

SUBMITTAL

Part Number:

Duct Average Temperature Transmitter

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE500D	Duct Average Temperature Sensor
TE500DC	Continuous Duct Average Temperature Sensor (Available in Type 12, 1000 Ω Plat. only)

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

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 for Multipoint (D)
G	1800 mm (6') (4 Sensors) Not available on DC
H	3600 mm (12') (4 Sensors)
I	6100 mm (20') (4 Sensors) Not available on DC
J	7300 mm (24') (9 Sensors)

CODE	Probe Material
3	Copper

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)
*	Customer range, please contact Greystone

TE500D - 2 I 3 1A 2

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

EXAMPLE: Duct average, 20' Copper, 4-20 mA, 0-50 °C

***Custom Range:**

The TE500D 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. (See ordering chart) .

Sensor Operating Temperature Range	DC: -20 to 60 °C (-4 to 140 °F) DC: -40 to 100 °C (-40 to 221 °F)
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	0.3125" (7.94 mm) Soft Copper
Output Signal	Current: 4-20 mA current loop Voltage: 0-5 or 0-10 Vdc/C (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 15-32Vac
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:

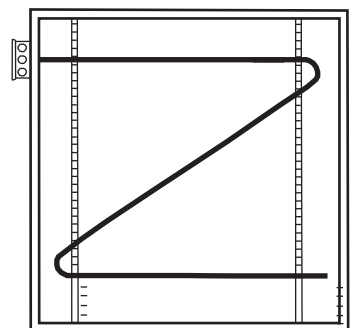
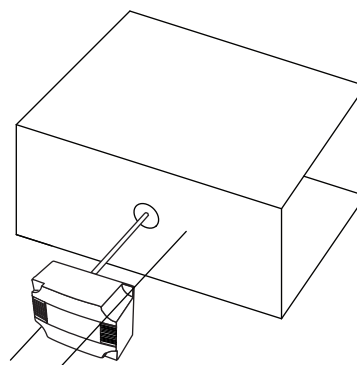
The duct average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating,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

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



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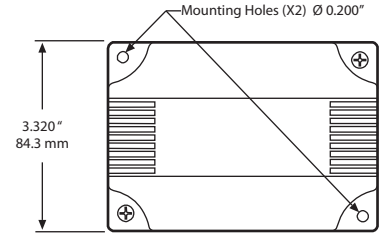
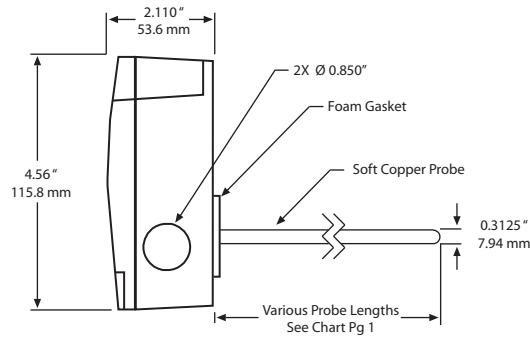
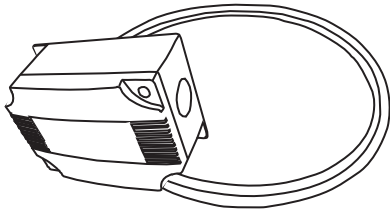
RoHS
COMPLIANT



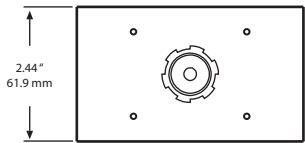
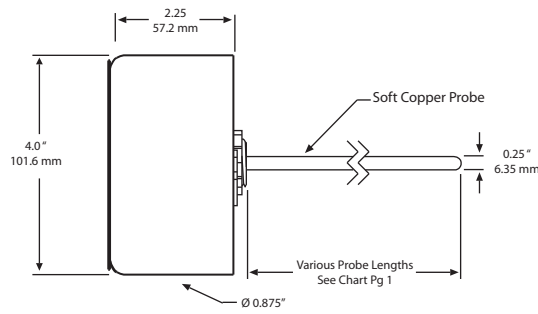
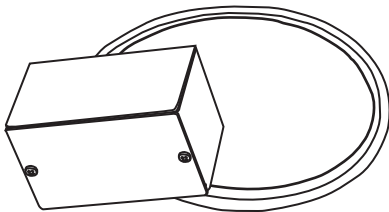
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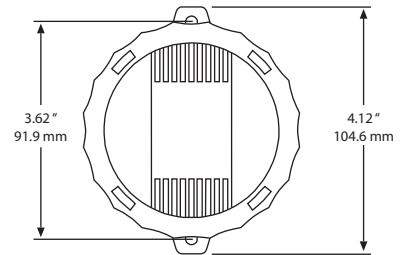
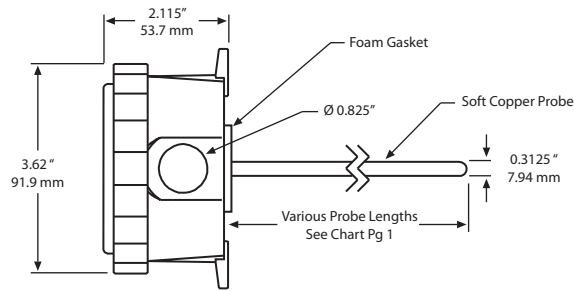
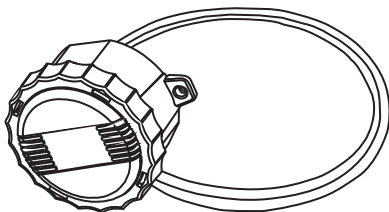
GREYSTONE
ACCURACY BY DESIGN



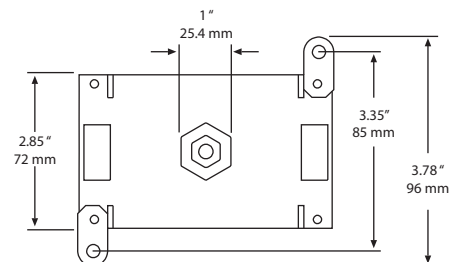
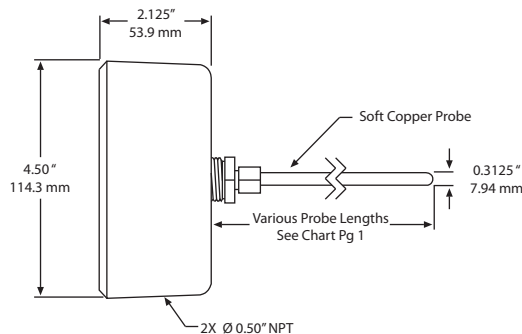
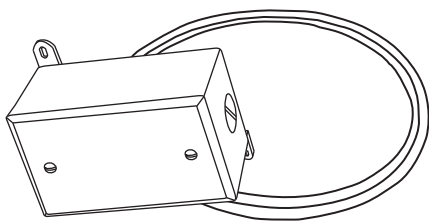
ABS Enclosure



Metal Enclosure (M)



Round ABS Enclosure (E)



Weatherproof Enclosure (W)