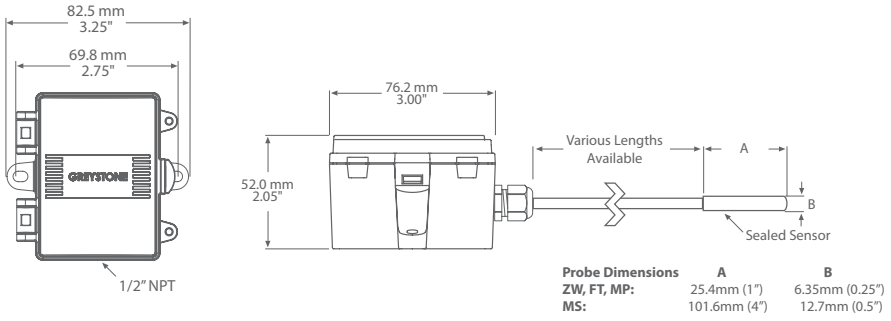
GREYSTONE
ENERGY SYSTEMS INC

SLAB TEMPERATURE TRANSMITTER



TXSL SERIES

PRODUCT DESCRIPTION

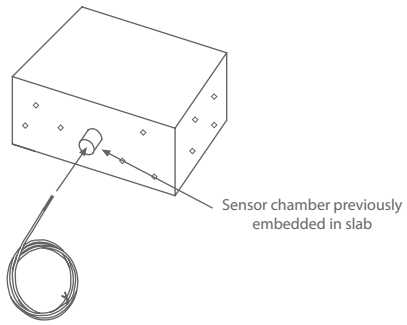
The TXSL single point slab temperature transmitter utilizes a precision sensor encapsulated in a thermal conductive coating (ZW, FT & MP) and used to measure the temperature of a concrete slab. The MS is encapsulated and potted in a 12.7 mm (0.5")D X 101.5 mm (4")L double walled, S/S probe that allows for total liquid submersion. All probes are constructed to provide excellent heat transfer, fast response and to resist and are available with various wire types and lengths. A transmitter that provides a high precision signal with excellent long term stability, low hysteresis and fast response is provided.

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 embedded from this point to an area that will be accessible once complete.

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

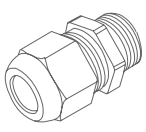


SPECIFICATIONS

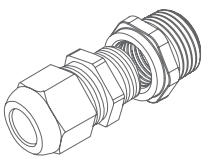
SENSOR TYPE	1000 Ω platinum RTD
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)
PROBE SENSING RANGE	**ZW:** -40 to 100°C (-40 to 212°F) **FT:** -20 to 60°C (-4 to 140°F) **MP/MS:** -20 to 80 °C (-4 to 176 °F)
WIRE MATERIAL	**ZW:** PVC zip wire, 22 AWG **FT:** Plenum rated, FT-6, 22 AWG **MP:** EPC moisture proof, 20AWG **MS:** EPC moisture submersible, 20AWG
WIRE LENGTH	Numerous standard lengths available. See ordering chart
PROBE MATERIAL	**ZW/FT/MP:** Thermal conductive coating **MS:** Double walled, 304 Stainless Steel
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	±0.1% of span, including linearity
OUTPUT DRIVE @ 24 VDC	**Current:** 600 mA maximum **Voltage:** 10 KΩ minimum
POWER SUPPLY	**0-5 Vdc:** 10-35 Vdc or 10-28 Vac **0-10 Vdc:** 15-35 Vdc or 15-28 Vac **4-20 mA:** 15-35 Vdc (loop-powered) or 22-28 Vac
CURRENT CONSUMPTION	**Current:** 20 mA **Voltage:** 5 mA
MAXIMUM CURRENT (VOLTAGE)	5 mA nominal
MAXIMUM OUTPUT (VOLTAGE)	Limited to <5.5 Vdc or 0-5 Vdc, <10.5 for 0-10 Vdc
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 5 to 95 %RH non-condensing
ENCLOSURE	**A:** ABS, UL94-V0, IP65 (NEMA 4X) **E:** Same as A, with thread adapter (1/2" NPT to M16), and cable gland fitting
TERMINATION	Screw terminal block (14 to 22 AWG)
APPROVALS	CE
COUNTRY OF ORIGIN	Canada

NOTE: This product is factory calibrated and any field adjustment will void the warranty.

ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING



THREAD ADAPTER 1/2" NPT TO M16

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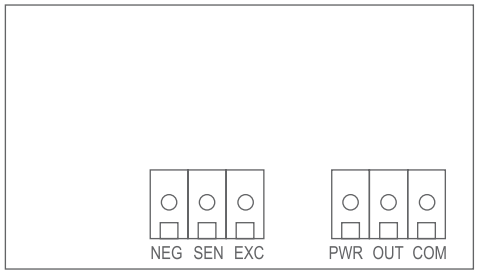
WIRING INFORMATION



TERMINAL	FUNCTION
PWR	Power Supply
OUT	Analog Output
COM	Common
NEG	
SEN	Temperature Sensor Input
EXC	

ORDERING

PRODUCT	**TXSL**	Slab Temperature Transmitter
ENCLOSURE	**A** **E**	ABS, with hinged and gasketed cover Same as A, with thread adapter (1/2" NPT to M16) and cable gland fitting
SENSOR	**12**	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
WIRE TYPE	**ZW** **FT** **MP** **MS**	PVC Zip Wire - 22 AWG Plenum Rated FT-6 - 22 AWG EPC Moisture Proof Burial - 20 AWG EPC Moisture Proof Submersible - 20AWG
WIRE LENGTH	**001** **003** **005** **010** **020** **030** ***	1m (3.3') 3 m (9.8') 5 m (16.4') 10 m (32.8') 20 m (65.6') 30 m (98.5') Custom lengths available
OUTPUT	**A** **D** **E**	4-20 mA 0-5 Vdc 0-10 Vdc
SCALED RANGE	**001** **002** ***	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) Custom ranges available

PART NUMBER

TXSL

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

RoHS COMPLIANT

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