



## FLEX-DUCT AVERAGE NETWORK TEMPERATURE SENSOR

TSDF Series

The flexible multi-point duct average temperature sensor utilizes several precision sensors spaced at equal distances. The probe is FT-6 rated plenum cable and is available in various lengths. All probes are constructed to provide excellent heat transfer and a fast response.

### PRODUCT HIGHLIGHTS

- Compact form factor enclosure with soft close lid
- Compact form factor makes handling/carrying easier
- 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
- Lead wire shall be FT-6 rated plenum cable
- 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
- 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 TYPE	Thermistor or RTD <ul style="list-style-type: none"> <li>● 100 Ω Platinum, IEC 751, 385 Alpha, thin film</li> <li>● 1801 Ω NTC Thermistor, ±0.2°C</li> <li>● 3000 Ω NTC Thermistor, ±0.2°C</li> <li>● 10,000 Ω Type 3, NTC Thermistor, ±0.2°C</li> <li>● 2.252K Ω NTC Thermistor, ±0.2°C</li> <li>● 1000 Ω Platinum, IEC 751, 385 Alpha, thin film</li> <li>● 1000 Ω Nickel, Class B, DIN 43760</li> <li>● 10,000 Ω Type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor</li> <li>● 20,000 Ω NTC Thermistor, ±0.2°C</li> <li>● 10,000 Ω Type 2, NTC Thermistor, ±0.2°C</li> <li>● 10,000 Ω, 25°C, ±1%, B = 3435 ±1% (25/85)</li> </ul>
SENSOR ACCURACY	<b>Thermistors:</b> ±0.2°C (±0.36°F) @ 25°C (77°F) <b>Platinum RTD's:</b> ±0.3°C (±0.54°F) @ 0°C (32°F) <b>Nickel RTD's:</b> ±0.4°C (±0.72°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
STANDARD LENGTHS	1800, 3600, 6100, 7300mm (6', 12', 20', 24')
ENCLOSURE	ABS, UL94-V0, IP65 (NEMA 4X) <b>C:</b> includes terminal block <b>E:</b> same as C, with thread adapter (1/2" NPT to M16), and 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