



REMOTE PROBE IMMERSION TEMPERATURE TRANSMITTER TE500CR Series

The TE500CR is 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 (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)

SPECIFICATION:

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Sensor	100 ohm Platinum RTD or
	1000 ohm Platuinum RTD
Sensor Accuracy	±0.3°C (±0.54°F) @ 0°C (32°F)
Probe sensing Range	20 to 60°C (-4 to 140°F)
	FT-6 Rated Plenum Cable 22 AWG
Wire Length	1.524 m (5')
Probe Material	
Probe Dimension	6.35 mm (0.25") Diameter
Fitting Size	1/2" NPT
Fitting Material	A - Brass, E - Nylon
Output Signal	4-20mA current loop, 0-5 vdc, or
	0-10 Vdc (factory configured)
Transmitter Accuracy	±0.1% of span, including
	linearity
4-20 mA loop power Supply	
Minimum Current Loop	
	shorted sensor)
	22.5 mA nominal (occurs with
	open sensor)
Maximum Loop Load	
0-5 Vdc Power Supply	
0-10 Vdc Power Supply	
Maximum Current (Voltage)	
Maximum Output (Voltage)	limited to <5.5 Vdc for 0-5 Vdc,
	<10.5 for 0-10 vdc
Input Voltage Effect	
	operating range
	Good RFI rejection of normal
	frequencies
Protection Circuitry	Reverse voltage protected and
	output limited
Ambient Operating Range	20 - 60°C (-4 - 140°F), 0-95% RH
- 1	non-condensing
Enclosure	ABS, UL94-5VB, IP61 (NEMA 2)
	(E)-ABS, UL94-5VB,IP65 (NEMA 4X)
	(M)-Gal. Steel, IP50 (NEMA 1)
\\(\(\) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	(W)-Aluminum, IP64 (NEMA3X)
Wiring Connections	Screw terminal block

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION

RODUCT SEEECTION IN ORIMATION.	
MODEL	Product Description
TE500CR	Immersion Temperature Transmitter w/Remote Probe

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

CODE | Fitting

CODE	Sensor
2 12	100 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)

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")

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	Brass, Spring loaded 1/2" NPT Nylon, Non-spring loaded 1/2" NPT		
	CODE	CODE Output	
	1A 1D 1E	4-20 mA 0-5 Vdc 0-10 Vdc	
		CODE	Scaled Range
		1 2 3	0° - 35°C (32° - 95°F) 0° - 50°C (32° - 122°F) 0° - 100°C (32° - 212°F)

CODE	Scaled Range
1 2 3 *	0° - 35°C (32° - 95°F) 0° - 50°C (32° - 122°F) 0° - 100°C (32° - 212°F) Custom range, please contact Greystone

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

Custom Scaled Range:



(14 to 22 AWG)











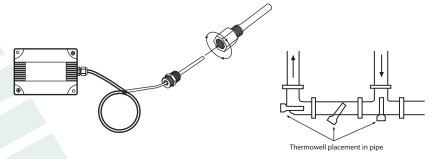
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TYPICAL INSTALLATION:

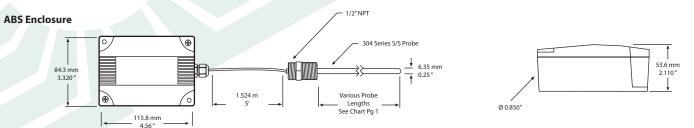
For complete installation and wiring details, please refer to the product installation instructions.

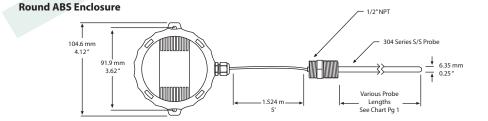
NOTE: All immersion sensors require a thermowell (sold separately)

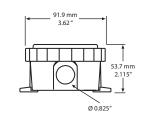
The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.

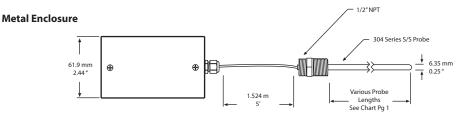


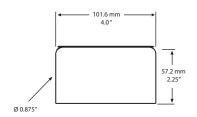
DIMENSIONS:

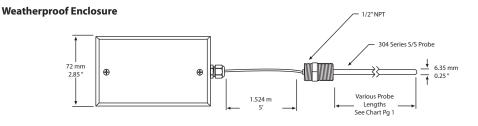


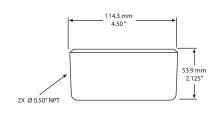












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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge 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.