SUBMITTAL
Duct Temperature Transmitter

Part Number:

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE500B	Duct Temperature Sensor

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 (**Standard**)

CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")
E	300 mm (12")
F	450 mm (18")

CODE	Probe Material
2	304 Series stainless steel

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)
3	0° - 100°C (32° - 212°F)
4	50° - 150°C (122° - 302°F)
5	50° - 250°C (122° - 482°F)
6	-50° - 50°C (-58° - 122°F)
*	Custom range, please contact Greystone

TE500B	-	12	E	2	1A	2

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

EXAMPLE: Duct, 10 K Thermistor, 12" (300 mm) S/S

***Custom Range:**

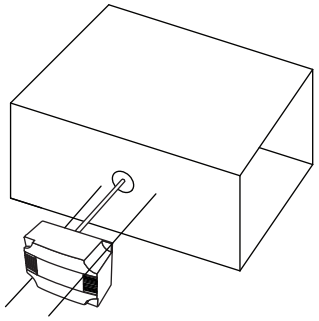
The TE500B single point duct temperature transmitter incorporates a precision platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is provided.

Operating Temperature Range	-20° to 105 °C (-4° to 221 °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	PVC insulated, parallel bonded (Type 2, 100 ohm Platinum is FT-4)
Probe	304 Series stainless steel with spin welded tip
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 15-32Vac
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 type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

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



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ACCURACY BY DESIGN

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RoHS COMPLIANT

Dimensions:

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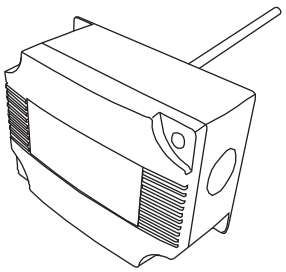
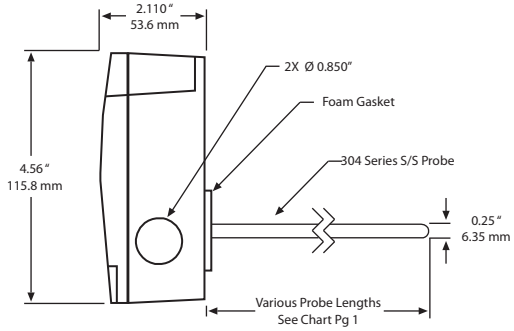
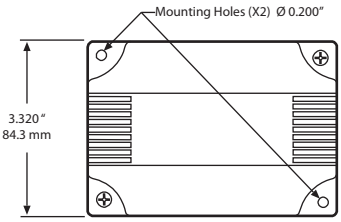
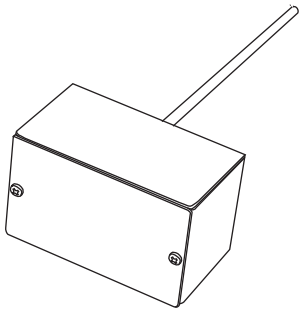
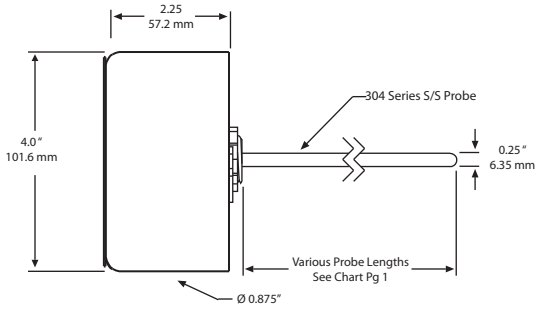


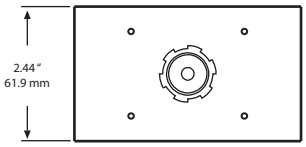




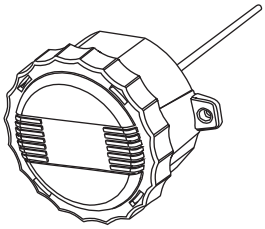
ABS Enclosure

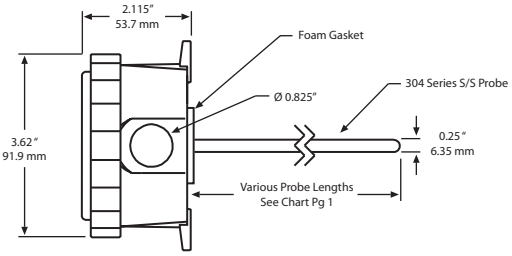


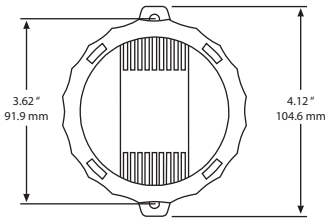




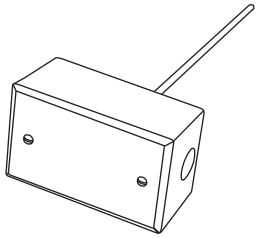
Metal Enclosure

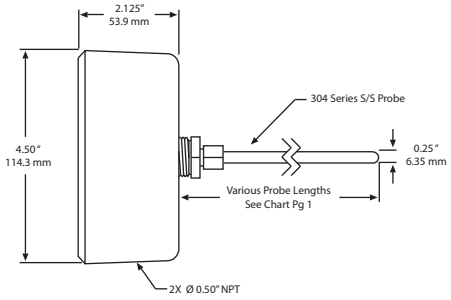


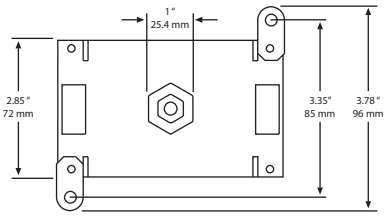




Round ABS Enclosure







Weatherproof Enclosure