

# SUBMITTAL

## Strap-on Temperature Transmitter

Part Number:

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE500E	Strap-on Temperature Transmitter

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 Plat. IEC 751, 385 Alpha, thin film
12	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film

CODE	Transmitter Output Signal
1A	Current 4-20mA
1D	Voltage 0-5 Vdc
1E	Voltage 0-10 Vdc

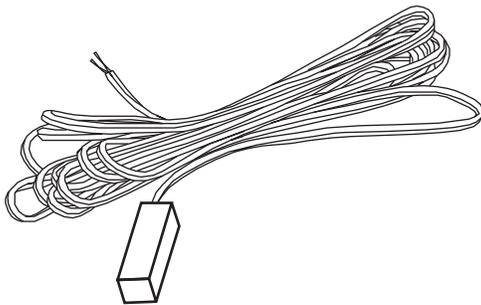
CODE	Transmitter Range
1	0° - 35°C (32° - 95°F)
2	0° - 50°C (32° - 122°F)
3	0° - 100°C (32° - 212°F)
4	50° - 150°C (122° - 302°F)
5	50° - 250°C (122° - 482°F)
6	-50° - 50°C (-58° - 122°F)
*	Custom range, please contact Greystone

TE500G - 12 1A 2

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

**EXAMPLE:** Glass, 4-20 mA, 0°-50 °C

\*Custom Range:



The TE500G single point glass temperature sensor utilizes a precision sensor encapsulated in a 31.75mm L x 9.525mm W x 9.525 mm H (1.25" x .375" x .375") Aluminum probe. Standard wire length is 600 mm (24"). All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. It is available with a variety of enclosures. 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)

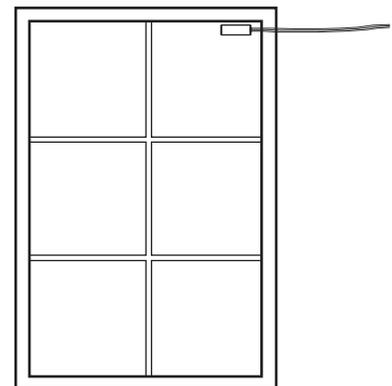
Sensor Operating Temperature Range	-20° to 105 °C (-4° to 221 °F) Higher ranges available, please contact Greystone
Enclosure	<b>Standard</b> - ABS - UL94-V - NEMA 1 (IP23) <b>Round (E)</b> - ABS - NEMA 3 (IP64) <b>Metal (M)</b> - Galvanized steel - NEMA 1 (IP23) <b>Weatherproof (W)</b> - Cast Aluminum - NEMA 4X (IP66)
Cable	24" PVC insulated, parallel bonded (Type 2, 100 ohm platinum uses FT-4)
Probe	Aluminum
Output Signal	<b>Current:</b> 4-20 mA current loop <b>Voltage:</b> 0-5 or 0-10 Vdc (Factory Configured)
Transmitter Accuracy	±0.1% of span, including linearity
Power Supply	<b>Current:</b> 15-35 Vdc or 22-32 Vac <b>Voltage:</b> 0-5 Vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 Vdc or 15-32Vac
Power Consumption	<b>Current:</b> 22.5 mA Max. (Occurs with open sensor) <b>Voltage:</b> 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:

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

Find a suitable location on an exterior window where both the probe can be mounted. On one side apply epoxy compound and press firmly against the glass. Hold in place until the epoxy has set.

### Typical Installation



# GREYSTONE

ACCURACY BY DESIGN

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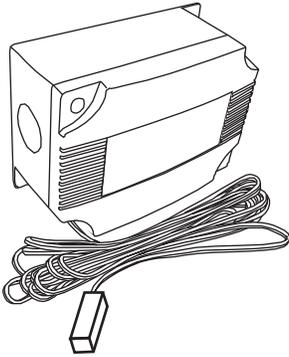
**RoHS**  
COMPLIANT



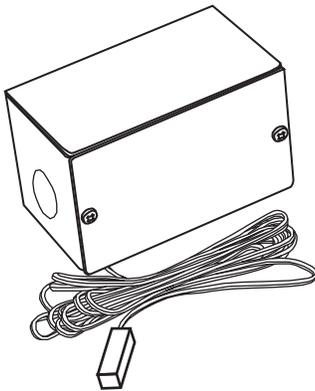
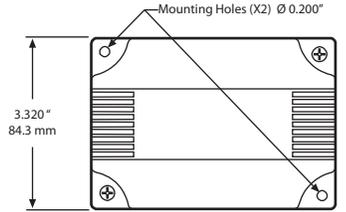
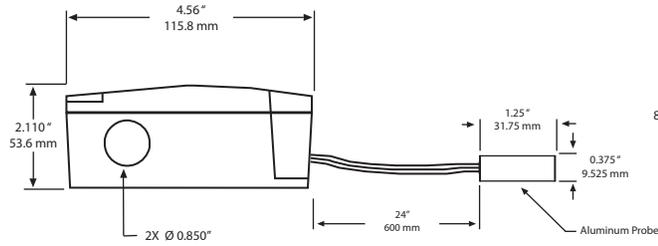
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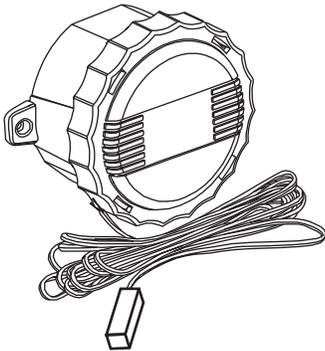
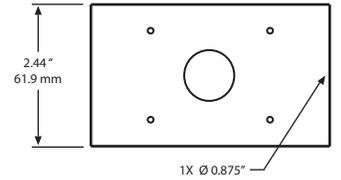
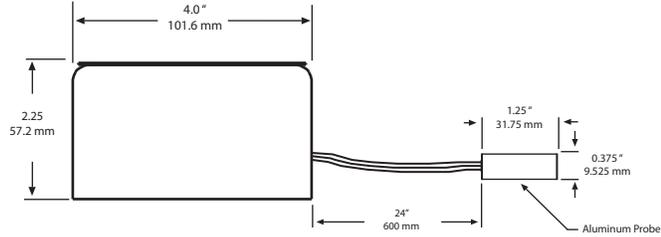
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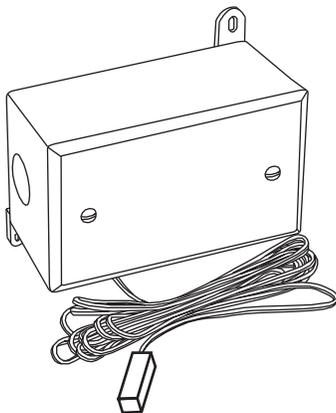
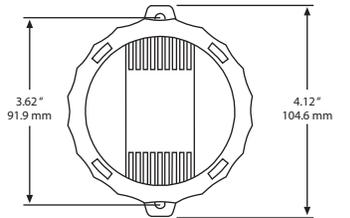
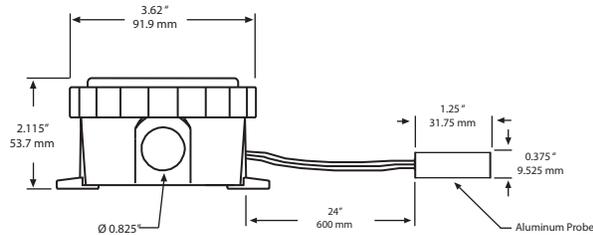
**ABS Enclosure**



**Metal Enclosure (M)**



**Round ABS Enclosure (E)**



**Weatherproof Enclosure (W)**

