## ROOM TEMPERATURE TRANSMITTERS TE500 Series



**AD)** Designer – Features include a two-piece enclosure that mounts directly to a wall box or on any wall.



**AS)** Surface - A stainless steel plate which can be mounted to a wall box used where tamper- proof or protection is required. Optional tamperproof screws are available.

# Precision temperature control/sensing

#### **FEATURES:**

- Precision RTD sensing element
- Choice of scaled ranges and outputs
- 2 enclosure styles
- · Custom laser etching available



Peace of mind through reliable temperature monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

E500-ROOM-001

### **DESCRIPTION:**

The TE500 is a precision current loop temperature transmitter. It utilizes the platinum RTD and is available in various configurations. The transmitter provides a high accuracy signal with excellent long term stability, low hysteresis and fast response while being virtually immune to power supply noise and input voltage fluctuations. All models operate on a AC or DC power supplies.

#### **SPECIFICATIONS:**

Sensor	. 1000 or 100 ohm Platinum RTD
Sensor Accuracy	. ±0.3°C (±0.54°F) @ 0°C (32°F)
	. 4-20mA current loop, 0-5 vdc,
	0-10 Vdc (factory configured)
Transmitter Accuracy	. ±0.1% of span, including
	linearity
4-20 mA loop Power Supply	. 15-35 Vdc or 22-32 Vac
Minimum Current Loop	. 2 mA nominal (occurs with
	shorted sensor)
Maximum Loop Current	. 22.5 mA nominal (occurs with
	open sensor)
	.>600 ohms
0-5 Vdc Power Supply	. 10-35 Vdc or 10-32 Vac
0-10 Vdc Power Supply	. 15-35 Vdc or 15-32 Vac
Maximum Current (Voltage)	. 5 mA nominal

Maximum Output (Voltage) Limited to <5.5 Vdc for 0-5 Vdc,
<10.5 for 0-10 vdc Input Voltage EffectNegligible over specified
operating range RFI RejectionGood RFI rejection of normal
frequencies Protection Circuitry Reverse voltage protected and
output limited Operating Conditions 0 - 70°C (32 - 158°F),
0-95% RH non-condensing EnclosureWhite ABS (AD) - IP20 (NEMA 1)
Stainless Stèel (AS) - IP50 (NEMÁ 1) Wiring Connections Screw terminal block 14 to 22 AWG)

## DECELET OPPEDING INFORMATIONS

PROD	OCT ORDERING INFORMATION:						
MODEL	EL Product Description						
TE500	Tempera	mperature Transmitter Series					
	CODE Forderson						
	CODE	Designe	Enclosure				
	AD AS						
		CODE	Sensor				
		2 12	100 Ω PI 1000 Ω I	atinum, IE Platinum, I	C 751, 385 Alpha, thin film EC 751, 385 Alpha, thin film <b>(Standard)</b>		
			CODE	Transm	nitter Output		
			1A 1D 1E	Current 4-20mA Voltage 0-5 VDC Voltage 0-10 VDC			
				CODE	Scaled Transmitter Range		
				1 2	0°C - 35°C (32°F - 95°F) 0°C - 50°C (32°F - 122°F)		
					CODE Options		
					TP Tamperproof Screws (AS only)		
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TE500	AD	12	1A	2			

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



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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 leadingedge 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.