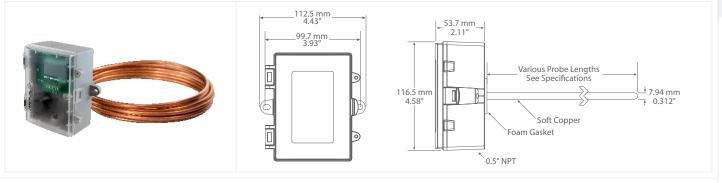


FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE TRANSMITTER WITH LCD



TDDC SERIES

PRODUCT DESCRIPTION

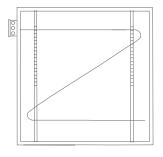
The duct averaging temperature transmitter incorporates numerous precision platinum RTD's encapsulated in a 7.94 mm (0.3125") OD, soft copper probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response for measurement of duct temperatures. 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 average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification elements.

The enclosure provides mounting tabs for ease of installation.



SPECIFICATIONS

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SENSOR TYPE	1000 Ω platinum RTD		
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)		
PROBE SENSING RANGE	-20 to 60°C (-4 to 140°F)		
PROBE DIAMETER	7.94mm (0.312")		
PROBE MATERIAL	Soft copper		
STANDARD LENGTHS	1800, 3600, 6100, 7300 mm (6', 12', 20', 24')		
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG		
MAXIMUM LOOP CURRENT	20 mA		
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		
CONSUMPTION (MAX)	Current: 20 mA Voltage: 11 mA		
MINIMUM LOOP CURRENT	4 mA		
MAXIMUM LOOP LOAD	700Ω		
MAXIMUM CURRENT (VOLTAGE)	11 mA		
MAXIMUM OUTPUT (VOLTAGE)	10 Vdc		
PROTECTION CIRCUITRY	Reverse voltage protected and output limited		
INPUT VOLTAGE EFFECT	Negligible over specified operating range		
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		

ACCESSORIES - INCLUDED IN F ENCLOSURE OPTION







CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16



WIRING INFORMATION



ORDERING			PART NUMBER
PRODUCT	TDDC	Flexible Copper Duct Average Temperature Transmitter with Display	TDDC
ENCLOSURE	B F	Polycarbonate, with hinged and gasketed cover Same as B, with thread adapter(1/2" NPT to M16) 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	I J K L	1800mm (6') 3600mm (12') 6100mm (20') 7300mm (24')	
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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