

SUBMITTAL

Immersion Temperature Transmitter

Part Number:

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE500C	Immersion Temperature Transmitter

CODE	Enclosure (ABS enclosure is standard)
-	ABS enclosure, standard (no code required, leave blank)
M	Metal utility box
E	Round ABS, w/gasketed cover
W	Aluminum weatherproof box

CODE	Sensor
2	PT100-100 Ω Platinum, IEC 751, 385 Alpha, thin film
12	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film

CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")
E	300 mm (12")
F	450 mm (18")

CODE	Probe Material
2	304 Series Stainless Steel

CODE	Fitting
A	Spring loaded 1/2" NPT (Brass)
E	Non-spring loaded 1/2" NPT (Nylon)

CODE	Transmitter Output Signal
1A	Current 4-20mA
1D	Voltage 0-5 Vdc
1E	Voltage 0-10 Vdc

CODE	Transmitter Range
1	0° - 35°C (32° - 95°F)
2	0° - 50°C (32° - 122°F)
3	0° - 100°C (32° - 212°F)
4	50° - 150°C (122° - 302°F)
5	50° - 250°C (122° - 482°F)
6	-50 - 50°C (-58 - 122°F)
*	Custom range, please contact Greystone

TE500C - 12 B 2 A 1A 3

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

EXAMPLE: 4" Spring-loaded Immersion, 4-20mA, 0-100°C

*Custom Range:

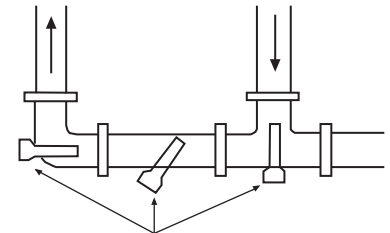
The TE500C single point immersion temperature transmitter incorporates a precision platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges. (See ordering chart)

Operating Temperature Range	-20° to 105 °C (-4° to 221 °F) Higher ranges available, please contact Greystone
Enclosure	Standard - ABS - UL94-V - NEMA 1 (IP23) Round (E) - ABS - NEMA 3 (IP64) Metal (M) - Galvanized steel - NEMA 1 (IP23) Weatherproof (W) - Cast Aluminum - NEMA 4X (IP66)
Cable	PVC insulated, parallel bonded (Type 2, 100 ohm Platinum is FT-4)
Probe	304 Series Stainless Steel with spin welded tip
Output Signal	Current: 4-20 mA current loop Voltage: 0-5 or 0-10 Vdc C (Factory Configured)
Transmitter Accuracy	±0.1% of span, including linearity
Power Supply	Current: 15-35 Vdc or 22-32 Vac Voltage: 0-5 Vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 Vdc or 15-32Vac
Power Consumption	Current: 22.5 mA Max. (Occurs with open sensor) Voltage: 5 mA nominal
PCB Operating Temperature	0° to 70°C (32° to 158°F)
Wiring Connections	Two or three wires Screw terminal block (14 to 22 AWG)

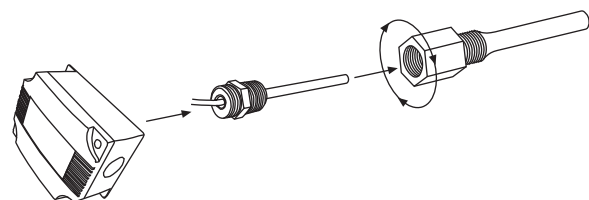
Installation:

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

The immersion type probes are installed in the appropriate length thermowell, which are available in numerous materials. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.



Thermowell placement in pipe



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ACCURACY BY DESIGN

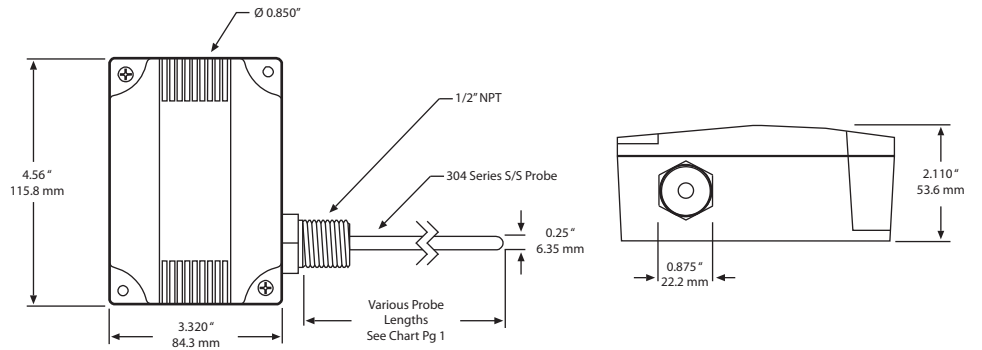
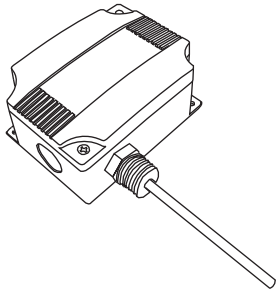
Greystone Energy Systems, Inc.
150 English Drive, Moncton, NB
Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014
North America: 1-800-561-5611
e-mail: mail@greystoneenergy.com
www.greystoneenergy.com

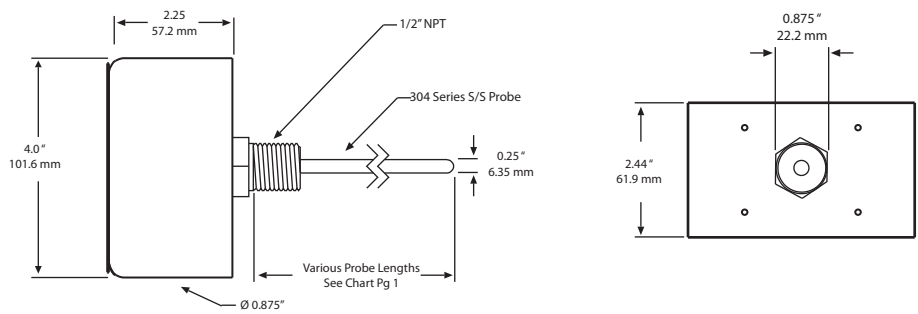
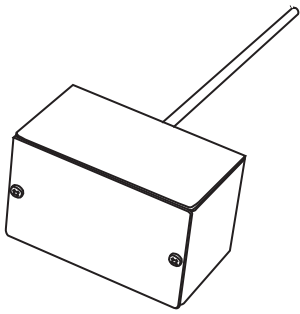
RoHS
COMPLIANT



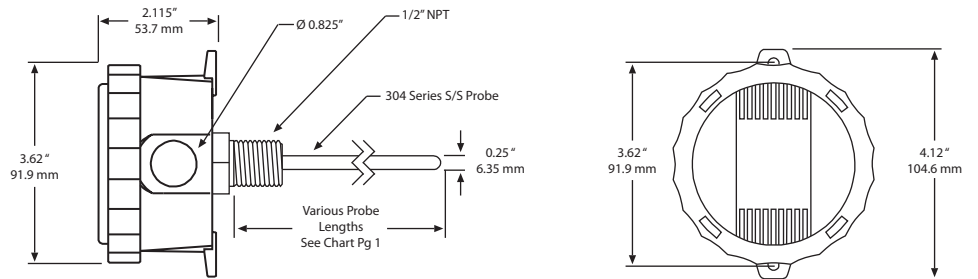
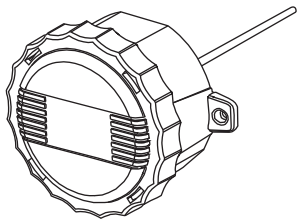
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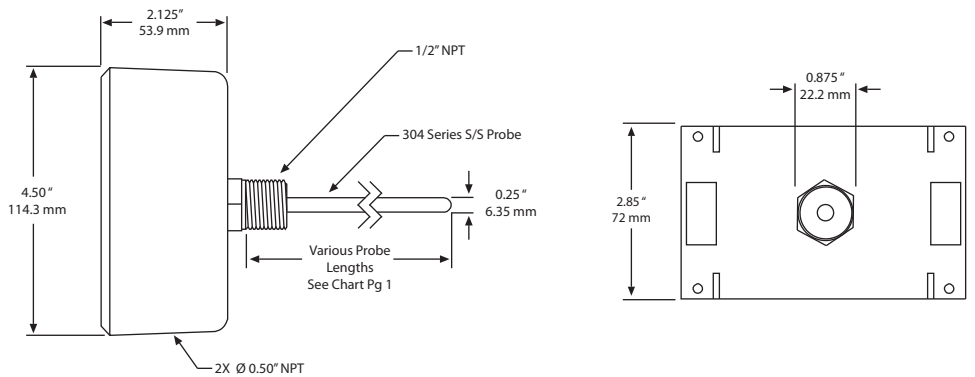
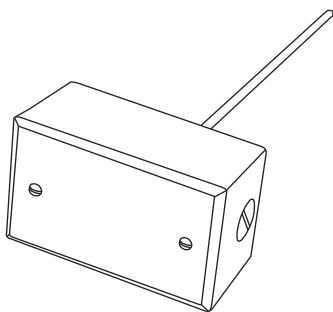
ABS Enclosure



Metal Enclosure



Round ABS Enclosure



Weatherproof Enclosure