

SLAB TEMPERATURE TRANSMITTER TE500SL Series

G GREYSTONE

The TE500SL single point slab temperature transmitter utilizes a precision sensor encapsulated in a thermal conductive coating and a transmitter that provides a high precision signal with excellent long term stability, low hysteresis and fast responce is provided. The TE500 SL is used to measure the temperature of a concrete slab. They are available with various wire types and lengths. All probes are constructed to provide excellent heat transfer, fast response and to resist moisture penetration.



SPECIFICATION:

Sensor	100 ohm Platinum RTD or
	1000 ohm Platinum RTD
Sensor Accuracy	±0.3°C (±0.54°F) @ 0°C (32°F)
Probe Detection Range	ZW: -20 to 105°C (-4 to 221°F)
	FT: -20 to 60 °C (-4 to 140 °F)
	MP: -20 to 80 °C (-4 to 176 °F)
Wire Material	ZW: PVC Zip wire, 22 AWG
	FT: Plenum rated FT-6, 22 AWG
	MP: EPC Moisture proof, 22AWG
Wire length	Various - See Ordering Info
Output Signal	4-20mA current loop, 0-5 vcc, or
	0-10 Vcc (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 Current Loop	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 Vcc Power Supply	15-35 Vdc or 15-32 Vac
Maximum Current (Voltage)	5 mA nominal
Maximum Output (Voltage)	limited at <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°C (32 - 158°F), 0-95% RH
	non-condensing
Enclosure	ABS, UL94-5VB, IP61 (NEMA 2)
	(E) - ABS,UL94-5VB, IP65 (NEMA 4X)
	(M) - Gal. Steel, IP50 (NEMA 1)
	(W) - Cast Alum. IP64 (NEMA3X)
Wire Connections	Screw terminal block
	(14 to 22 AWG)

PRODUCT ORDERING INFORMATION:

MODEL	Product Description
TE500SL	Slab Temperature Transmitte

CODE Enclosure (ABS enclosure is standard)

- M E W	ABS enclosure (rios cinclosare is standard) Metal utility box Round ABS c/w gasket cover Aluminum Weatherproof Box						
	CODE 2 12		atinum, IEC 751, 385 Alpha, thin film Iatinum, IEC 751, 385 Alpha, thin film (Standard)				
		CODE ZW FT MP	Wire Type PVC Zip Wire - 22 AWG (1000 Ω Platinum Only) Plenum rated FT-6 - 22 AWG Moisture Proof Burial - 20 AWG				
			CODE 5 10 25 50 100 **	Wire Length 5' (1.5 m) 10' (3 m) 25' (7.6 m) 50' (15.25 m) 100' (30.5 m) Custom, Please contact Greystone			
				CODE 1A 1C 1E	Output 4-20 mA 0-5 Vdc 0-10 Vdc		
I				v	CODE 1 2 *	Scaled Range 0-35°C (32-95°F) 0-50°C (32-122°F) Custom ranges available	



TYPICAL INSTALLATION:

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

Typically a predetermined area is defined where the temperature reading is required. During concrete installation a sufficent length of conduit or copper tubing is imbedded from this point to an area that will be accessible once complete.

At the entrance to the sensor chamber, unravel the TE500SL and carefully insert sensor and feed into chamber until the chamber end is reached.

ENERGY SYSTEMS INC

Greystone Energy Systems, Inc.

New Brunswick, Canada E1E 4G7

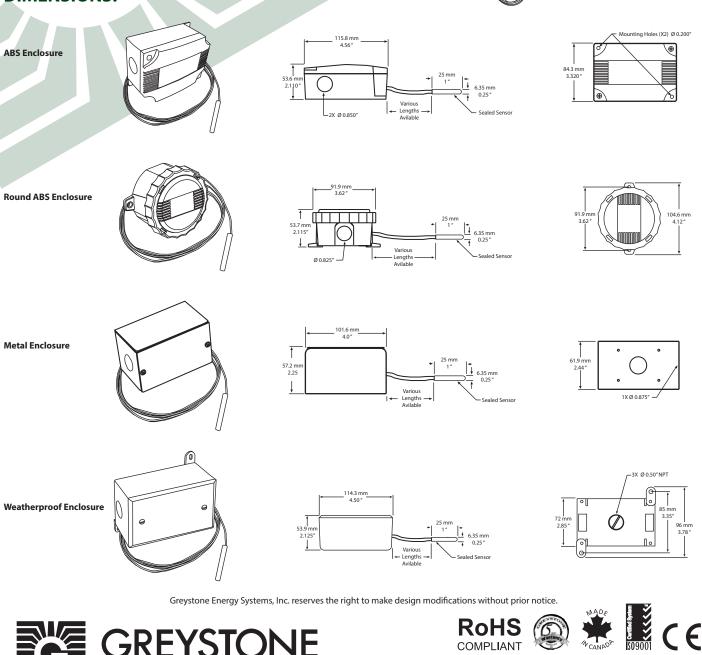
North America: 1-800-561-5611

(506) 853-3057 Fax: (506) 853-6014

e-mail: mail@greystoneenergy.com www.greystoneenergy.com

150 English Drive, Moncton,

DIMENSIONS:



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.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

Sensor chamber previously embedded in slab