



OUTSIDE AIR 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 Polycarbonate enclosure with a hinged and gasketed cover for ease of installation.

PRODUCT HIGHLIGHTS

- Compact form factor enclosure with soft close cover
- IP 65 Enclosure
- Fast response time
- Custom branding available

SPECIFICATIONS

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SENSOR TYPE	Thermistor or RTD 100 Ω Platinum, IEC 751, 385 Alpha, thin film 1801 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 3000 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 2.252K Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ c/w 11K shunt resistor 20,000 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω Type 2, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω, 25°C, $\pm 1\%$, $B = 3435 \pm 1\%$ (25/85)
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 50°C (-40 to 122°F)
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 5 to 95 %RH non-condensing
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
PROBE MATERIAL	Machined Aluminum probe
ENCLOSURE	A: Polycarbonate, 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
COUNTRY OF ORIGIN	Canada