

OUTSIDE TEMPERATURE SENSOR TSOS Series

The single point outside air temperature sensor utilizes a precision sensor. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A sun and wind shield is integrated into a weatherproof compact ABS enclosure with a hinged and gasketed cover for ease of installation.

SPECIFICATION:

Sensor TypeVarious Thermistors or RTD	
Sensor Accuracy Thermistors: ±0.2°C (±0.36°F) @ 25°C (77°F)	
Platinum RTD's: ±0.3°C (±0.54°F) @ 0°C (32°	'F)
Nickel RTD's: $\pm 0.4^{\circ}\text{C} \ (\pm 0.72^{\circ}\text{F}) \ @ \ 0^{\circ}\text{C} \ (32^{\circ}\text{F})$	
Porbe Sensing Range20 to 60°C (-4 to 140°F)	
Ambient Operating Range40 to 50°C (-40 to 122°F)	
Wire MaterialPVC insulated, parllel bonded, 22 AWG	
Enclosure	
C: Same as A, includes terminal block	
E: Same as C, with cable gland fitting	
Termination	
C: terminal block, 2 or 3 wire	
Country of OriginCanada	

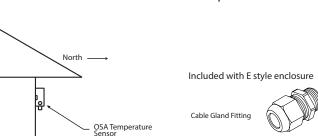
TYPICAL INSTALLATION:

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

The outside sensor should be mounted on an outside north facing wall, under the eaves which will provide protection from direct sunlight.

The outside sensor is mounted by extending a threaded end of the 1/2" conduit used for wiring through the building wall so that it extrudes at least 1 to 2" from the wall face. A 0.895" hole is provided for EMT connection. Open access cover, feed wires through and connect.

The outside sensor can be mounted directly to building's wall face using the provided mounting holes. A 0.85" hole for conduit connection is provided.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

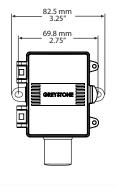
MODEL	Product Description				
TSOS	Outside Temperature Sensor				

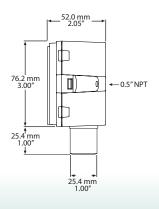
CODE Enclosure					
A ABS, with hinged & gasketed cover C Same as A, with terminal block E Same as C, with cable gland fitting					
		CODE	Sensor		
		02X 05X	100 Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire 1801 Ω NTC Thermistor, ±0.2°C		

CODE	Sensor
02X	100 Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire
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	$10,000 \Omega$, @ 25° C, $\pm 1\%$, B = $3435 \pm 1\%$ ($25/85$)
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

DIMENSIONS:





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