



HIGH LIMIT SLAB TEMPERATURE THERMOSTAT TTHSL Series

The TTHSL single point slab temperature thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The TTHSL 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. Two enclosure styles are available.



SPECIFICATION:

Power Supply.....	12 to 28 Vac/dc
Consumption.....	50 mA max
Relay Contacts.....	SPDT, Form C contacts (N.O. and N.C.) 5 Amps @ 30 Vdc/250 Vac resistive 1.5 Amps @ 30 Vdc/250 Vac inductive
Relay Action.....	Activates on temperature rise
Setpoint Operation.....	Single-turn knob-pot on pcb
Adjustable Setpoint.....	38 -104 °C (100 - 220°F)
Setpoint Temperature Differential.....	Low/Mid/High jumper selectable 1.1/2.8/5.6 °C (2/5/10 °F)
Temperature Sensor.....	10K ohm curve matched precision thermistor
Sensor Accuracy.....	±0.2°C (±0.36°F), 0 - 70°C (32 - 158°F)
Probe Sensing Range.....	ZW: -20 - 105°C (-4 - 221°F) FT: -20 - 60°C (-4 - 140 °F) MP/MPS: -20 - 80 °C (-4 - 176 °F)
Wire Material.....	ZW: PVC Zip wire, 22 AWG FT: Plenum rated FT-6, 22 AWG MP: EPC Moisture proof, 20AWG MPS: EPC Moisture proof, 20AWG
Probe Material.....	MPS: Double walled, 304 S/S
Probe Dimension.....	12.7 mm D X 101.5 mm L(0.5" X 4")
Operating Conditions.....	-10 - 50°C (14 - 122°F), 5 to 95% RH non-condensing
Storage Conditions.....	-30 - 70°C (-22 - 158°F), 5 to 95%RH, non-condensing
Enclosure.....	(A) ABS, UL94-5VB, IP61 (NEMA 2) (D)-ABS, UL94-5VB, IP65 (NEMA 4X)
Wiring Connections.....	Screw terminal block (14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TTHSL	High Limit Slab Temperature Thermostat

CODE	Enclosure
A24	ABS Enclosure
D24	ABS Enclosure, Hinged Cover

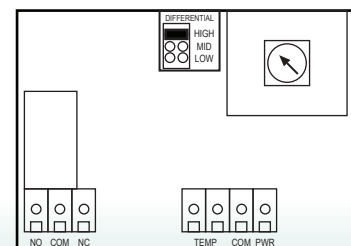
CODE	Adjustable Setpoint Range	Applicable Wire Type
1	38 -104°C (100-220°F)	ZW
2	38 -60°C (100-140°F)	ALL

CODE	Wire Type
ZW	PVC Zip Wire - 22 AWG
FT	Plenum rated FT-6 - 22 AWG
MP	Moisture Proof Burial - 20 AWG
MPS	Moisture Proof Submersible - 20 AWG

CODE	Wire Length
5	5' (1.5 m)
10	10' (3 m)
25	25' (7.6 m)
50	50' (15.25 m)
100	100' (30.5 m)
**	Custom, Please contact Greystone

WIRING:

Terminal	Function
PWR	Power Supply
COM	Power Supply Common
TEMP (2)	Temperature Sensor Input
NO	Relay Output - Normally Open Contact
COM	Relay Common
NC	Relay Output - Normally Closed Contact



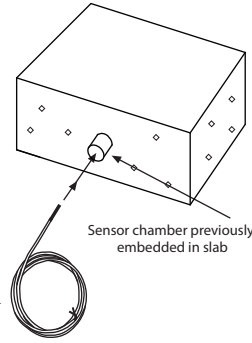
TYPICAL INSTALLATION:

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

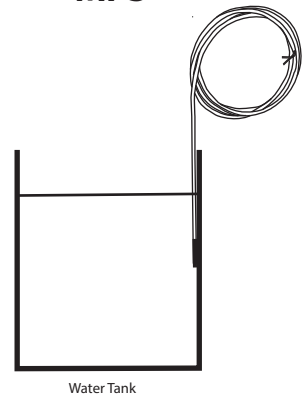
ZW, FT & MP: Typically a predetermined area is defined where the temperature reading is required. During concrete installation a sufficient length of conduit or copper tubing is imbedded from this point to an area that will be accessible once complete. At the entrance to the sensor chamber, unravel the TTSHL and carefully insert sensor and feed into chamber until the chamber end is reached.

MPS: Unravel the sensor and lower the probe in the tank until below the liquid line or at desired depth. Secure cable to maintain depth. The probe may also be attached to the tank wall with some form of clamp at desired depth.

ZW, FT or MP

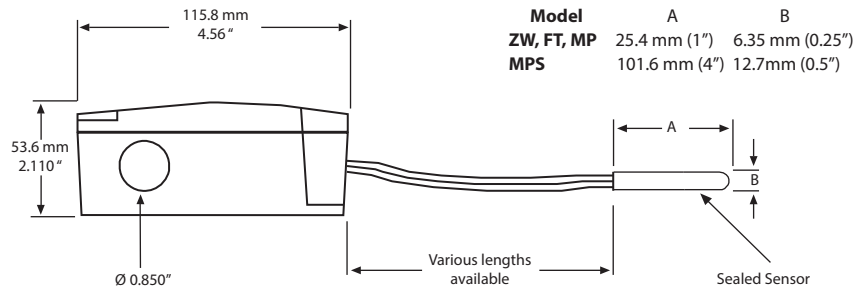
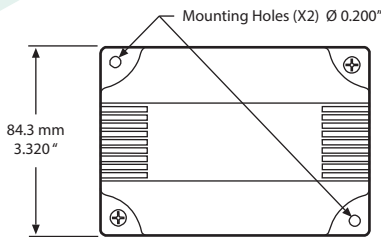


MPS

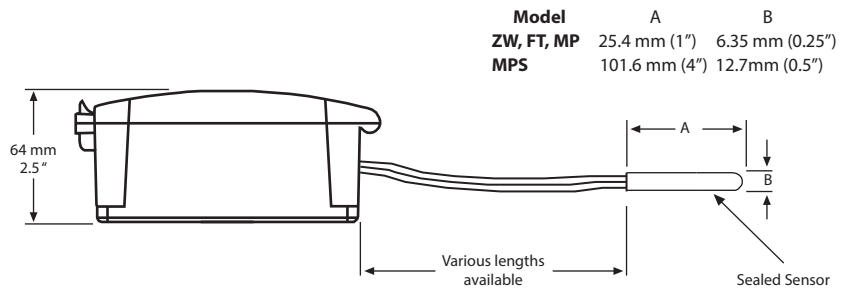
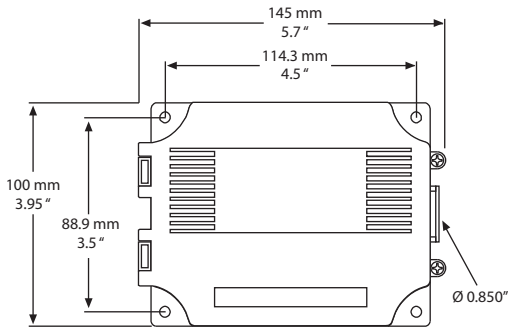


DIMENSIONS:

ABS Enclosure (A)



Hinged ABS Enclosure (D)



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.

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM