

STRAP-ON TEMPERATURE TRANSMITTER **TE500E Series**

The TE500E single point strap-on 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 available with various ranges. (See ordering chart)



SPECIFICATION:

| Sensor | 100 obm Platinum RTD or | | | | |
|---|--------------------------------------|--|--|--|--|
| Sensor | 1000 ohm Platuinum RTD | | | | |
| Sensor Accuracy | | | | | |
| Probe Sensing Range | | | | | |
| | PVC insulated, parallel bonded | | | | |
| | $(Type 2, 100\Omega Plat. uses FT4)$ | | | | |
| Wire Length | | | | | |
| Probe Material | | | | | |
| Probe Dimension | | | | | |
| | 4-20mA current loop, 0-5 vdc, or | | | | |
| | 0-10 Vdc (factory configured) | | | | |
| Transmitter Accuracy | | | | | |
| Transmitter Accuracy | linearity | | | | |
| 4-20 mA loop power Supply | | | | | |
| Minimum Current Loop | | | | | |
| Minimum Current Loop | shorted sensor) | | | | |
| Maximum loop Current | 22.5 mA nominal (occurs with | | | | |
| Maximum loop current | | | | | |
| Maximum Loop Load | open sensor) | | | | |
| 0-5 Vdc Power Supply | | | | | |
| 0-10 Vdc Power Supply | | | | | |
| | | | | | |
| Maximum Current (Voltage)5 mA nominal Maximum Output (Voltage)limited to <5.5 Vdc for 0-5 Vdc, | | | | | |
| Maximum Output (voltage) | <10.5 for 0-10 vdc | | | | |
| Input Voltage Effect | | | | | |
| Input voltage Ellect | operating range | | | | |
| RFI rejection | | | | | |
| KFI Tejection | frequencies | | | | |
| Protection Circuitry | Reverse voltage protected and | | | | |
| Protection circuit y | output limited | | | | |
| Ambient Operating Bange | 40 - 85°C (-40 - 185°F), 0-95% RH | | | | |
| Ambient Operating hange | non-condensing | | | | |
| Enclosure | ABS, UL94-5VB, IP61 (NEMA 12) | | | | |
| | (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 | | | | |
| | gland adapters must be used. | | | | |
| Wiring Connections | | | | | |
| winning connections | (14 to 22 AWG) | | | | |
| | | | | | |

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

| MODEL | Product Description | | | | | | | | |
|--------|----------------------------------|---|---|---|--------------------------|--|--|--|--|
| TE500E | Strap-on Temperature Transmitter | | | | | | | | |
| | CODE - E M W | ABS enclosu Round ABS Metal utility | Enclosure (ABS enclosure is standard) ABS enclosure, standard (no code required, leave blank) Round ABS, w/gasketed cover Metal utility box Aluminum weatherproof box | | | | | | |
| | | CODE 2 12 | Sensor 100 Ω Plat. IEC 751, 385 Alpha, thin film 1000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard) | | | | | | |
| | | | CODE A2 B2 C2 D2 E2 | Probe Length 50 mm (2") 100 mm (4") 150 mm (6") 200 mm (8") 300 mm (12") | | | | | |
| | | | F2 | 450 mm (1 CODE 1A | 8") Output 4-20 mA | | | | |
| | | | | 1C 1E | 0-5 Vdc 0-10 Vdc | Scaled Range | | | |
| | | | | | 1 2 3 * | 0-35°C (32-95°F) 0-50°C (32-122°F) 0-100°C (32-212°F) Custom ranges available | | | |
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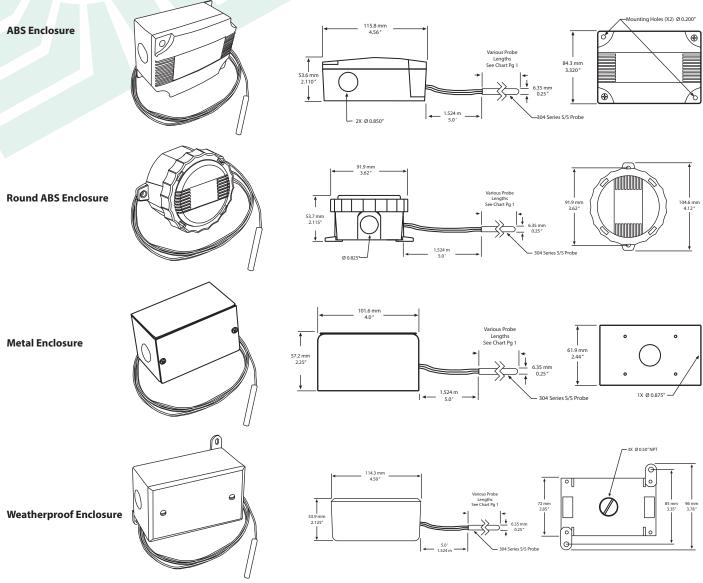
TYPICAL INSTALLATION:

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

For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from pipe. Position probe directly on the pipe and secure using a pipe clamp. For added security, make 1-3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If necessary, the pipe insulation can be re-applied to the pipe over the probe.

DIMENSIONS:



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



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GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM