



## REMOTE PROBE IMMERSION TEMPERATURE TRANSMITTER with LCD TE511-512CR Series

The TE511/512CR single point immersion temperature transmitter with remote probe for chilled water applications. It incorporates a precision platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resist moisture penetration. The transmitter provides a high accuracy signal with excellent long term stability, low hysteresis and fast response. It is available with various scaled ranges (See Product Selection Information). The LCD is provided in either °C (511) or °F (512).



### SPECIFICATION:

Sensor.....1000 ohm Platinum RTD  
 Sensor Accuracy .....±0.3°C (±0.54°F) @ 0°C (32°F)  
 Probe Sensing Range.....-20 to 60°C (-4 to 140°F)  
 Wire Material.....FT-6 Rated Plenum Cable  
 22 AWG  
 Wire Length.....1.524 m (5')  
 Probe Material.....304 Series Stainless Steel  
 Probe Dimension.....6.35 mm (0.25") Diameter  
 Fitting Thread Size.....1/2" NPT  
 Output Signal.....4-20mA current loop, 0-5 Vdc,  
 or 0-10 Vdc (factory configured)  
 Transmitter Accuracy.....±0.2% of span, including  
 linearity  
 Power Supply.....15-30 Vdc or 12-28 Vac  
 Consumption.....**Current:** 20 mA Max  
**Voltage:** 11 mA nominal  
 Input Voltage Effect.....Negligible over specified  
 operating range  
 Protection Circuitry.....Reverse voltage protected  
 and output limited  
 Display Units.....°C (511 Series) or °F (512 Series)  
 Display Range.....3 digit for -88.8 to 888 as  
 necessary  
 Display Size.....38.1 mm x 16.5 mm  
 (1.5" x 0.65")  
 Ambient Operating Range.....0 - 50°C (32 - 122°F),  
 0-95% RH non-condensing  
 Enclosure.....ABS, UL94-5VB, IP65 (NEMA 4X)  
 Wiring Connections.....Screw terminal block  
 (14 to 22 AWG)

### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE511CR	Remote Probe Immersion Temperature Transmitter with LCD Display °C
TE512CR	Remote Probe Immersion Temperature Transmitter with LCD Display °F

CODE	Probe Length
A2	50 mm (2")
B2	100 mm (4")
C2	150 mm (6")
D2	200 mm (8")
E2	300 mm (12")
F2	450 mm (18")

CODE	Output
A	Current 4-20 mA
D	Voltage 0-5 Vdc
E	Voltage 0-10 Vdc

CODE	Scaled Range
1	0 - 35°C (32 - 95°F)
2	0 - 50°C (32 - 122°F)
3	0 - 100°C (32 - 212°F)
*	Custom ranges available Contact Greystone

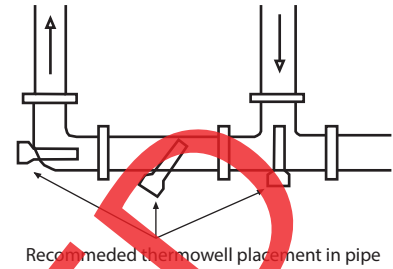
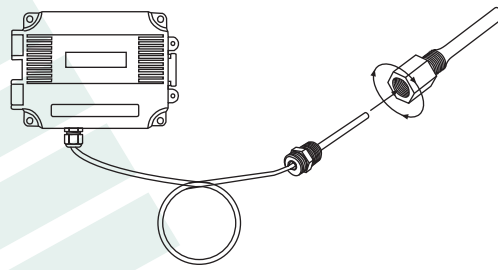
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## TYPICAL INSTALLATION:

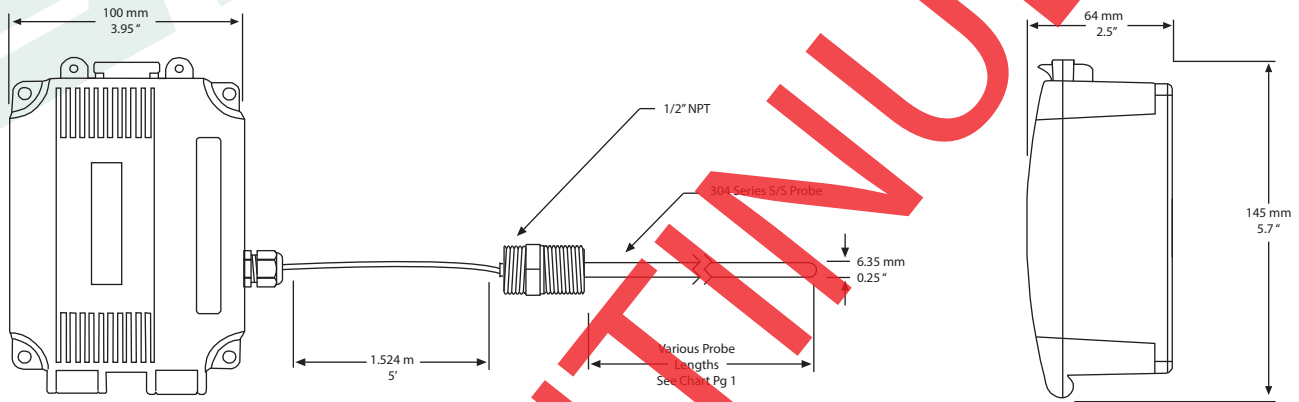
For complete installation and wiring details, please refer to the product installation instructions.

**NOTE: All immersion sensors require a thermowell (sold separately)**

The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.



## DIMENSIONS:

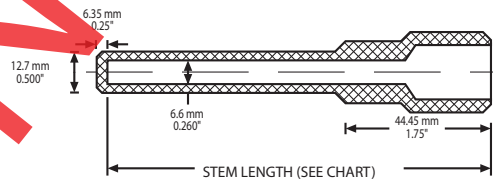
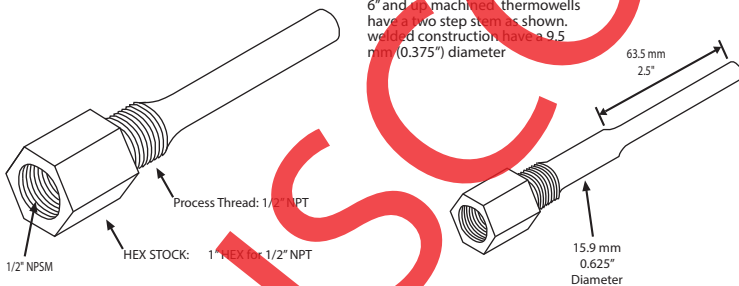


## ACCESSORIES:



NOTE:

6" and up machined thermowells have a two step stem as shown. welded construction have a 9.5 mm (0.375") diameter



### THERMOWELL PART NUMBERING SYSTEM

SERIES NUMBER	NPT THREAD SIZE	MATERIAL	STEM LENGTH	CONSTRUCTION
T1	1/2"	P - 304 SS R - 316 SS	2" 4" 6" 8" 12" 18"	- MACHINED W - WELDED (12" and up only)

EXAMPLE: T1 1/2 P 4  
4" 304 STAINLESS THERMOWELL  
WITH 1/2" NPT PROCESS THREAD

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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 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