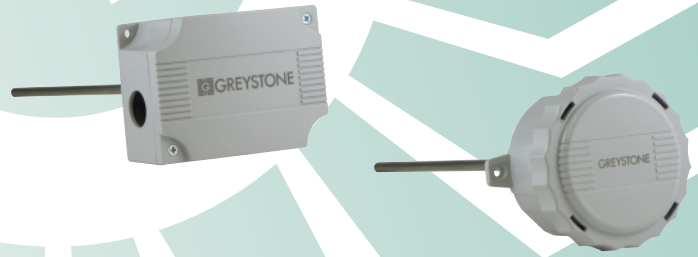




The TE500B single point duct temperature transmitter incorporates a precision platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration.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



SPECIFICATION:

Sensor..... 100 ohm Platinum RTD or
1000 ohm Platinum RTD

Sensor Accuracy..... $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F)

Probe Sensing Range..... -20 to 105°C (-4 to 221°F)

Wire Material..... PVC insulated, parallel bonded
(Type 2, 100 Ω Plat. uses FT4)

Probe Material 304 Series Stainless Steel

Probe Dimension..... 6.35 mm (0.25") Diameter

Output Signal..... 4-20mA current loop, 0-5 vdc, or
0-10 Vdc (factory configured)

Transmitter Accuracy $\pm 0.1\%$ of span, including linearity

4-20 mA loop power Supply 15-35 Vdc or 22-32 Vac

Minimum Current Loop 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

RFI rejection..... Good RFI rejection of normal
frequencies

Protection Circuitry..... Reverse voltage protected and
output limited

Ambient Operating Range..... -40 - 85°C (-40 - 185°F), 0-95% RH
non-condensing

Enclosure ABS, UL94-5VB, IP61 (NEMA 2)
E)-ABS, UL94-5VB, IP65 (NEMA 4X)
(M)- Gal. Steel, IP50 (NEMA 1)
(W)-Cast Aluminum IP64 (NEMA3X)
*In order to maintain the
published NEMA/IP ratings,
properly rated conduit or cable
adapters must be used. gland

Wiring Connections..... Screw terminal block
(14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE500B	Duct Temperature Transmitter

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

CODE	Sensor
2	100 Ω Plat. IEC 751, 385 Alpha, thin film
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)

CODE	Probe Length
A2	50 mm (2")
B2	100 mm (4")
C2	150 mm (6")
D2	200 mm (8")
E2	300 mm (12")
F2	450 mm (18")

CODE	Output
1A	4-20 mA
1D	0-5 Vdc
1E	0-10 Vdc

CODE	Scaled Range
1	0-35 $^{\circ}\text{C}$ (32-95 $^{\circ}\text{F}$)
2	0-50 $^{\circ}\text{C}$ (32-122 $^{\circ}\text{F}$)
3	0-100 $^{\circ}\text{C}$ (32-212 $^{\circ}\text{F}$)
6	-50-50 $^{\circ}\text{C}$ (-58-122 $^{\circ}\text{F}$)
*	Custom ranges available

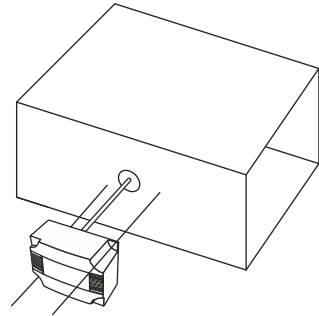
*CUSTOM SCALED TEMPERATURE RANGE

TYPICAL INSTALLATION:

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

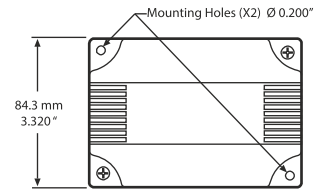
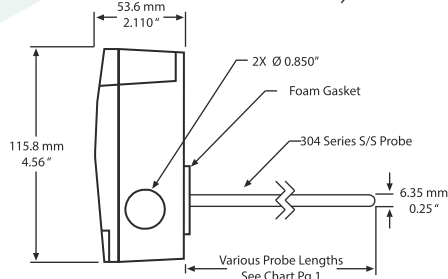
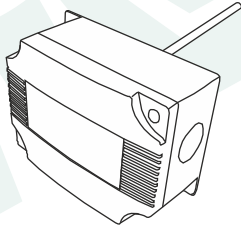
The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

Each enclosure style provides mounting tabs or holes for ease of installation.

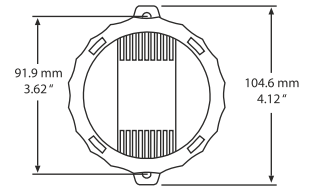
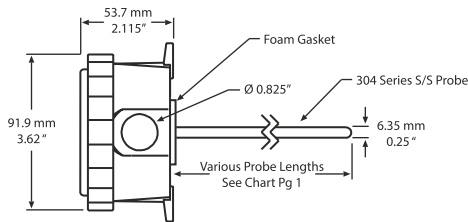
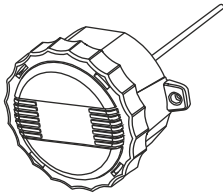


DIMENSIONS:

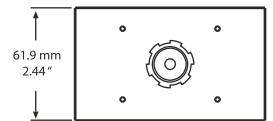
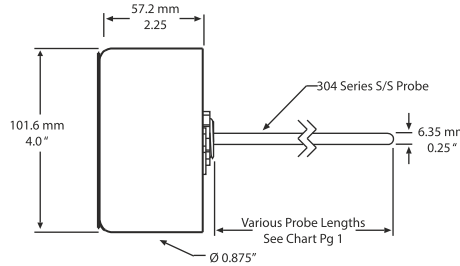
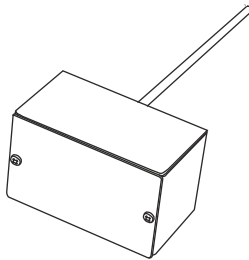
ABS Enclosure



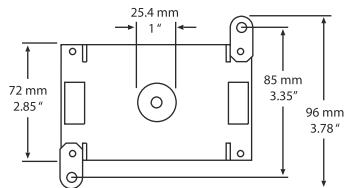
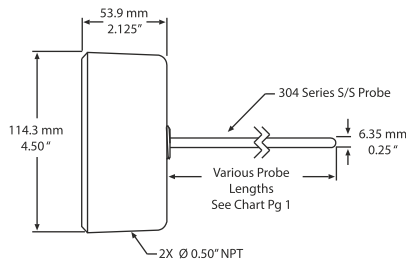
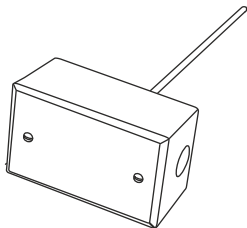
Round ABS Enclosure



Metal Enclosure



Weatherproof Enclosure



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