



# GREYSTONE ENERGY SYSTEMS INC

## SLAB TEMPERATURE SENSOR TE200SL Series

The TE200SL single point slab temperature sensor utilizes a precision sensor encapsulated in a thermal conductive coating (ZW, FT & MP) and used to measure the temperature of a concrete slab. The MPS 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. They are available with various sensor types, wire types and lengths. All probes are constructed to provide excellent heat transfer, fast response and to resist moisture penetration.

### SPECIFICATION:

Sensor Type:..... Thermistor or RTD  
See Ordering Chart  
Temperature Range:.. **ZW:** -20 to 105°C (-4 to 221°F)  
**FT:** -20 to 60 °C (-4 to 140 °F)  
**MP/MPS:** -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  
**MPS:** EPC Moisture proof, 20AWG  
Probe:..... **MPS:** Double walled, 304 S/S  
12.7 mm D X 101.5 mm L(0.5" X 4")  
Termination:..... Pigtail 2 or 3 wire

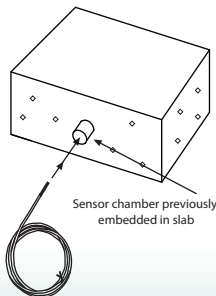
### TYPICAL INSTALLATION:

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

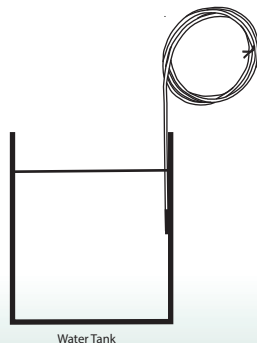
**ZW, FT & MP:** Typically a predetermined area is defined where the temperature reading is required. During concrete installation a sufficient length of conduit or copper tubing is imbedded from this point to an area that will be accessible once complete. At the entrance to the sensor chamber, unravel the TE200SL 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



### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE200SL	Slab Temperature Sensor

CODE	Sensor
2	100 Ω Platinum, IEC 751, 385 Alpha, thin film
5	1801 Ω, NTC Thermistor, ±0.2 C
6	3000 Ω, NTC Thermistor, ±0.2 C
7	10,000 Ω, type 3, NTC Thermistor, ±0.2 C
8	2.252K Ω, NTC Thermistor, ±0.2 C
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel, Class B, DIN 43760
14	10,000 Ω, type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
20	20,000 Ω, NTC Thermistor, ±0.2 C
24	10,000 Ω, type 2, NTC Thermistor, ±0.2 C

CODE	Wire Type
ZW	PVC Zip Wire - 22 AWG (Not available on Type 2, 100 Ω Platinum)
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

Custom Description:

