

RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER with LCD TDDR Series

The multi-point rigid duct average temperature transmitter incorporates four precision platinum RTD's encapsulated in a 6 mm (0.236") OD, 304 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. A weatherproof Polycarbonate enclosure is included for ease of installation. An LCD is provided in either °C or °F (see ordering chart).

SPECIFICATIONS:

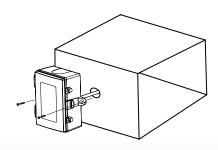
Sensor Type:	1000 ohm platinum RTD
Sensor Accuracy:	±0.3°C (±0.94°F) @ 0°C (32°F)
Probe Sensing Range:	20 to 60°C (-4 to 140°F)
Wire Material:	PVC insulated, 22 AWG
Probe Material:	304 Series stainless steel
Probe Diameter:	6 mm (0.236")
Output Signal:	4-20 mA current loop, 0-5 vdc, or 0-10 vdc
	(factory configured)
Transmitter Accuracy:	±0.2% of span, including linearity
Power Supply:	15 to 30 Vdc, 12 to 28 Vac
Consumption (max):	22.5 mA (on open sensor)
Input Voltage Effect:	Negligible over specified operating range
Protection Circuitry:	Reverse voltage protected and output limited
LCD Display Units:	°C or °F (factory configured)
Display Range:	3 digit for -88.8 to 888 as required
Display Size:	38.1mm W x 16.5 mm H (1.5" to 0.65")
Digit Height:	11.4 mm (0.45") plus °C/°F symbol
Ambient Operating Range:	0 to 50°C (32 to 122°F), 0-95 %RH
Enclosure:	Grey polycarbonate UL94-V0, IP65 (NEMA 4X)
	F style includes thread adapter (1/2" NPT to M16)
	and cable gland fitting
Wiring Connections:	Screw terminal block (14 to 22 AWG)
Country of Origin:	Canada

TYPICAL INSTALLATION:

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.

The enclosure provides mounting tabs for ease of installation.





PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

CODE Sensor

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M	ODEL	Product Description
TDDR Rigid Duct Average Temperature Transmitter with Display		Rigid Duct Average Temperature Transmitter with Display

	CODE	Enclosure		
B Polycarbonate, with hinged & gasketed cover Same as B, with thread adapter & cable gland fitting				

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со	DE	Display Units
F	:	Celsius Fahrenheit

450 mm (18")

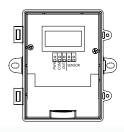
600 mm (24")

	CODE	Probe Length	
2	1000 Ω , Platinum, 2 Wire, IEC 751, 385 Alpha, thin film, Class B		

l	900 mm (36")			
	CODE	Adjustab	Adjustable Setpoint Range	
	A D E	0-5 Vdc 3	4-20 mA 2 or 3 wire 0-5 Vdc 3 wire 0-10 Vdc 3 wire	
		CODE	Scaled Range	
		001	0 to 35°C (32 to 95°F)	

CODE	Scaled Range
001 002	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F)
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



Wiring:

PWR COM TEMP (2)

NO COM

Function

Power Supply Power Supply Common Temperature Sensor Input

Relay Output - Normally Open Contact Relay Common Relay Output - Normally Closed Contact

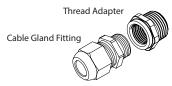












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