

# RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER N TE500DR Series

The TE500DR series multi point rigid duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances and 6.35 mm (0.25") OD, 304 series 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:**

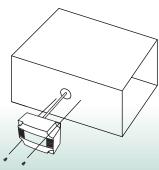
Operating Range: <b>Sensor:</b> -20 to 60 °C (-4 to 140 °F) <b>PCB:</b> 0 to 70 °C (32 to 158 °F)						
Wire Material:FT-6 Plenum-rated						
Probe Material:304 Series Stainless Steel						
Probe Dimensions:0.25" (6.35 mm) Diameter						
Enclosure:Standard - ABS - UL94-V - NEMA 12 (IP64) Round (E) - ABS - NEMA 12 (IP64) Metal (M) - Gal. Steel - NEMA 1 (IP30) Weatherproof (W) - Cast Alum. NEMA 3R (IP64)						
Output Signal: <b>Current:</b> 4-20mA current loop <b>Voltage:</b> 0-5 or 0-10 Vdc						
Transmitter Accuracy±0.1% of span, including linearity						
Power Supply <b>Current:</b> 15-35 Vdc or 22-32 Vac <b>Voltage:</b> 0-5 vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 vdc or 15-32 Vac						
Consumption <b>Current:</b> 22 mA Max. (Occurs with open senso <b>Voltage:</b> 5 mA nominal						
Connections:Screw terminal block (14 to 22 AWG)						

#### **TYPICAL INSTALLATION:**

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

The rigid duct average type probes are installed in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows the probe to span the duct width. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

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



#### **PART NUMBER SELECTED**

### **PRODUCT SELECTION INFORMATION:**

MODEL	Product Description						
E500DR Rigid Duct Average Temperature Sensor							
	CODE - M E W	ABS enclo Metal uti Round Al	ure (ABS enclosure is standard) closure, standard (no code required, leave blank) tility box ABS, w/gasketed cover um weatherproof box				
		2 12	Sensor PT100-100 $\Omega$ Platinum, IEC 751, 385 Alpha, thin film PT1000-1000 $\Omega$ Platinum, IEC 751, 385 Alpha, thin film				
	CODE Probe Length						
			K2 L2 M2	450 mm (18") 600 mm (24") 900 mm (36")			
				CODE	E Transmitter Output Signal		
				1A 1D 1E	Current 4-20mA Voltage 0-5 Vdc Voltage 0-10 Vdc		
					CODE	Transmitter Range	
					1 2 6 *	0 - 35°C (32 - 95°F) 0 - 50°C (32 - 122°F) -50 - 50°C (-58 - 122°F) Custom range, please contact Greystone	
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E500DR	-	12	K2	1A	2	ations without prior notice.	

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

\*Custom Range:

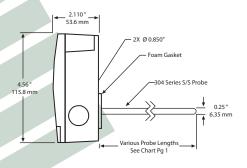


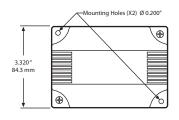




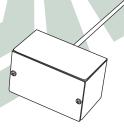


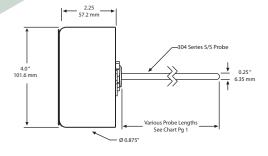


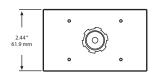




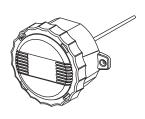
**ABS Enclosure** 

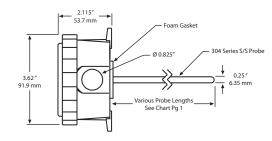


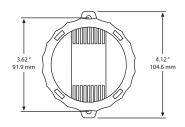




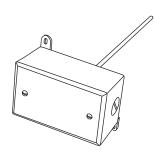
Metal Enclosure (M)



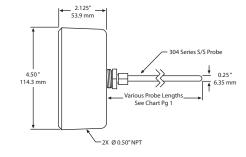


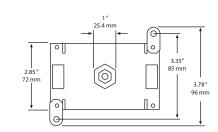


**Round ABS Enclosure (E)** 



Weatherproof Enclosure (W)





## **GREYSTONE** ACCURACY BY DESIGN

Greystone Energy Systems, Inc. 150 English Drive, Moncton, NB Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com









Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transducers 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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