

## ALL PURPOSE TEMPERATURE TRANSMITTER WITH LCD 112.5 mm 4.43" 99.7 mm 2.11" Various Probe Lengths See Specifications 116.5 mm 4.58" 304 Series 5/5 Foam Gasket

## **PRODUCT DESCRIPTION**

**TDAP SERIES** 

The TDAP series incorporates a precision platinum RTD 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. The transmitter provides a high accuracy signal with excellent long term stability, low hysteresis and fast response. It is available with various scaled ranges. A hinged and gasketed Polycarbonate enclosure is included, and an LCD is provided in either °C or °F.

## TYPICAL INSTALLATION

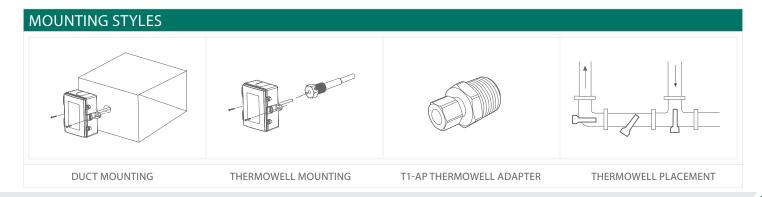
For complete installation and wiring details, please refer to the product installation instructions.

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.

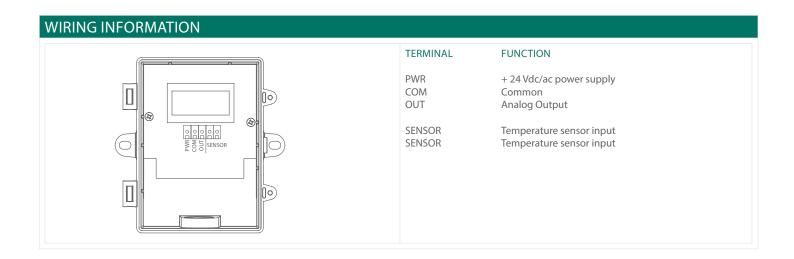
NOTE: For immersion applications, a T2 series thermowell is required. When using a T1 series thermowell an adapter will be required.

SPECIFICATIONS			
SENSOR TYPE	1000 $Ω$ platinum RTD		
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)		
PROBE SENSING RANGE	-40 to 100°C (-40 to 212°F)		
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG		
PROBE MATERIAL	304 series stainless steel		
PROBE DIAMETER	6 mm (0.236")		
STANDARD LENGTHS	50, 100, 150, 200, 300, and 400 mm (2", 4", 6", 8", 12", and 18")		
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		
INPUT VOLTAGE EFFECT	Negligible over specified operating range		
PROTECTION CIRCUITRY	Reverse voltage protected and output limited		
OUTPUT DRIVE @ 24 VDC	<b>Current:</b> 700Ω max <b>Voltage:</b> 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>B:</b> Grey polycarbonate UL94-V0, IP65 (NEMA 4X) <b>F:</b> 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			PART NUMBER
PRODUCT	TDAP	All purpose duct/immersion temperature Transmitter with Display	TDAP
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	A B C D E F	50mm (2") 100mm (4") 150mm (6") 200mm (8") 300mm (12") 450mm (18")	
OUTPUT	A D E	4-20 mA, 2 or 3 wire 0-5 Vdc, 3 wire 0-10 Vdc, 3 wire	
SCALED RANGE	001 002 003 09E	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) 0 to 100°C (32 to 212°F) -10 to 60°C (14 to 140°F)	

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

