



GREYSTONE

ENERGY SYSTEMS INC

STRAP-ON TEMPERATURE TRANSMITTER w/ LCD TE511/512E Series

The TE511/512E 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 for measurement of pipe temperatures. A LCD is provided in either °C (511) or °F (512).

SPECIFICATION:

Sensor..... 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
Wire Length..... 1.524 m (5')
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
Power Supply..... **4-20 mA:** 15-35 Vdc or 22-32 Vac
0-5 Vdc: 10-35 Vdc or 10-32 Vac
0-10 Vdc: 15-35 Vdc or 15-32 Vac
Consumption..... **Current:** 22.5 mA Max (On open sensor)
Voltage: 5 mA nominal
Input Voltage Effect..... Negligible over specified operating range
RFI rejection..... Good RFI rejection of normal frequencies
Protection Circuitry..... Reverse voltage protected and output limited
Display Units..... $^{\circ}\text{C}$ (511 Series) or $^{\circ}\text{F}$ (512 Series)
Display Range..... 3 digit for -88.8 to 888 as necessary
Display Size..... 24 mm x 11 mm (0.95" x 0.45")
Ambient Operating Range..... $0 - 70^{\circ}\text{C}$ ($32 - 158^{\circ}\text{F}$), 0-95% RH non-condensing
Enclosure..... ABS, UL94-5VB, IP65 (NEMA 4X)
*In order to maintain the published NEMA/IP ratings, properly rated conduit or cable gland adapters must be used.
Wiring Connections..... Screw terminal block 14 to 22 AWG



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE511E	Strap-on Temperature Transmitter c/w LCD display $^{\circ}\text{C}$
TE512E	Strap-on Temperature Transmitter c/w LCD display $^{\circ}\text{F}$

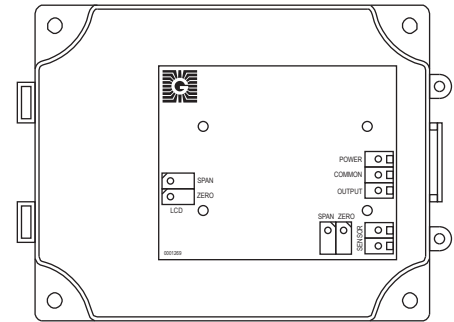
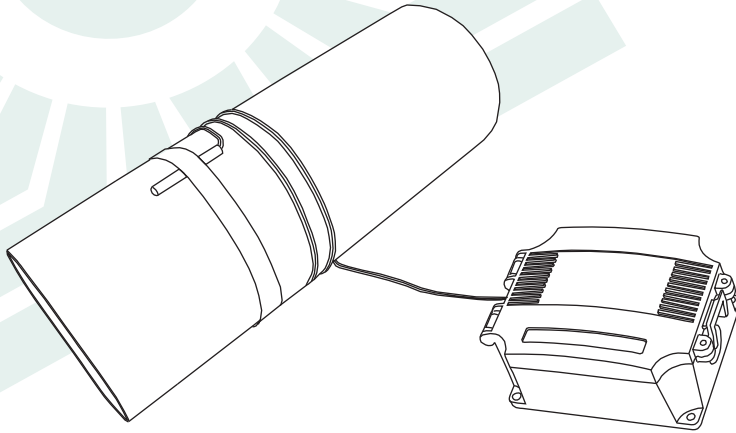
CODE	Probe Length
A2	50 mm (2")
B2	100 mm (4")
C2	150 mm (6")
D2	200 mm (8")
E2	300 mm (12")
F2	450 mm (18")

CODE	Output
A	Current 4-20mA
D	Voltage 0-5 Vdc
E	Voltage 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	$0 - 100^{\circ}\text{C}$ ($32 - 212^{\circ}\text{F}$)
*	Custom ranges available Contact Greystone

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

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.



Technical drawing of the 304 Series S/S Probe, showing front, side, and detail views with dimensions in millimeters (mm) and inches (in).

Front View Dimensions:

- Overall Width: 145 mm (5.7")
- Internal Width: 114.3 mm (4.5")
- Overall Height: 100 mm (3.95")
- Internal Height: 88.9 mm (3.5")
- Probe Length: 1.524 m (5.0')
- Probe Tip Diameter: 6.35 mm (0.25")
- Mounting Holes (X4) $\varnothing 0.200"$
- Various Probe Lengths See Chart Pg 1

Side View Dimensions:

- Overall Width: 64 mm (2.5")

Detail View Dimensions:

- Detail View Diameter: $\varnothing 0.850"$

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We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.

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PS-TE511512E-01-01

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