



OUTSIDE TEMPERATURE SENSOR

TSOB 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
- Slotted mounting holes angled for ease of field installation
- Custom branding available
- Multiple mounting options

ENGINEERING SPEC'S

- Shall be IP65 (NEMA 4X) with a UL94-V0 rated enclosure
- External mounting tabs must be slotted & tapered away from enclosure to ease field installation
- Enclosure shall be complete with neoprene gasket for duct to enclosure seal
- Probe – Enclosure connection shall be fully potted to eliminate probe condensation and guarantee IP65 (NEMA4X rating)
- Enclosure shall be complete with threaded (1/2 NPT and/or M16) conduit connection
- Sensing probe shall be protected from sun and/or wind with a protective polycarbonate shield
- Cover must be hinged and securely attached in the open position
- Probe must be one-piece 6mm O.D 304 stainless steel
- Sensing range must be -40 to 50°C (-40 to 122°F)
- Cover must contain security screw as extra protection from opening
- Product shall be CE approved



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 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	Thermistor or RTD (see ordering chart)
ENCLOSURE	A: Polycarbonate, UL94-V0, IP65 (NEMA 4X) C: Same as A, includes terminal block E: Same as C, with cable gland fitting
TERMINATION	A: Pigtail, 2 or 3 wire & E: Terminal block, 2 or 3 wire
COUNTRY OF ORIGIN	Canada