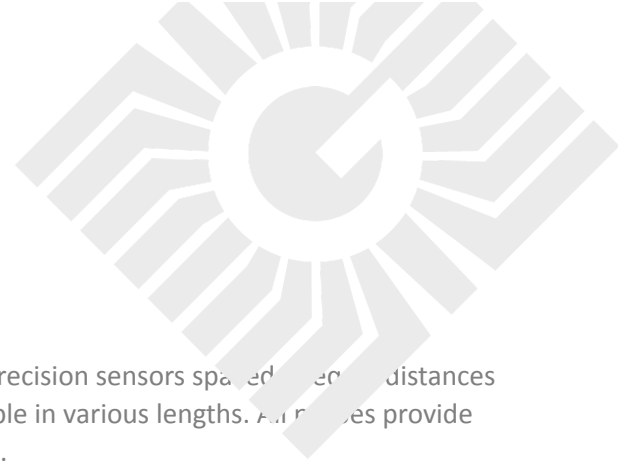




FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE SENSOR

TSDC Series

The flexible multi-point duct averaging temperature sensor utilizes several precision sensors spaced over distances and encapsulated in a 7.94mm (0.315") OD, soft copper probe, and is available in various lengths. All models provide excellent heat transfer, fast response and resistance to moisture penetration.

PRODUCT HIGHLIGHTS

- Compact form factor enclosure with soft close lid
- IP 65 Enclosure
- Slotted mounting holes angled for ease of field installation
- Custom branding available

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
- Cover must be hinged and securely attached in the open position
- Probe must be 7.94mm (0.315") O.D soft pliable copper tubing with FT-6 plenum rated 22 AWG cable
- Sensing range must be -40 to 60°C (-40 to 140°F)
- Cover must contain security screw as extra protection from opening
- Product shall be CE approved



SPECIFICATIONS	
SENSOR TYPES	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 60°C (-40 to 140°F)
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 5 to 95 %RH non-condensing
WIRE MATERIAL	FT-6 rated plenum cable, 22 AWG
PROBE MATERIAL	Soft copper
PROBE DIAMETER	7.94 mm (0.315")
STANDARD LENGTHS	1800, 3600, 6100, 7300mm (6', 12', 20', 24')
ENCLOSURE	ABS, UL94-V0, IP65 (NEMA 4X) C: includes terminal block E: same as C, with thread adapter (1/2" NPT to M16), and cable gland fitting
TERMINATION	A: pigtail, 2 or 3 wire C & E: terminal block, 2 or 3 wire
COUNTRY OF ORIGIN	Canada