GREYSTONE
ENERGY SYSTEMS INC

The flex-duct averaging temperature transmitter incorporates numerous precision platinum RTD's encapsulated at equal distances along a FT-6 plenum rated cable and is available in various lengths (see ordering chart). The sensing cable is constructed to provide excellent heat transfer and fast response. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response for measurement of duct temperatures. A weatherproof Polycarbonate enclosure is provided for ease of installation. An LCD is provided in either °C or °F.
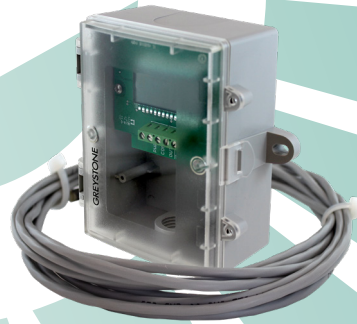
SPECIFICATIONS:

Sensor Type:...................................1000 ohm platinum RTD
Sensor Accuracy:........................±0.3°C (±0.94°F) @ 0°C (32°F)
Wire Material:...............................PVC insulated, parallel bonded, 22 AWG
Probe Sensing Range:..............-20 to 60°C (-4 to 140°F)
Probe Material:...........................FT-6 plenum rated cable
Probe Diameter:..........................6 mm (0.236")
Wire Material:...............................FT-6 plenum rated cable, 22 AWG
Standard lengths:.......................1800 mm, 3600 mm, 6100 mm, 7300 mm
(6', 12', 20', 24')
Output Signal:..............................4-20 mA current loop, 0-5 vdc, or 0-10 vdc
(factory configured)
Transmitter Accuracy:...............±0.2% of span, including linearity
Power Supply:...............................15 to 30 Vdc, 12 to 28 Vac
Consumption (max):..................20 mA for current, 11 mA for voltage
Protection Circuitry:..................Reverse voltage protected and output limited
Output Drive @ 24 Vdc:...........700 ohms max for current output,
20K ohms min for voltage output
LCD Display Units:......................°C or °F (factory configured)
Display Range:..............................3 digit for -88.8 to 888 as required
Display Size:.................................38.1mm W x 16.5 mm H (1.5" to 0.65")
Digit Height:................................11.4 mm (0.45") plus °C/°F symbol
Ambient Operating Range:...0 to 50°C (32 to 122°F), 0-95 %RH
Enclosure:.....................................Grey polycarbonate UL94-V0, IP65 (NEMA 4X)
F style 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

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 elements.

The enclosure provides mounting tabs for ease of installation.

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:
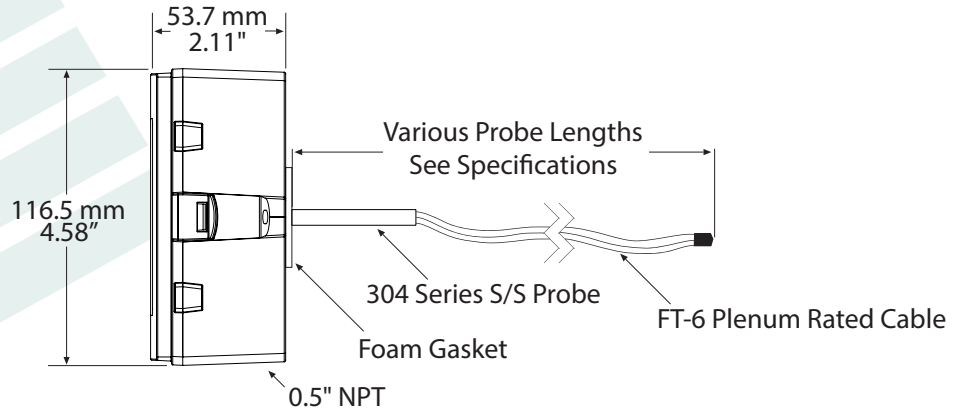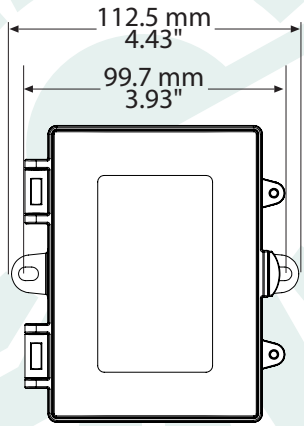
MODEL	Product Description
TDDF	Flexible Cable Duct Average Temperature Transmitter with Display

CODE	Enclosure
B	Polycarbonate, with hinged & gasketed cover
F	Same as B, with thread adapter & cable gland fitting

CODE	Display Units
C	Celsius
F	Fahrenheit

CODE	Sensor
12	1000 Ω, Platinum, 2 Wire, IEC 751, 385 thin film, Class B

CODE	Cable Length
I	1800 mm (6')
J	3600 mm (12')
K	6100 mm (20')
L	7300 mm (24')

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)

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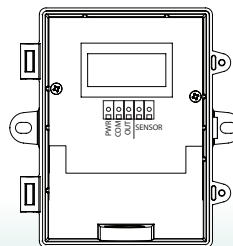
Wiring:

Terminal	Function
PWR	Power Supply
COM	Power Supply Common
TEMP (2)	Temperature Sensor Input
NO	Relay Output - Normally Open Contact
COM	Relay Common
NC	Relay Output - Normally Closed Contact

GREYSTONE ENERGY SYSTEMS, INC.

RoHS COMPLIANT

MADE IN CANADA

ISO9001 Certified System

CE

DIMENSIONS:

112.5 mm
4.43"

99.7 mm
3.93"

53.7 mm
2.11"

116.5 mm
4.58"

Various Probe Lengths
See Specifications

304 Series S/S Probe

FT-6 Plenum Rated Cable

Foam Gasket

0.5" NPT

Included with F style enclosure

Thread Adapter

Cable Gland Fitting
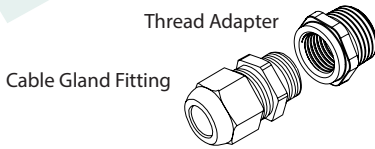
GREYSTONE
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RoHS
COMPLIANT

GREYSTONE 5 Warranty

MADE IN CANADA

Certified System ISO9001

CE

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