



GREYSTONE ENERGY SYSTEMS INC

IMMERSION TEMPERATURE TRANSMITTER w/ LCD TE511-512C Series

The TE511/512C single point immersion temperature transmitter 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 105°C (-4 to 221°F)
Wire Material	PVC insulated, parallel bonded
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	±0.1% of span, including linearity
Power Supply	4-20 mA: 15-35 Vdc or 22-32 Vac 0-5 Vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 Vdc or 15-32 Vac
Consumption:	Current: 22.5 mA Max (On open sensor) Voltage: 5 mA nominal
Input Voltage Effect	Negligible over specified operating range
RFI rejection	Good RFI rejection of normal frequencies
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	24 mm x 11 mm (0.95" x 0.45")
Ambient Range	0 - 70°C (32 - 158°F), 0-95% RH non-condensing
Enclosure	ABS, UL94V, IP65 (NEMA 4X)
Wiring Connections	Screw terminal block (14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE511C	Immersion Temperature Transmitter, c/w LCD Display °C
TE512C	Immersion Temperature Transmitter, c/w 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	Transmitter Output Signal
A	Current 4-20 mA
D	Voltage 0-5 Vdc
E	Voltage 0-10 Vdc

CODE	Transmitter 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

TE511C	B2	A	3
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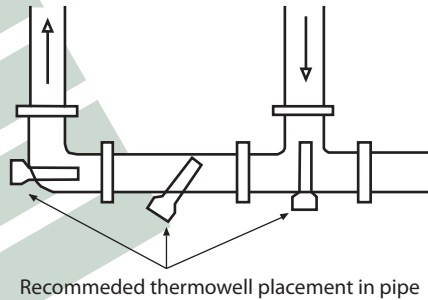
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

TYPICAL INSTALLATION:

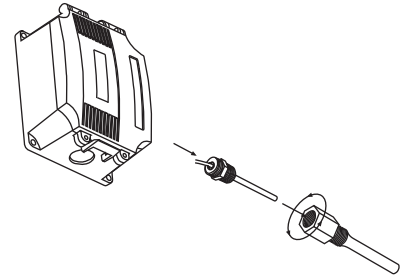
For complete installation and wiring details, please refer to the product installation instructions.

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

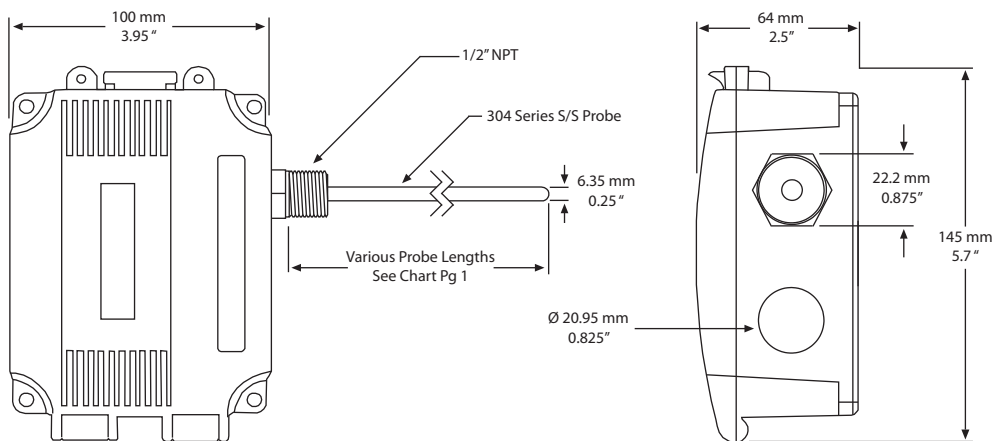
The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.



Recommended thermowell placement in pipe



DIMENSIONS:



ACCESSORIES:



THERMOWELL PART NUMBERING SYSTEM

SERIES NUMBER	NPT THREAD SIZE	MATERIAL	STEM LENGTH
T-1	1/2"	P - 304 SS R - 316 SS	2" 4" 6" 8" 12" 18"

EXAMPLE: T-1 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 sensors and transducers 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