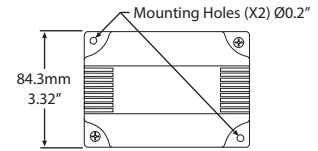
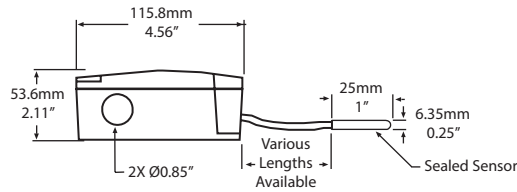




SLAB TEMPERATURE TRANSMITTER



TE500SL SERIES

PRODUCT DESCRIPTION

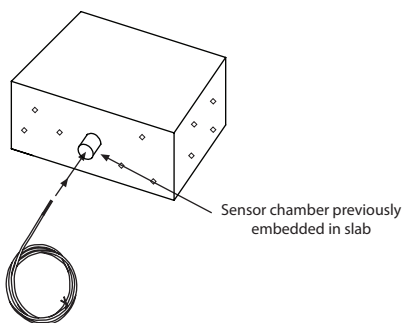
The TE500SL single point slab temperature transmitter utilizes a precision sensor encapsulated in a thermal conductive coating and a transmitter that provides a high precision signal with excellent long term stability, low hysteresis and fast response is provided. The TE500SL is used to measure the temperature 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 resist moisture penetration.

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 sufficient 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.



SPECIFICATIONS

SENSOR TYPE	100Ω Platinum RTD or 1000Ω 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, 22 AWG
WIRE LENGTH	Various - See ordering information
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 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 CURRENT LOOP	22.5 mA nominal (occurs with open sensor)
MAXIMUM LOOP LOAD	>600Ω
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 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 to 70°C (32 to 158°F), 0-95 %RH non-condensing
ENCLOSURE	A: ABS, UL94-5VB, IP61 (NEMA 2) E: ABS, UL94-5VB, IP65 (NEMA 4X) M: Galvanized Steel, IP50 (NEMA 1) W: Cast Aluminum, IP64 (NEMA 3X)
WIRE CONNECTIONS	Screw terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada

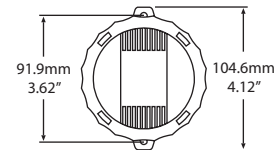
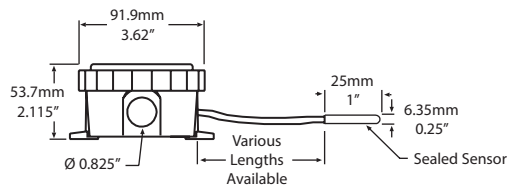
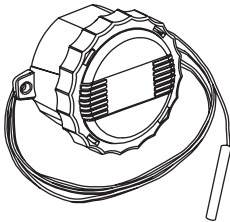


ORDERING			PART NUMBER
PRODUCT	TE500SL	Slab Temperature Transmitter	TE500SL
ENCLOSURE (ABS ENCLOSURE IS STANDARD)	- M E W	ABS enclosure, standard (no code needed, leave blank) Metal utility box Round ABS c/w gasket cover Aluminum weatherproof box	
SENSOR	2 12	100 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Platinum, IEC 751, 385 Alpha, thin film	
WIRE TYPE	ZW FT MP	PVC Zip Wire - 22 AWG (Not available on Typ 2, 100 Ω Platinum) Plenum rated FT-6 - 22 AWG Moisture Proof Burial - 20 AWG	
WIRE LENGTH	5 10 25 50 100 **	1.5m (5') 3m (10') 7.6m (25') 15.25m (50') 30.5m (100') Custom, please contact Greystone	
OUTPUT	1A 1C 1E	4-20 mA 0-5 Vdc 0-10 Vdc	
SCALED RANGE	1 2 *	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) Custom ranges available	

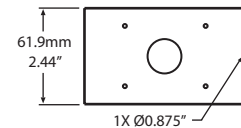
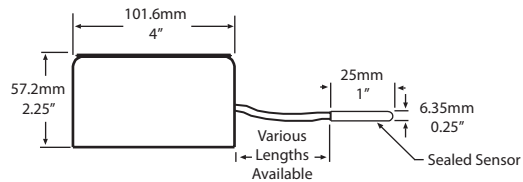
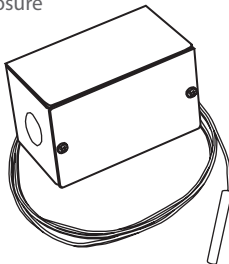
NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

ENCLOSURE OPTIONS

Round ABS Enclosure



Metal Enclosure



Weatherproof Enclosure

