OUTSIDE TEMPERATURE TRANSMITTER WITH SHIELD

TXOB Series

The single point outside temperature transmitter utilizes a precision platinum RTD 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 the enclosure. It is provided in a weatherproof Polycarbonate enclosure. 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
* Slotted mounting holes angled for ease of field installation
* Custom branding available
* Available with 4-20mA, 0-5Vdc or 0-10Vdc analog outputs
* Three temperature ranges, 0-35C, 0-50C or 0-100C options.
* PCB conformal coated for environmental protection.

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 | 1000 Ω platinum RTD |
| SENSOR ACCURACY | ±0.3°C (±0.54°F) @ 0°C (32°F) |
| PROBE SENSING RANGE | -40 to 50°C (-40 to 122°F) |
| WIRE MATERIAL | PVC insulated, parallel bonded, 22 AWG |
| PROBE MATERIAL | 304 series stainless steel |
| PROBE DIAMETER | 6 mm (0.236”) |
| CURRENT CONSUMPTION | **Current:** 20 mA  **Voltage:** 5 mA |
| OUTPUT SIGNAL | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured) |
| 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 | 15-30 Vdc or 15-28 Vac |
| 4-20 mA LOOP POWER SUPPLY | 15-35 Vdc or 22-32 Vac |
| 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 |
| ENCLSOURE | **A:** Polycarbonate, 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) |
| COUNTRY OF ORIGIN | Canada |
|  |  |