

SUBMITTAL

Part Number:

Strap-on Temperature Transmitter

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	Enclosure (ABS enclosure is standard)
-	ABS enclosure, standard (no code required, leave blank)
W	PVC weatherproof box

CODE	Secondary Sensor (Leave blank if not required)
2	PT100-100 Ω Plat. IEC 751, 385 Alpha, thin film
5	1801 Ω, NTC Thermistor, ±0.2°C
6	3000 Ω, NTC Thermistor, ±0.2°C
7	10,000 Ω, Type 3, NTC Thermistor, ±0.2°C
8	2.252 KΩ, NTC Thermistor, ±0.2°C
9	100,000 Ω, NTC Thermistor, ±0.2°C
12	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel
14	10,000 Ω, Type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor
15	PT3000 PTC Platinum, ±0.2°C
20	20,000 Ω, NTC Thermistor, ±0.2°C
24	10,000 Ω, Type 2, NTC Thermistor, ±0.2°C

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)
*	Custom range, please contact Greystone

TE511ES - - 1A 2

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

EXAMPLE: Strap-on c/w LCD, 4-20mA, 0-50°C

***Custom Range:**

The TE511/512ES single point strap-on temperature sensor has a precision platinum RTD bonded to a 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 room temperatures. A LCD is provided in either °C (511) or °F (512). A secondary sensor option is available.

Sensor Operating Temperature Range	-20 to 105 °C (-4 to 221 °F) Higher ranges available, please contact Greystone
Enclosure	Standard - ABS - UL94-V - NEMA 1 (IP23) Weatherproof (W) - PVC - NEMA 4X (IP66)
Cable	PVC insulated, parallel bonded (100 ohm - Type 2 uses FT-4)
Probe	1.5" Square aluminum plate
Output Signal	Current: 4-20 mA current loop Voltage: 0-5 or 0-10 Vdc (Factory Configured)
Transmitter Accuracy	±0.1% of span, including linearity
Power Supply	Current: 15-35 Vdc or 22-32 Vac Voltage: 0-5 Vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 Vdc or 15-32 Vac
Power Consumption	Current: 22.5 mA Max. (Occurs with open sensor) Voltage: 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)
Display Units	°C (511) or °F (512) - Factory set
Display Range	0° to 100°C typical range for transmitter
Display Resolution	0.1°C or 0.1°F for display of 00.0 to 99.9
Display Accuracy	±0.2°C or ±0.2°F over full range
Display Update Rate	3 times per second
Display Size	24 mm W x 11 mm H (0.95" x 0.45") three digit

Installation:

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

The TE500ES 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 the best contact, wrap the clamp around the pipe and re-assemble and tighten. Any excess clamp may be cut off.

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



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ACCURACY BY DESIGN

Greystone Energy Systems, Inc.
150 English Drive, Moncton, NB
Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014
North America: 1-800-561-5611
e-mail: mail@greystoneenergy.com
www.greystoneenergy.com

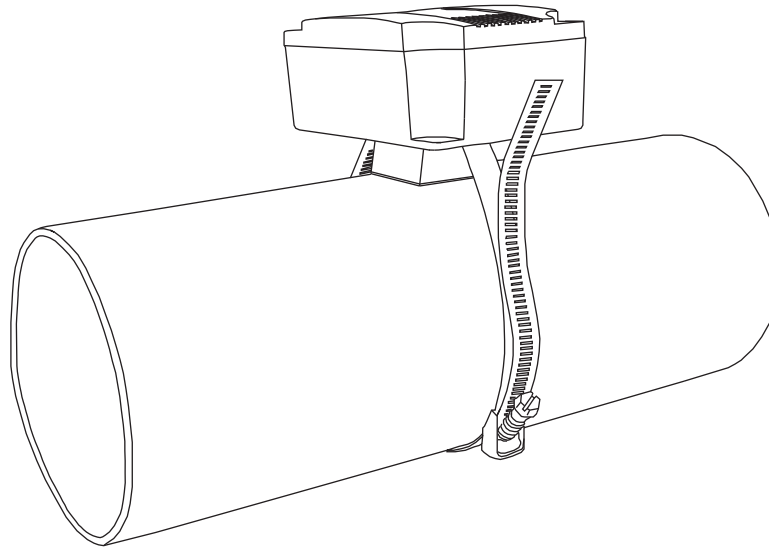
RoHS
COMPLIANT



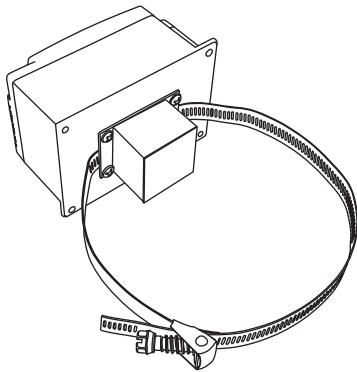


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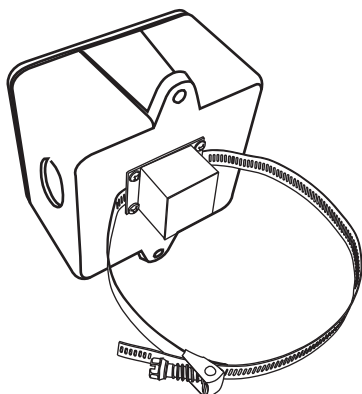
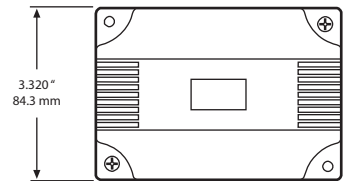
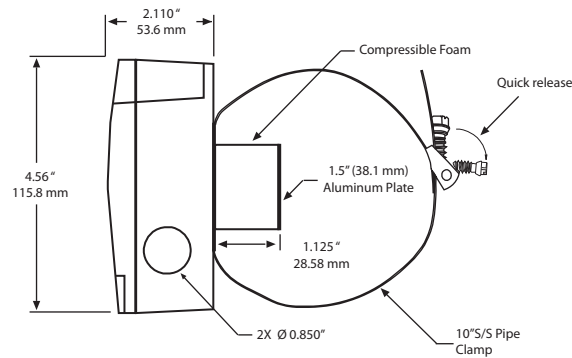
Typical Installation:



Dimensions:



ABS Enclosure



Weatherproof Enclosure

