

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:

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	
Wire Material	PVC insulated, parallel bonded
	(Type 2, 100Ω Plat. uses FT4)
Probe Material	304 Series Stainless Steel
Probe Dimension	6.35 mm (0.25") Diameter
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	
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
	non-condensing
Enclosure	ABS, UL94-5VB, IP61 (NEMA 12)
	(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	
vviirig connections	. JCIEW LEITHING DIOCK



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

IODEL	Product Description							
500DR	Rigid Dud	uct Average Temperature Sensor						
	CODE - E M W	Enclosure (ABS enclosure is standard) ABS enclosure, standard (no code required, leave blank) Round ABS, w/gasketed cover Metal utility box Aluminum weatherproof box						
		CODE Sensor 2 100 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)						
			K	CODE Probe Length K2 450 mm (18") L2 600 mm (24") M2 900 mm (36")				
					CODE 1A 1D 1E	Output 4-20mA 0-5 Vdc 0-10 Vdc		
•	•		•			1 2 6 *	Scaled Range 0 - 35°C (32 - 95°F) 0 - 50°C (32 - 122°F) -50 - 50°C (-58 - 122°F) Custom range, please contact Greystone	

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



(14 to 22 AWG)









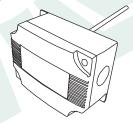
For complete installation and wiring details, please refer to the product installation instructions.

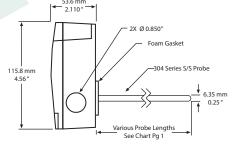
The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

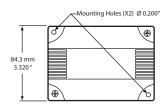
Each enclosure style provides mounting tabs or holes for ease of installation.

DIMENSIONS:

ABS Enclosure

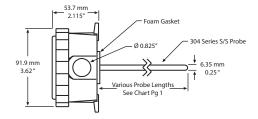


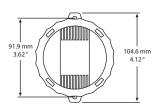




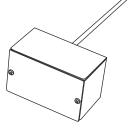
Round ABS Enclosure

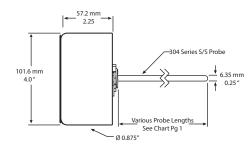


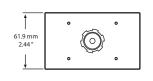


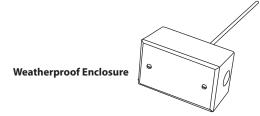


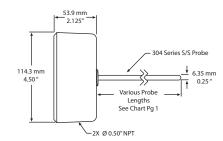
Metal Enclosure

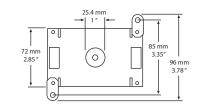














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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transducers for Building Automation Management Systems.

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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