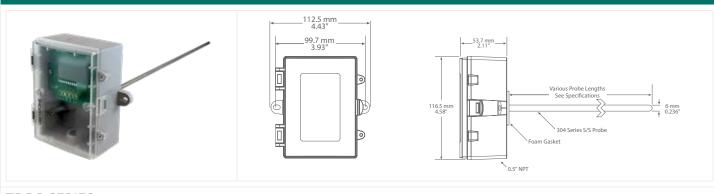


RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER WITH LCD



TDDR SERIES

PRODUCT DESCRIPTION

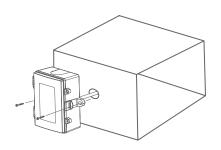
The multi-point rigid duct average temperature transmitter incorporates four precision platinum RTD's encapsulated in a 6 mm (0.236") OD, 304 stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter 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.

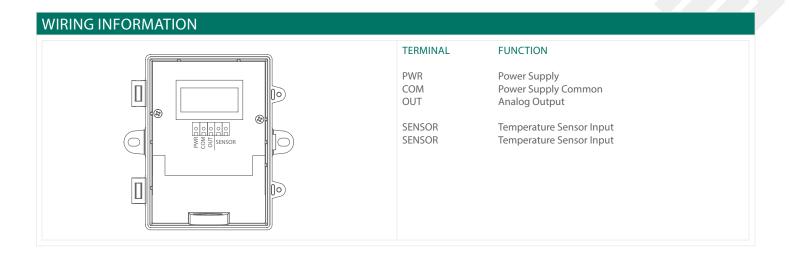
The enclosure provides mounting tabs for ease of installation.



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: $20,000\Omega$ min		
LCD DISPLAY UNITS	°C or °F (factory configured)		
DISPLAY RANGE	3 digit Negative to Positive Range (-88 to 88) Positive Range <100 (88.8), >100 (888)		
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		







ORDERING		
PRODUCT	TDDR	Rigid duct average temperature Transmitter with Display
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)

PART NUMBER
TDDR

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



PS-TDDRXXX-02-01