

The TE500D multi point duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances (DC is continuous) and encapsulated in a 7.94 mm (0.3125") OD, soft copper 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	
Trobe Jensing Nange	DC: -40 - 100°C (-40 - 212°F)
Wire Material	
wire Material	PVC insulated, parallel bonded
Probe Material	(Type 2, 10002 Plat. uses F14)
Probe Dimension	
	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	
0-10 Vdc Power Supply	
Maximum Current (Voltage)	
Maximum Output (Voltage)	
Maximum Output (voitage)	<10.5 for 0-10 vdc
Input Voltage Effect	
input voitage Effect	
	operating range
RFI rejection	
	frequencies
Protection Circuitry	
	output limited
Ambient Operating Range	40 - 85°C (-40 - 185°F), 0-95% RH
	non-condensing
Enclosure	ABS, UL94-5VB, IP61 (NEMA 2)
	(E)-ABS, UL94-5VB, IP65 (NEMA 4X)
	(M)-Gal. Steel, IP50 (NEMA 1)
	(W)-Cast Aluminum, IP64 (NEMA3X)
	*In order to maintain the
	published NEMA/IP ratings,
	properly rated conduit or cable
	gland adapters must be used.
Wiring Connections	screw terminal block
-	(14 to 22 AWG)

TYPICAL INSTALLATION:

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

The duct average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification elements.

Each enclosure style provides mounting tabs on the outside for ease of installation.

DUCT AVERAGE TEMPERATURE TRANSMITTER TE500D Series



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE500D	Duct Average Temperature Transmitter
TE500DC	Continuous Duct Average Temperature Transmitter (Available in Type 12 sensor only)

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

Probe Length/No. of Sensors for D Style		
1800 mm (6')	4 Sensors	N/A on DC
3600 mm (12')	4 Sensors	
6100 mm (20')	4 Sensors	N/A on DC
7300 mm (24')	9 sensors	
		1800 mm (6') 4 Sensors 3600 mm (12') 4 Sensors 6100 mm (20') 4 Sensors

co	DE	Output
1/ 1/ 1/	c	4-20 mA 0-5 Vdc 0-10 Vdc

CODE	Scaled Range
1 2 3 6 *	0-35°C (32-95°F) 0-50°C (32-122°F) 0-100°C (32-212°F) -50-50°C (-58-122°F) Custom ranges available

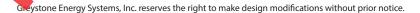












-2X Ø 0.50" NPT



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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.

01/14

TE500D-SUB-001