

DUCT AVERAGE TEMPERATURE TRANSMITTER w/LCD TE511/512D Series

The TE511/512D duct averaging temperature transmitter incorporates numerous precision platinum RTD's encapsulated in a 7.94 mm (0.3125") OD, soft copper probe and is available in various lengths (see ordering chart). The TE511/512DC uses a single continuous platinum sensing element along the entire assembly and is available in 1800 mm (6') & 6100 mm (20') lengths. 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 for measurement of duct temperatures. A LCD is provided in either °C (511) or °F (512).



SPECIFICATION:

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Sensor	. 1000 ohm Platinum RTD
Sensor Accuracy	.±0.3°C (±0.54°F) @ 0°C (32°F)
Probe Sensing Range	. D: -20 to 60°C (-4 to 140°F)
	DC: -40 to 100°C (-40 to 212°F)
Wire Material	. D: FT6 Plenum rated, 22 AWG
	DC: PTFE insulated 22 AWG
Probe Material	. Soft copper
Probe Dimension	.7.94 mm (0.3125") Diameter
Output Signal	.4-20mA current loop, 0-5 vdc,
	or 0-10 Vdc (factory configured)
Transmitter Accuracy	.±0.1% of span, including
•	linearity
Power Supply	. 4-20 mÁ: 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
	frequencies
Protection Circuitry	. Reverse voltage protected
	and output limited
Display Units	°C (511 Series) or °F (512 Series)
Display Range	. 3 digit for -88.8 to 888 as
	necessary
Display Size	. 24 mm x 11 mm
	(0.95" x 0.45")
Ambient Operating Range	
	0-95% RH non-condensing
Enclosure	. ABS, UL94-5VB, IP65 (NEMA 4X)
	*In order to maintain the
	published NEMA/IP ratings,
	properly rated conduit or
	cable gland adapters must be
	used

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description	
TE511D	Multi-point Duct Average Temperature Transmitter c/w LCD display °C	
TE512D	Multi-point Duct Average Temperature Transmitter c/w LCD display °F	
TE511DC	5511DC Continuous Duct Average Temperature Transmitter c/w LCD display °C	
TE512DC	Continuous Duct Average Temperature Transmitter c/w LCD display °F	

Current 4-20mA

CODE	Probe Length No. of Sensors on Multi-point	
G3	1800 mm (6')	4 Sensors *N/A on DC
Н3	3600 mm (12')	4 Sensors
13	6100 mm (20')	4 Sensors *N/A on DC
J3	7300 mm (24')	9 Sensors
	CODE Output	

Voltage 0-5 Vdc Voltage 0-10 Vdc		
CODE	Scaled Range	
1 2 *	0 - 35°C (32 - 95°F) 0 - 50°C (32 - 122°F) Custom ranges available	
	Contact Greystone	



(14 to 22 AWG)

Wiring Connections.....Screw terminal block









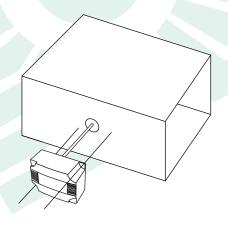
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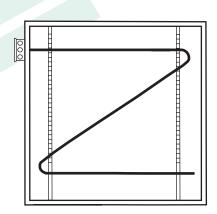
TYPICAL INSTALLATION:

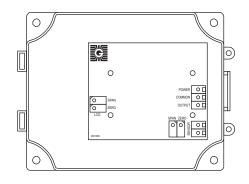
For complete installation and wiring details, please refer to the product installation instructions.

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 devices.

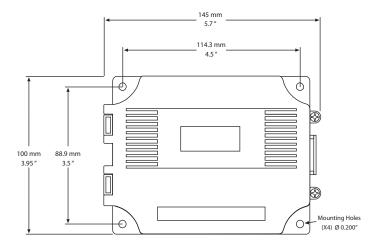
The enclosure provides mounting tabs or holes for ease of installation.

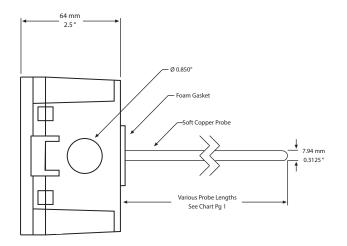






DIMENSIONS:





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



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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.