

HIGH ACCURACY SLAB TEMPERATURE TRANSMITTER HATXSL Series



PRODUCT SELECTION INFORMATION:

MODEL Product Description

HATXSL High Accuracy Slab Temperature Transmitter

PART NUMBER SELECTED

The HATXSL single point slab temperature transmitter utilizes a high accuracy 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 HATXSL 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
Accuracy	.RTD Class A: ±0.15°C @ 0°C
	RTD 1/3 DIN: ±0.1°C @ 0°C RTD 1/10 DIN: ±0.03°C @ 0°C
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 MPS: EPC Moisture proof, 20AWG
Wire length	3
	.MPS: Double walled, 304 S/S 12.7 mm D X 101.5 mm L(0.5" X 4")
Output Signal	4-20mA 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	
Minimum Current Loop	shorted sensor)
	22.5 mA nominal (occurs with open sensor)
Maximum Loop Load	>600 ohms
0-5 Vdc Power Supply	
0-10 Vcc Power Supply	.15-35 Vdc or 15-32 Vac
Maximum Current (Voltage)	
	.limited at <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 vdc
Input Voltage Effect	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	.(A) ABS, UL94-5VB, IP61 (NEMA 2) (B)-ABS, UL94-5VB, IP65 (NEMA 4X) (C)- PVC, IP65 (NEMA 4X)
Wire Connections	(-)

CODE **Enclosure** ABS Enclosure В Round ABS, with gasket cover PVC Weatherproof c CODE 18 1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class A 48 1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 $\Omega\,$ Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/10 DIN 22 1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A 41 49 1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN 50 1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN 38 100 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A 100 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN 53 $100\,\Omega$ Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN CODE Wire Type zw PVC Zip Wire - 22 AWG (Sensors 18, 22 & 48 Only) FT Plenum rated FT-6 - 22 AWG MP Moisture Proof Burial - 20 AWG Moisture Proof Submersible - 20 AWG CODE Wire Length 5' (1.5 m) 10' (3 m) 10 25 25' (7.6 m) 50 50' (15.25 m) 100 100' (30.5 m) Custom, Please contact Greystone CODE Output 4-20 mA C 0-5 Vdc 0-10 Vdc CODE **Scaled Range** 0-35°C (32-95°F) 2 0-50°C (32-122°F) Custom ranges available

*CUSTOM SCALED TEMPERATURE RANGE











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TYPICAL INSTALLATION:

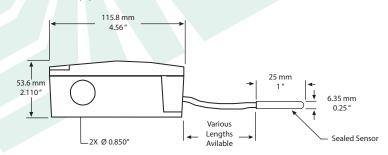
For complete installation and wiring details, please refer to the product installation instructions.

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 HATXSL and carefully insert sensor and feed into chamber until the chamber end is reached.

DIMENSIONS:

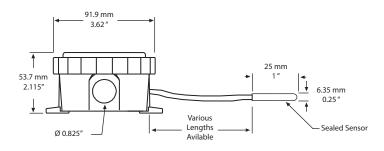
ABS Enclosure (A)

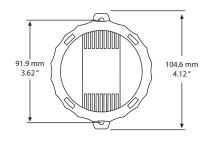


84.3 mm 3.320"

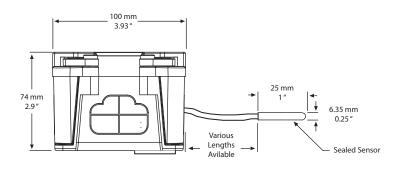
Sensor chamber previously embedded in slab

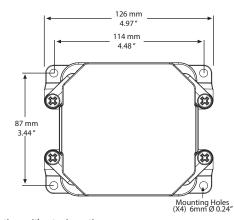
Round ABS Enclosure (B)





PVC Enclosure (C)





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.