

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	PART N
Sensor Accuracy	±0.3°C (±0.54°F) @ 0°C (32°F)	
Probe Sensing Range Wire Material	-20 to 105°C (-4 to 221°F)	
WITE Material	PVC insulated, parallel bonded	
Probe Material	304 Series Stainless Steel	PRO
Probe Dimension	6.35 mm (0.25") Diameter	MODE
Fitting Thread Size	1/2" NPT	TE5110
Output Signal	4-20mA current loop, 0-5 vdc,	TE5120
	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	
Ducto stice Cinquitmu	frequencies	
Protection Circuitry	Reverse voltage protected	
Display Units	and output limited °C (511 Series) or °F (512 Series)	
Display Range	3 digit for -88.8 to 888 as	
Display Nalige	necessary	
Display Size	24 mm x 11 mm	
Display Size	(0.95" x 0.45")	
Ambient Operating Range	0 - 70°C (32 - 158°F),	+
, instent operating hange	0-95% RH non-condensing	
Enclosure	ABS, UL94-5VB, IP65 (NEMA 4X)	
	*In order to maintain the	Greystone E
	published NEMA/IP ratings,	
	properly rated conduit or	
	cable gland adapters must be	
	used.	
Wiring Connections	Screw terminal block	
	(14 to 22 AWG)	

PART NUMBER SELECTED

RODUCT SELECTION INFORMATION:

N	IODEL	Product Description						
	E511C E512C		Immersion Temperature Transmitter, c/w LCD Display °C Immersion Temperature Transmitter, c/w LCD Display °F					
		CODE Probe Length						
		A2 B2 C2 D2 E2 F2	50 mm (2") 100 mm (4") 150 mm (6") 200 mm (8") 300 mm (12") 450 mm (18")					
			CODE	Output				
			A D E	Voltage 0-5 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) Custom ranges available Contact Greystone			
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eystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



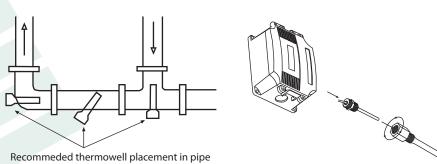
TYPICAL INSTALLATION:

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

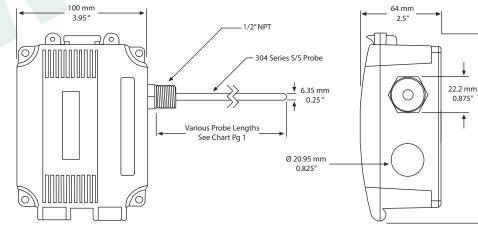
NOTE: All immersion sensors require a thermowell (sold separately)

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.

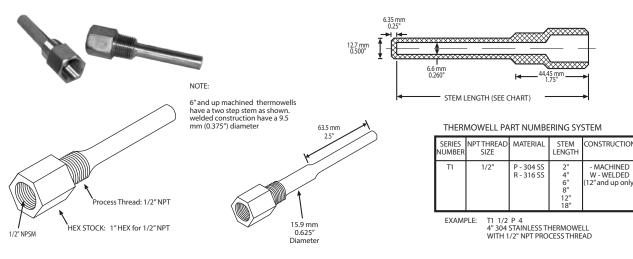
DIMENSIONS:



Recommeded thermowell placement in pipe



ACCESSORIES:



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145 mm

5.7

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.

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GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM