

OUTSIDE TEMPERATURE TRANSMITTER TE500F Series

The TE500F, single point outside air temperature sensor utilizes a precision platinum RTD sensor. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penatration. A sun and wind shield is integrated into the enclosure. It is provided in a weatherproof ABS enclosure 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:

Sensor	
	1000 ohm Platuinum RTD
Sensor Accuracy	
Probe Sensing Range	
Wire Material	. PVC insulated, parallel bonded
	(Type 2, 100Ω Plat. uses FT4)
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	. 15-35 Vdc or 22-32 Vac
Minimum Current Loop	. 2 mA nominal (occurs with
	shorted sensor)
Maximum loop Current	. 22.5 mA nominal (occurs with
	open sensor)
Maximum Loop Load	. >600 ohms
0-5 Vdc Power Supply	. 10-35 vdc or 10-32 Vac
0-10 Vdc Power Supply	
Maximum Current (Voltage)	. 5 mA nominal
Maximum Output (Voltage)	. limited to <5.5 Vdc for 0-5 Vdc,
	<10.5 for 0-10 vdc
Input Voltage Effect	. Negligible over specified
	operating range
RFI rejection	. Good RFI rejection of normal
,	frequencies
Protection Circuitry	. Reverse voltage protected and
,	output limited
Ambient Operating Range	40 - 85°C (-40 - 185°F), 0-95% RH
1 3 5	non-condensing
Enclosure	. ABS, UL94-5VB, IP64 (NEMA 4X)
	*In order to maintain the
	published NEMA/IP ratings,
	properly rated conduit or cable
	gland adapters must be used.
Wiring Connections	
	(14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

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

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MOD	DEL	Product Description					
TE50	00F	Outside Temperature Transmitter, Hinged ABS Weatherproof Enclosure					
		CODE Sensor					
		2 12	100 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)				
			CODE Output				
		1A		4-20 mA			
			1D 0-5 Vdc 1E 0-10 Vdc				
				CODE	Scaled Range		
				1 2	0-35°C (32 - 95°F) 0-50°C (32 - 122°F)		
				3 6	0-100°C (32 - 212°F) -50 - 50°C (-58 - 122°F)		
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TYPICAL INSTALLATION:

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

The TE500F should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight.

The TE500F can be mounted directly to buildings wall face using the provided mounting holes. There is one 0.85" holes for conduit connection.

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