GREYSTONE ENERGY SYSTEMS INC

FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE TRANSMITTER
TXDC Series

The multi point duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances (DC is continuous) and encapsulated in a 7.94 mm (0.3125") OD, soft copper probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and 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.

SPECIFICATION:

Sensor Type.....1000 ohm Platinum RTD
Sensor Accuracy.....±0.3°C (±0.94°F) @ 0°C (32°F)
Probe Sensing Range .....-20 to 60°C (-4 to 140°F)
Wire Material.....FT-6 rated plenum cable, 22 AWG
Probe Material.....Soft copper
Probe Diameter.....7.94 mm (0.3125")
Standard Lengths.....1800, 3600, 6100, 7300 mm
(6', 12', 20', 24')
Output Signal.....4-20 mA current loop, 0-5 Vdc, or
0-10 Vdc (factory configured)
Transmitter Accuracy.....±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.....0 to 50°C (32 to 122°F), 0 to 95 %RH non-condensing
Enclosures.....ABS - UL94-V0, IP65 (NEMA4X)
E - includes thread adapter (1/2" NPT to M16),
and cable gland fitting
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.

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TXDC	Flexible Copper Duct Average Temperature Transmitter

CODE	Enclosure
A	ABS, with hinged & gasketed cover
E	Same as A, with thread adapter & cable gland fitting

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

CODE	Probe Length	No. of Sensors
I	1800 mm (6')	(4 Sensors)
J	3600 mm (12')	(4 Sensors)
K	6100 mm (20')	(4 Sensors)
L	7300 mm (24')	(9 Sensors)

CODE	Output
A	4-20mA
C	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)
*	Additional Ranges Available

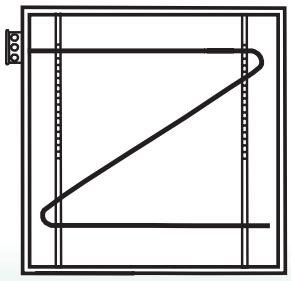
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

TYPICAL INSTALLATION:

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

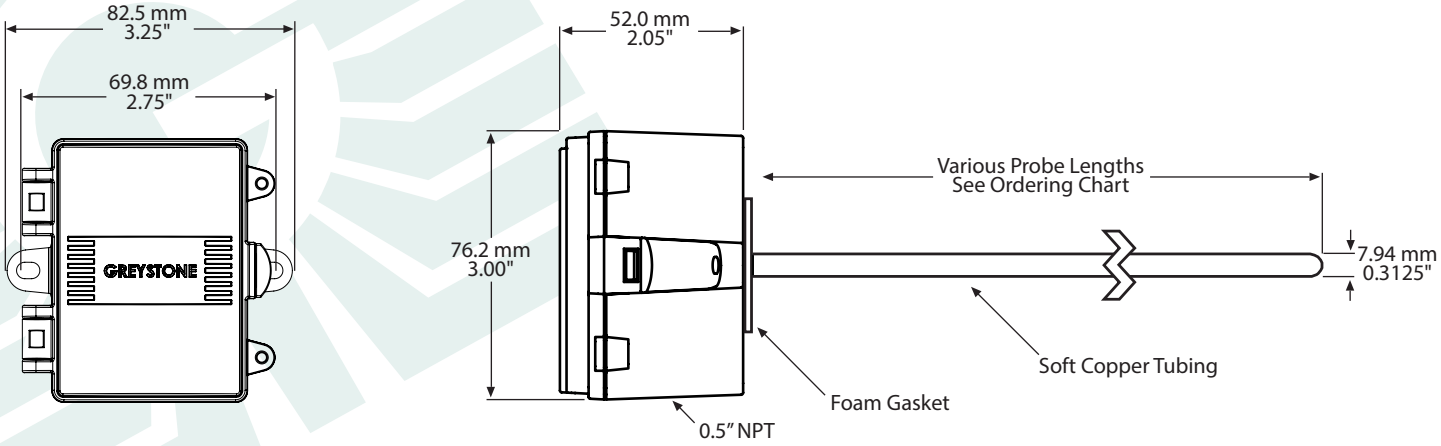
The duct average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

The enclosure provides mounting tabs for ease of installation.

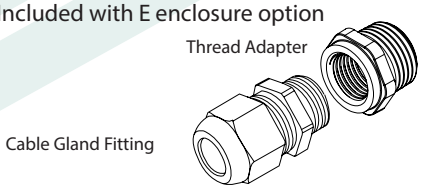


RoHS COMPLIANT

DIMENSIONS:



Included with E enclosure option



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RoHS COMPLIANT

Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM

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