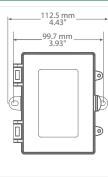
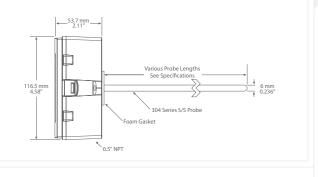


RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER WITH LCD







TDDR SERIES

PRODUCT DESCRIPTION

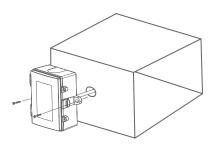
The multi-point rigid duct average temperature transmitter incorporates four precision platinum RTD's encapsulated in a 6 mm (0.236") OD, 304 stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges. A hinged and gasketed Polycarbonate enclosure is included for ease of installation. An LCD is provided in either °C or °F.

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.



SPECIFICATIONS

SENSOR TYPE	1000 Ω platinum RTD		
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)		
PROBE SENSING RANGE	-40 to 60°C (-40 to 140°F)		
PROBE DIAMETER	6mm (0.236")		
PROBE MATERIAL	304 series stainless steel		
STANDARD LENGTHS	450, 600, 900 mm (18", 24", 36")		
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	15-30 Vdc or 12-28 Vac		
MAXIMUM LOOP CURRENT	20 mA		
MINIMUM LOOP CURRENT	4 mA		
MAXIMUM LOOP LOAD	700Ω		
MAXIMUM CURRENT (VOLTAGE)	11 mA		
MAXIMUM OUTPUT (VOLTAGE)	10 Vdc		
CONSUMPTION (MAX)	Current: 20 mA Voltage: 11 mA		
INPUT VOLTAGE EFFECT	Negligible over specified operating range		
PROTECTION CIRCUITRY	Reverse voltage protected and output limited		
OUTPUT DRIVE @ 24 VDC	Current: 700Ω max Voltage: 20,000Ω min		
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 16.5mm H (1.5" x 0.65")		
DIGIT HEIGHT	11.4mm (0.45″) plus °C/°F symbol		
AMBIENT OPERATING RANGE	0 to 50°C (32 to 122°F), 5 to 95 %RH		
ENCLOSURE	B: Grey polycarbonate UL94-V0, IP65 (NEMA 4X) F: Same as B with thread adapter (1/2" NPT to M16) and cable gland fitting		
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)		
COUNTRY OF ORIGIN	Canada		
COUNTRY OF ORIGIN	Canada		

ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION







CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16



WIRING INFORMATION



ORDERING			PART NUMBER
PRODUCT	TDDR	Rigid duct average temperature Transmitter with Display	TDDR
ENCLOSURE	B F	Polycarbonate, with hinged and gasketed cover Same as B, with thread adapter and cable gland fitting	
DISPLAY UNITS	C F	Celsius Fahrenheit	
SENSOR	12	1000Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class B	
PROBE LENGTH	F G H	450mm (18″) 600mm (24″) 900mm (36″)	
OUTPUT	A D E	4-20 mA, 2 or 3 wire 0-5 Vdc, 3 wire 0-10 Vdc, 3 wire	
SCALED RANGE	001 002	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F)	

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



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