



GREYSTONE ENERGY SYSTEMS INC

FLEX-DUCT AVERAGE TEMPERATURE TRANSMITTER TXDF Series

The flexible, multi-point duct averaging mounted temperature transmitter is available with a selection of platinum RTD sensors and a transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response. They are available with various scaled ranges. The sensing cable is constructed to provide excellent heat transfer, fast response time and is available in several lengths and quantity of sensing elements.



SPECIFICATION:

Sensor Type.....1000 ohm Platinum RTD
 Sensor Accuracy.....±0.3°C (±0.54°F) @ 0°C (32°F)
 Probe Sensing Range-20 to 60°C (-4 to 140°F)
 Sensing Cable.....FT-6 rated plenum cable, 22 AWG
 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
 Wiring Connections.....Screw terminal block (14 to 22 AWG)
 Enclosures.....ABS - UL94-V0, IP65 (NEMA4X)
 E - includes thread adapter (1/2" NPT to M16),
 and cable gland fitting
 Country of Origin.....Canada

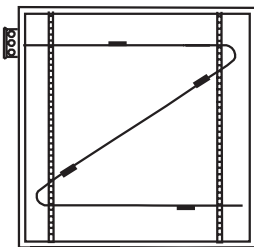
*This product is factory calibrated and any field adjustment will void the warranty.

TYPICAL INSTALLATION:

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

The flex-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.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TXDF	Flexible Cable 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)

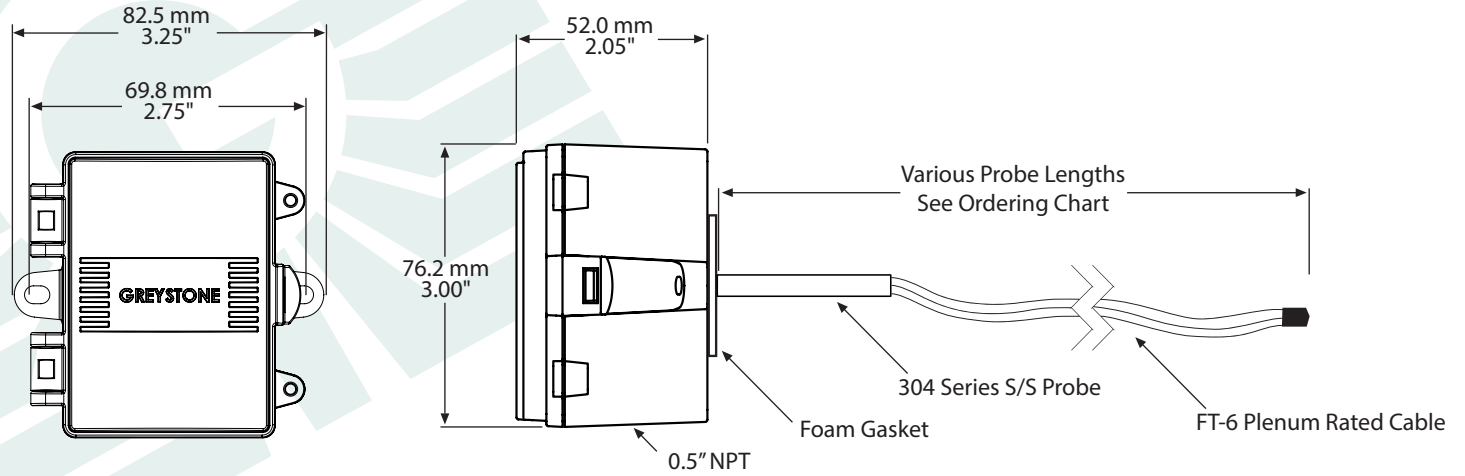
CODE	Cable Length	No. of Sensors
I	1800 mm (6')	(4 Sensors)
J	3600 mm (12')	(4 Sensors)
K	6100 mm (20')	(4 Sensors)
L	7300 mm (24')	(9 Sensors)

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

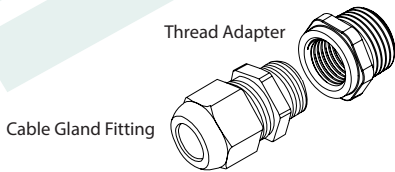
CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)
*	Additional Ranges Available

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

DIMENSIONS:



Included with E style enclosure



GREYSTONE

ENERGY SYSTEMS INC

Greystone Energy Systems, Inc.
150 English Drive, Moncton,
New Brunswick, Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014
North America: 1-800-561-5611
e-mail: mail@greystoneenergy.com
www.greystoneenergy.com

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