40 to 100°C (-40 to 212°F)
AMBIENT OPERATING RANGE	-40 to 60°C (-40 to 140°F), 5 to 95 %RH non-condensing
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
PROBE MATERIAL	Machined aluminum heat sink
PROBE SIZE	38.1mm x 12.7mm (1.5" x 0.5")
ENCLOSURE	A: ABS, UL94-V0, IP65 (NEMA 4X) C: same as A, with a terminal block E: Same as C, with thread adapter and cable gland fitting
TERMINATION	A: Pigtail, 2 or 3 wire C & E: Terminal block, 2 or 3 wire
PROTECTION CLASS	III
POWER SOURCE UL	SELV, Limited Energy (<15W)
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	Temperature Sensor
TYPE OF ACTION	Type 1
IMPULSE VOLTAGE	330V
POLLUTION DEGREE	2
COUNTRY OF ORIGIN	Canada

ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16



ORDERING		
PRODUCT	TSSO	Strap-on Temperature Sensor
ENCLOSURE	A	ABS, with hinged and gasketed cover
	C	Same as A, with terminal block
	E	Same as C, with thread adapter and cable gland fitting
SENSOR	02X	100 Ω Platinum, IEC 751, 385 Alpha, thin film
	05X	1801 Ω NTC Thermistor, ±0.2°C
	06X	3000 Ω NTC Thermistor, ±0.2°C
	07X	10,000 Ω Type 3, NTC Thermistor, ±0.2°C
	08X	2.252K Ω NTC Thermistor, ±0.2°C
	12X	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
	13X	1000 Ω Nickel, Class B, DIN 43760
	14X	10,000 Ω Type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor
	20X	20,000 Ω NTC Thermistor, ±0.2°C
	24X	10,000 Ω Type 2, NTC Thermistor, ±0.2°C
59X	10,000 Ω, 25°C, ±1%, B = 3435 ±1% (25/85)	

PART NUMBER
TSSO

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