

# **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						
		<b>CODE</b> 2 12	Sensor 100 Ω Plat. IEC 751, 385 Alpha, thin film 1000 Ω Platinum, IEC 751, 385 Alpha, thin film ( <b>Standard</b> )						
			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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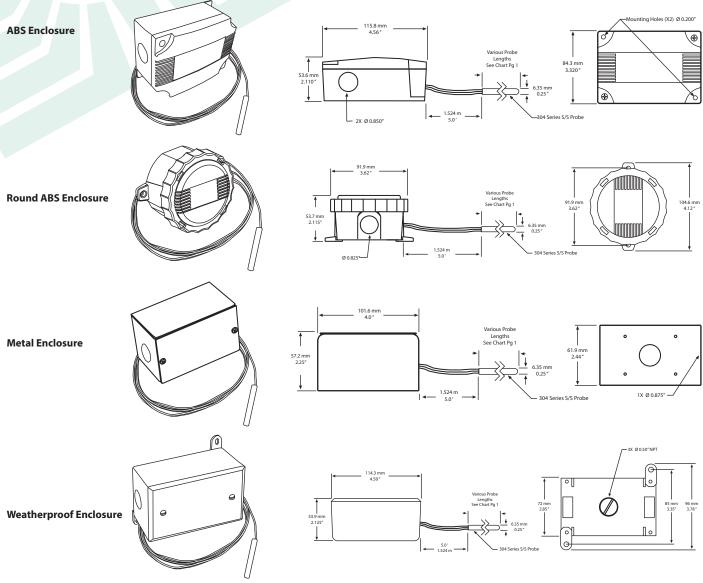
#### **TYPICAL INSTALLATION:**

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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assuring our customers of consistent product reliability.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM