FLEXIBLE DUCT AVERAGE TEMPERATURE TRANSMITTER

TXDF Series

The flexible, multi-point duct averaging mounted temperature transmitter is available with a selection of platinum RTD sensors and a transmitter that provides a high accuracy signal with excellent long-term stability, low hysteresis and fast response. They are available with various scaled ranges. The sensing cable is constructed to provide excellent heat transfer, fast response time, and is available in several lengths and quantity of sensing elements.

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
* 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

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| SPECIFICATIONS |  |
| SENSOR TYPE | 1000 Ω platinum RTD |
| SENSOR ACCURACY | ±0.3°C (±0.94°F) @ 0°C (32°C) |
| TEMPERATURE RANGE | -40 to 60°C (-40 to 140°F) |
| STANDARD LENGTHS | 1800, 3600, 6100, 7300mm (6’, 12’, 20’, 24’) |
| CURRENT CONSUMPTION | **Current:** 20 mA  **Voltage:** 5 mA |
| OUTPUT DRIVE @ 24 VDC | Current: 600Ω maximum  Voltage: 10 KΩ minimum |
| OUTPUT SIGNAL | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured) |
| WIRE MATERIAL | FT-6 rated plenum cable, 22 AWG |
| TRANSMITTER ACCURACY | ±0.1% of span, including linearity |
| MINIMUM LOOP CURRENT | 2 mA nominal (occurs with shorted sensor) |
| MAXIMUM LOOP CURRENT | 22.5 mA nominal (occurs with open sensor) |
| MAXIMUM LOOP LOAD | >600 Ω |
| 0-5 VDC POWER SUPPLY | 10-35 Vdc or 10-32 Vac |
| 0-10 VDC POWER SUPPLY | 15-35 Vdc or 15-32 Vac |
| 4-20 mA LOOP POWER SUPPLY | 15-35 Vdc or 22-32 Vac |
| MAXIMUM CURRENT (VOLTAGE) | 5 mA nominal |
| MAXIMUM OUTPUT (VOLTAGE) | <5.5 Vdc for 0-5 Vdc, <10.5 Vdc for 0-10 Vdc |
| INPUT VOLTAGE EFFECT | Negligible over specified operating range |
| PROTECTION CIRCUITRY | Reverse voltage protected and output limited |
| AMBIENT OPERATING RANGE | -40 to 50°C (-40 to 122°F), 5 to 95 %RH non-condensing |
| ENCLOSURE | ABS, UL94-V0, IP65 (NEMA 4X)  E: same as C, with thread adapter (1/2” NPT to M16), and cable gland fitting |
| TERMINATION | Screw terminal block (14 to 22 AWG) |
| COUNTRY OF ORIGIN | Canada |