GREYSTONE ENERGY SYSTEMS INC

HIGH ACCURACY OUTSIDE TEMPERATURE TRANSMITTER
HATXOS Series

The high accuracy 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	**RTD Class A:** ±0.15°C @ 0°C **RTD 1/3 DIN:** ±0.1°C @ 0°C **RTD 1/10 DIN:** ±0.03°C @ 0°C
Probe Sensing Range	-40 to 50°C (-4 to 122°F)
Wire Material	PVC insulated, parallel bonded, 22 AWG
Temperature Range	±0.2°C (±0.36°F), 0 to 70°C (32 to 158°F)
Output Signal	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
Transmitter Accuracy	±0.125% 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

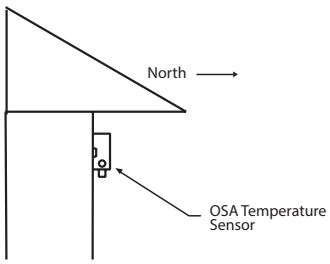
*This product is factory calibrated and any field adjustment will void the warranty.

TYPICAL INSTALLATION:

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

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

The HATXOS 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
HATXOS	High Accuracy Outside Temperature Transmitter

CODE	Enclosure
A	ABS, with hinged & gasketed cover

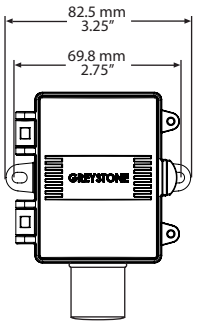
CODE	Sensor
18X	1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film Class A
48X	1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/3 DIN
22X	1000 Ω, Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/10 DIN
41X	1000 Ω, Platinum, 3 wire IEC 751, 385 Alpha, thin film, Class A
49X	1000 Ω, Platinum, 3 wire IEC 751, 385 Alpha, thin film, 1/3 DIN
50X	1000 Ω, Platinum, 3 wire IEC 751, 385 Alpha, thin film, 1/10 DIN

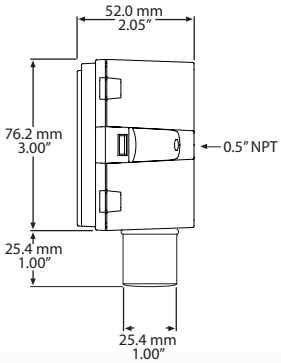
CODE	Output
A	4-20 mA
D	0-5 Vdc
E	0-10 Vdc

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:





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RoHS COMPLIANT

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