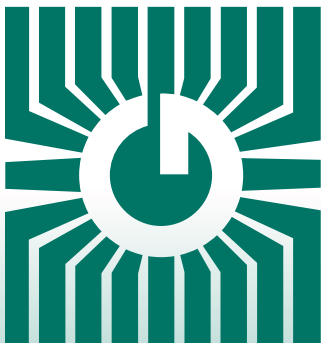


GREYSTONE ENERGY SYSTEMS INC



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

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..... $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F)
 Output Signal..... 4-20mA current loop, 0-5 vdc,
 0-10 Vdc (factory configured)
 Transmitter Accuracy..... $\pm 0.1\%$ 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)
 Maximum Loop Load..... >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 Effect Negligible over specified
 operating range
 RFI Rejection Good RFI rejection of normal
 frequencies
 Protection Circuitry..... Reverse voltage protected and
 output limited
 Operating Conditions $0 - 70^{\circ}\text{C}$ ($32 - 158^{\circ}\text{F}$),
 0-95% RH non-condensing
 Enclosure White ABS (AD) - IP20 (NEMA 1)
 Stainless Steel (AS) - IP50 (NEMA 1)
 Wiring Connections..... Screw terminal block
 14 to 22 AWG)

PRODUCT ORDERING INFORMATION:

MODEL	Product Description
TE500	Temperature Transmitter

CODE	Enclosure
AD	Designer
AS	Stainless Steel Plate

CODE	Sensor
2	100 Ω Platinum, IEC 751, 385 Alpha, thin film
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)

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

CODE	Scaled Transmitter Range
1	$0^{\circ}\text{C} - 35^{\circ}\text{C}$ ($32^{\circ}\text{F} - 95^{\circ}\text{F}$)
2	$0^{\circ}\text{C} - 50^{\circ}\text{C}$ ($32^{\circ}\text{F} - 122^{\circ}\text{F}$)

CODE	Options
TP	Tamperproof Screws (AS only)

TE500	AD	12	1A	2	-
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



GREYSTONE

ENERGY SYSTEMS INC

Greystone Energy Systems, Inc.

150 English Drive, Moncton,
 New Brunswick, 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



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.

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