



STRAP-ON TEMPERATURE TRANSMITTER

TXSO Series

The single point strap-on temperature transmitter has a precision platinum RTD potted in a One-piece precision machined aluminum heat sink. A 25.4 cm (10") S/S Pipe clamp is provided to secure the assembly to various sizes of pipes. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long-term stability, low hysteresis and fast response is available with various ranges.

PRODUCT HIGHLIGHTS

- Compact form factor enclosure with soft close cover
- IP 65 Enclosure
- Adjustable angle for sensor for easy mounting
- Fast response time
- 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
- 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
- Mounting clamp shall be a one-piece quick release for ease of field installation
- Probe must be one-piece Machined Aluminum heat sink complete fully potted sensor
- Sensing range must be -40 to 100°C (-40 to 212°F)
- Cover must contain security screw as extra protection from opening
- Product shall be CE approved


SPECIFICATIONS

SENSOR TYPE	1000 Ω platinum RTD
SENSOR ACCURACY	$\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F)
PROBE SENSING RANGE	-40 to 100°C (-40 to 212°F)
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
PROBE MATERIAL	Machined aluminum heat sink
PROBE DIMENSIONS	38.1mm x 12.7mm (1.5" x 0.5")
PIPE STRAP	25.4 cm (10") stainless steel
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	$\pm 0.1\%$ of span, including linearity
OUTPUT DRIVE @ 24 VDC	Current: 600 Ω maximum Voltage: 10 k Ω minimum
POWER SUPPLY	0-5 Vdc: 10-35 Vdc or 10-28 Vdc 0-10 Vdc: 15-35 Vdc or 15-28 Vdc 4-20 mA: 15-35 Vdc (loop-powered) or 22-28 Vdc
CURRENT CONSUMPTION	Current: 20 mA Voltage: 5 mA
MAXIMUM CURRENT (VOLTAGE)	5 mA nominal
MAXIMUM OUTPUT (VOLTAGE)	Limited to <5.5 Vdc or 0-5 Vdc, <10.5 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	A: ABS, UL94-V0, IP65 (NEMA 4X) E: Same as A, with thread adapter (1/2" NPT to M16), and cable gland fitting
TERMINATION	Screw terminal block (14 to 22 AWG)
APPROVALS	CE
COUNTRY OF ORIGIN	Canada