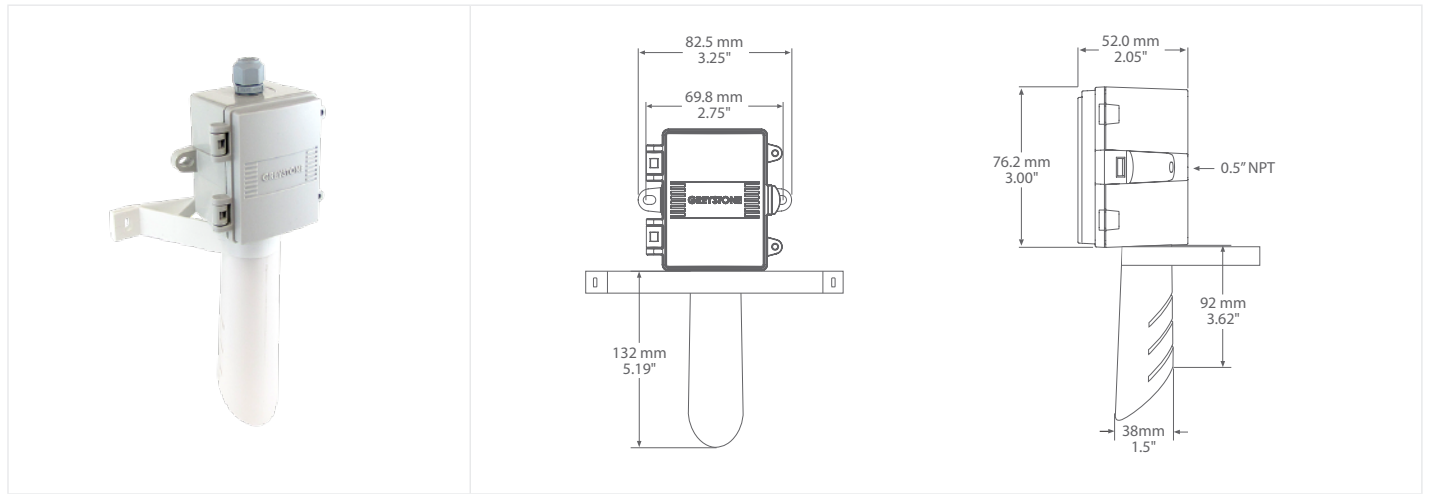




## OUTSIDE TEMPERATURE SENSOR



### TSOB SERIES

## PRODUCT DESCRIPTION

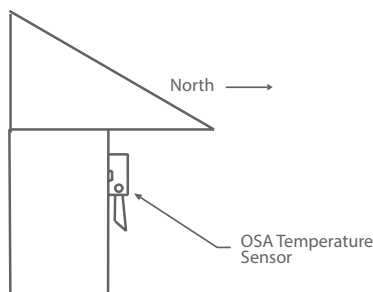
The single point outside air temperature sensor utilizes a precision sensor. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A sun and wind shield is integrated into a weatherproof compact Polycarbonate enclosure with a hinged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

## TYPICAL INSTALLATION

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

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

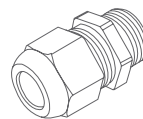
The TSOB can be mounted directly to the building's wall face using the provided mounting holes. A 0.85" hole for conduit connection or cable gland fitting is provided.



## SPECIFICATIONS

SENSOR TYPE	Thermistor or RTD (see ordering chart)
SENSOR ACCURACY	<b>Thermistors:</b> $\pm 0.2^{\circ}\text{C}$ ( $\pm 0.36^{\circ}\text{F}$ ) @ $25^{\circ}\text{C}$ ( $77^{\circ}\text{F}$ ) <b>Platinum RTD's:</b> $\pm 0.3^{\circ}\text{C}$ ( $\pm 0.54^{\circ}\text{F}$ ) @ $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ ) <b>Nickel RTD's:</b> $\pm 0.4^{\circ}\text{C}$ ( $\pm 0.72^{\circ}\text{F}$ ) @ $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ )
PROBE SENSING RANGE	-40 to $50^{\circ}\text{C}$ (-40 to $122^{\circ}\text{F}$ )
AMBIENT OPERATING RANGE	-40 to $50^{\circ}\text{C}$ (-40 to $122^{\circ}\text{F}$ ), 5 to 95 %RH non-condensing
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
ENCLOSURE	<b>A:</b> Polycarbonate, UL94-V0, IP65 (NEMA 4X) <b>C:</b> Same as A, includes terminal block <b>E:</b> Same as C, with cable gland fitting
TERMINATION	<b>A:</b> Pigtail, 2 or 3 wire <b>C &amp; E:</b> Terminal block, 2 or 3 wire
COUNTRY OF ORIGIN	Canada

## ACCESSORY - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING



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

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