

SUBMITTAL

Flex Duct Averaging Temp. Transmitter

Part Number:

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE500FD	Flex Duct Averaging Temperature Transmitter

CODE	Enclosure (ABS enclosure is standard)
B	ABS enclosure, standard (no code required, leave blank)
C	Aluminum weatherproof box
D	Metal utility box
E	Round ABS, w/gasketed cover

CODE	Sensor
2	PT100-100 Ω Platinum, IEC 751, 385 Alpha, thin film
12	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film

CODE	Probe Length/No. of Sensors
A	1800 mm (6') (4 Sensors)
B	3600 mm (12') (4 Sensors)
C	6100 mm (20') (4 Sensors)
D	7300 mm (24') (9 Sensors)

CODE	Transmitter Output Signal
1A	Current 4-20mA
1D	Voltage 0-5 Vdc
1E	Voltage 0-10 Vdc

CODE	Transmitter Range
1	0° - 35°C (32° - 95°F)
2	0° - 50°C (32° - 122°F)
6	-50° - 50°C (-58° - 122°F)
*	Custom range, please contact Greystone

TE500FD B 12 C 1A 2

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

EXAMPLE: Flex Duct Average, 20' Cable, 4-20 mA, 0° - 50 °C

***Custom Range:**

The TE500D multi-point flex duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances across a FT-6 plenum rated cable 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. (See ordering chart)

Sensor Operating Temperature Range	-20° to 60 °C (-4° to 140 °F) Higher ranges available, please contact Greystone
Enclosure	Standard - ABS - UL94-V - NEMA 1 (IP23) Round (E) - ABS - NEMA 3 (IP64) Metal (M) - Galvanized steel - NEMA 1 (IP23) Weatherproof (W) - Cast Aluminum - NEMA 4X (IP66)
Cable	FT-6 Plenum rated cable
Probe	FT-6 Plenum rated cable
Output Signal	Current: 4-20 mA current loop Voltage: 0-5 or 0-10 Vdc (Factory Configured)
Transmitter Accuracy	±0.1% of span, including linearity
Power Supply	Current: 15-35 Vdc or 22-32 Vac Voltage: 0-5 Vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 Vdc or 15-32 Vac
Power Consumption	Current: 22.5 mA Max. (Occurs with open sensor) Voltage: 5 mA nominal
PCB Operating Temperature	0° to 70°C (32° to 158°F)
Wiring Connections	Two or three wires Screw terminal block (14 to 22 AWG)

Installation:

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.

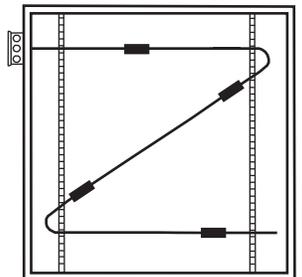
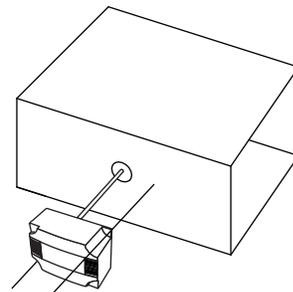
Each enclosure style provides mounting tabs on the outside for ease of installation.



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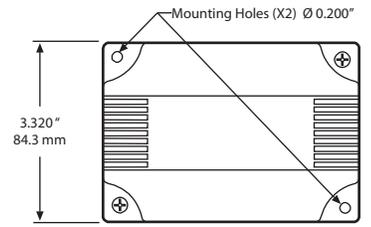
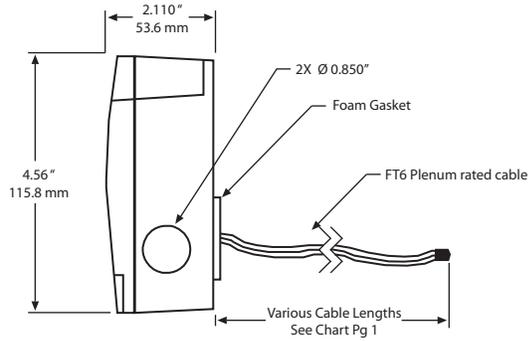
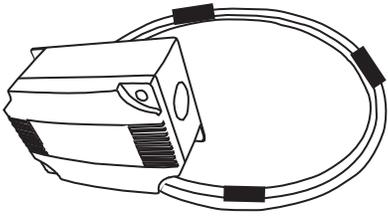
RoHS
COMPLIANT



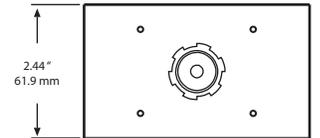
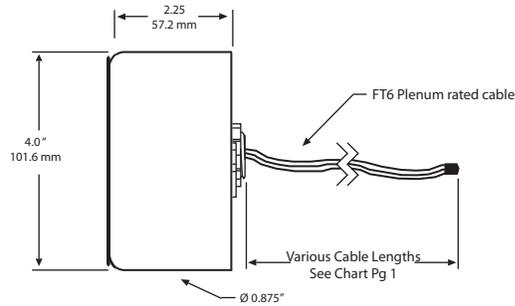
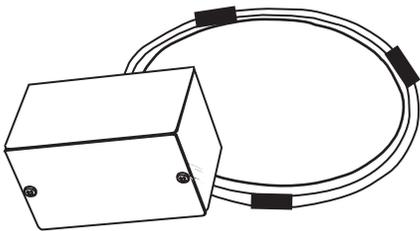


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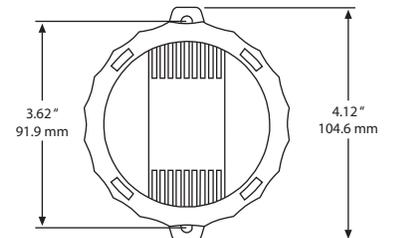
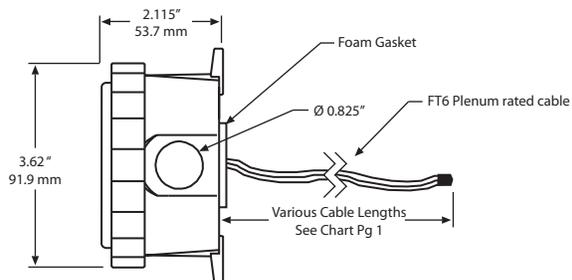
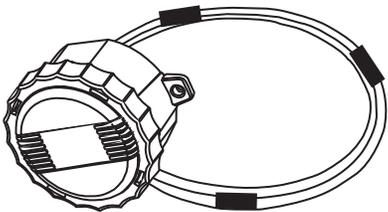
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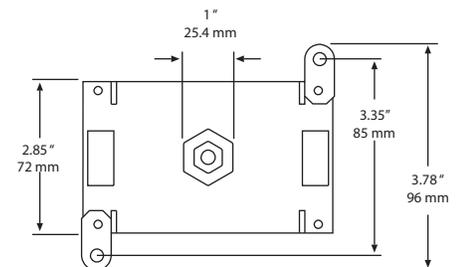
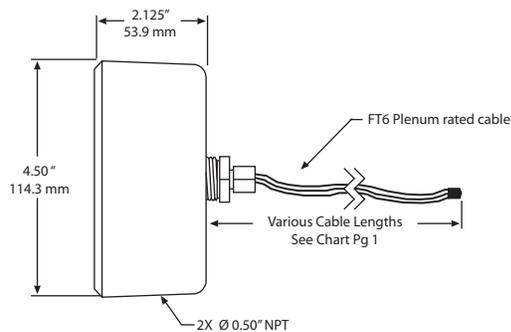
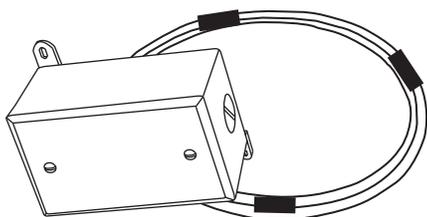
ABS Enclosure



Metal Enclosure (M)



Round ABS Enclosure (E)



Weatherproof Enclosure (W)