



# GREYSTONE

ENERGY SYSTEMS INC

## STRAP-ON TEMPERATURE TRANSMITTER w/ LCD TE511/512ES Series

The TE511/512ES single point strap-on temperature sensor has a precision platinum RTD bonded to a 38.1 mm x 38.1 mm (1.5" x 1.5") aluminum plate and adhered to a 1" compressible foam. A 10" S/S Pipe clamp is provided to secure the assembly to various sizes of pipe. 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.....	±0.3°C (±0.54°F) @ 0°C (32°F)
Probe Sensing Range.....	-20 to 105°C (-4 to 221°F)
Wire Material.....	PVC insulated, parallel bonded
Pipe Clamp.....	25.4 cm (10") Stainless steel
Probe Material.....	Aluminum
Probe Dimension.....	38.1 x 38.1 mm (1.5" x 1.5")
Output Signal.....	4-20mA current loop, 0-5 vdc, or 0-10 Vdc (factory configured)
Transmitter Accuracy.....	±0.1% of span, including linearity
Power Supply.....	<b>4-20 mA:</b> 15-35 Vdc or 22-32 Vac <b>0-5 vdc:</b> 10-35 Vdc or 10-32 Vac <b>0-10 Vdc:</b> 15-35 Vdc or 15-32 Vac
Consumption.....	<b>Current:</b> 22.5 mA Max (On open Sensor) <b>Voltage:</b> 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.....	°C (511 Series) or °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°C (32 - 158°F), 0-95% RH non-condensing *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
TE511ES	Strap-on Temperature Transmitter c/w LCD display °C
TE512ES	Strap-on Temperature Transmitter c/w LCD display °F

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

CODE	Scaled Range
1	0 - 35°C (32 - 95°F)
2	0 - 50°C (32 - 122°F)
3	0 - 100°C (32 - 212°F)
*	Custom ranges available Contact Greystone



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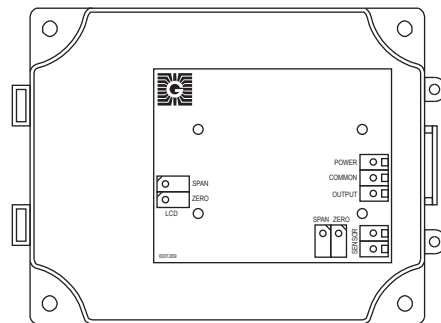
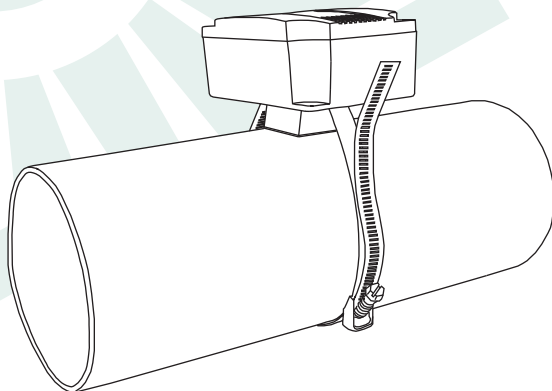
## TYPICAL INSTALLATION:

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

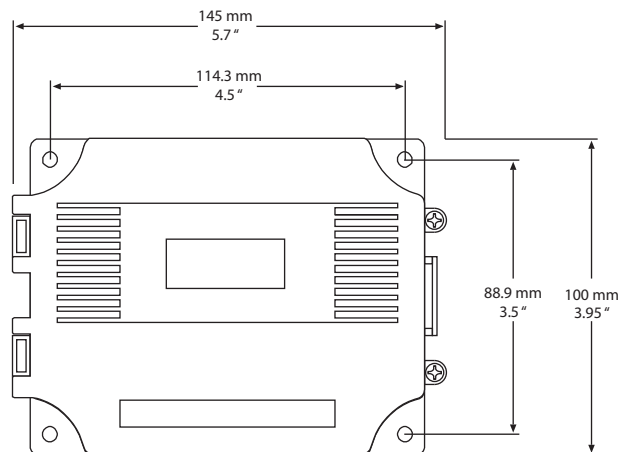
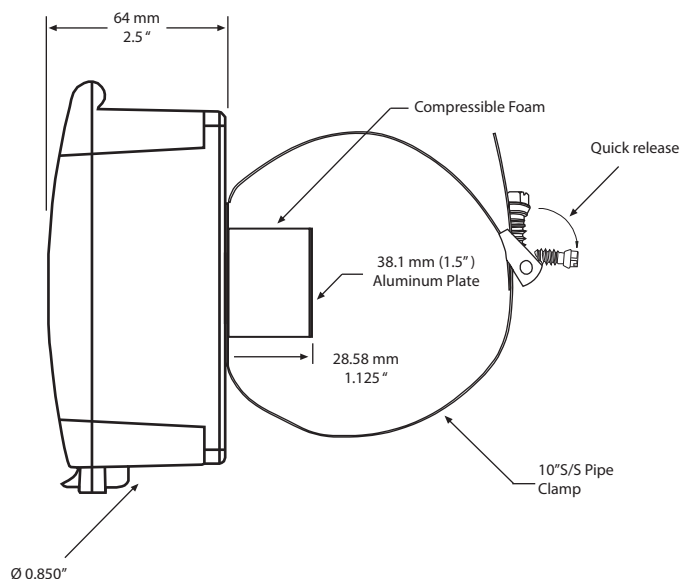
For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

The TE511/512ES series can be mounted directly to various sizes of pipes and secured using a 10" S/S pipe clamp.

If necessary, remove a section of insulation from the pipe. The 10" S/S pipe clamp is a "Quick Release" type and can be separated by moving the tightening screw so that it is perpendicular to the clamp and slide the clamp apart. Position the aluminum plate on the pipe so it makes as much contact with the pipe as possible, wrap the clamp around the pipe, re-assemble and tighten. Any excess clamp may be cut off.



## DIMENSIONS:



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



**GREYSTONE**  
ENERGY SYSTEMS INC

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*Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.*

*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.*

**GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM**