



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 ABS enclosure. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges.



SPECIFICATION:

Sensor Type 1000 ohm Platinum RTD
 Sensor Accuracy $\pm 0.3^{\circ}\text{C}$ ($\pm 0.94^{\circ}\text{F}$) @ 0°C (32°F)
 Probe Sensing Range -40 to 50°C (-4 to 122°F)
 Wire Material PVC insulated, parallel bonded, 22 AWG
 Temperature Range -40 to 50°C (-40 to 122°F)
 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
 4-20 mA loop power supply .. 15-35 Vdc or 22-32 Vac
 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 ohms
 0-5 Vdc Power Supply 10-35 Vdc or 10-32 Vac
 0-10 Vdc Power Supply 15-35 Vdc or 15-32 Vac
 Maximum Current (Voltage) .. 5 mA nominal
 Maximum Output (Voltage) .. Limited to <5.5 Vdc for 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 (-4 to 122°F), 0 to 95 %RH non-condensing
 Enclosure ABS - UL94-V0, IP65 (NEMA4X)
 Wiring Connections Screw terminal block (14 to 22 AWG)
 Country of Origin Canada

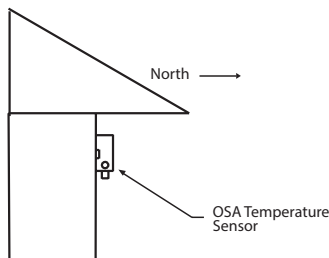
*This product is factory calibrated and any field adjustment will void the warranty.

TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The outside temperature transmitter should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight.

The outside temperature sensor can be mounted directly to building's wall face using the provided mounting holes. There is one 0.85" hole for conduit connection.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TXOS	Outside Temperature Transmitter, Hinged ABS Weatherproof Enclosure

CODE	Enclosure
A	ABS, with hinged & gasketed cover

CODE	Sensor
12X	1000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)

CODE	Output
A	4-20 mA 2 or 3 wire
D	0-5 VDC 3 wire
E	0-10 VDC 3 wire

CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)
003	0 to 100°C (32 to 212°F)
006	-50 to 50°C (-58 to 122°F)

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

DIMENSIONS:

