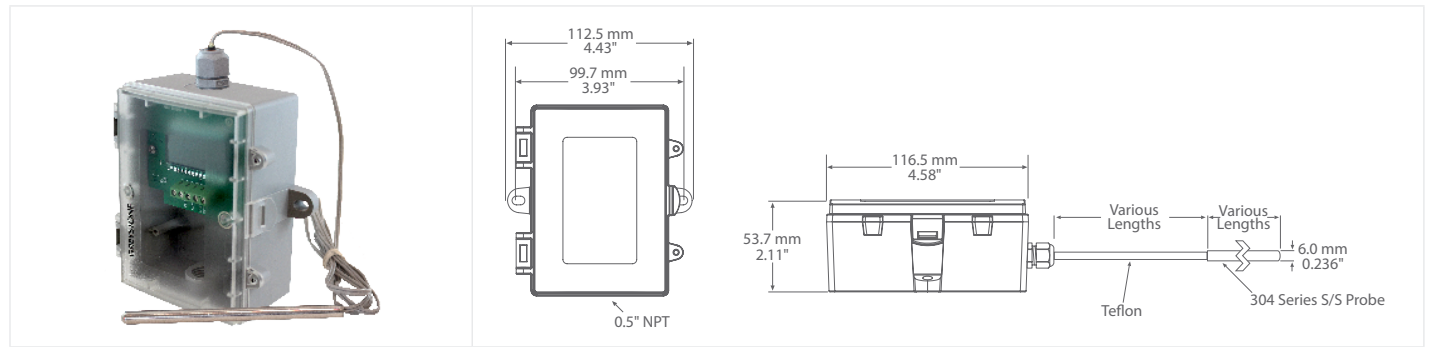




REMOTE PROBE STRAP-ON TEMPERATURE TRANSMITTER WITH LCD



TDRP SERIES

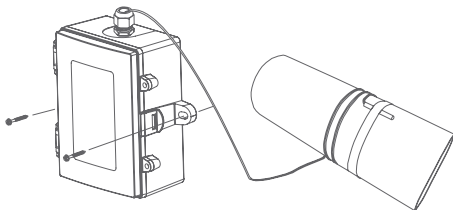
PRODUCT DESCRIPTION

The single point strap-on temperature transmitter 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. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response for measurement of pipe 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.

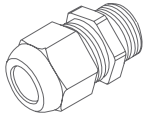

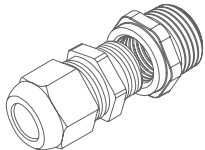
Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from the pipe. Position the probe directly on the pipe and secure using a pipe clamp. For added security, make 1 to 3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If applicable, the pipe insulation can be re-applied to the pipe over the probe.



SPECIFICATIONS

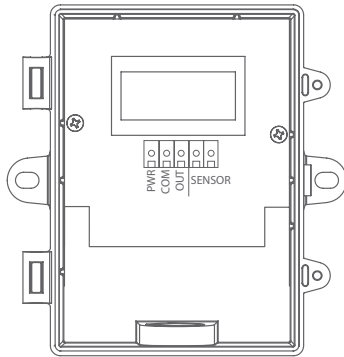
SENSOR TYPE	1000 Ω platinum RTD
SENSOR ACCURACY	$\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F)
PROBE SENSING RANGE	-100 to 50°C (-148 to 122°F)
PROBE MATERIAL	304 series stainless steel
PROBE DIAMETER	6mm (0.236")
STANDARD LENGTHS	50, 100, 150, 200, 300, 450 mm (2", 4", 6", 8", 12", 18")
WIRE LENGTH	3 m (9.8') or 5 m (16.4')
WIRE MATERIAL	Teflon, 22 AWG
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	$\pm 0.2\%$ of span, including linearity
POWER SUPPLY	15-30 Vdc or 12-28 Vac
CONSUMPTION (MAX)	Current: 20 mA Voltage: 11 mA
MAXIMUM LOOP CURRENT	20 mA
MINIMUM LOOP CURRENT	4 mA
MAXIMUM LOOP LOAD	700 Ω
MAXIMUM CURRENT (VOLTAGE)	11 mA
MAXIMUM OUTPUT (VOLTAGE)	10 Vdc
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
OUTPUT DRIVE @ 24 VDC	Current: 700 Ω max Voltage: 20,000 Ω min
LCD DISPLAY UNITS	$^{\circ}\text{C}$ or $^{\circ}\text{F}$ (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 $^{\circ}\text{C}/^{\circ}\text{F}$ symbol
AMBIENT OPERATING RANGE	0 to 50°C (32 to 122°F), 0 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 WITH F ENCLOSURE OPTION

		
CABLE GLAND FITTING	THREAD ADAPTER 1/2" NPT TO M16	



WIRING INFORMATION



TERMINAL	FUNCTION
PWR	+24 Vdc/ac power supply
COM	Common
OUT	Analog output
SENSOR	Temperature sensor input
SENSOR	Temperature sensor input

ORDERING

PRODUCT	TDRP	Remote Probe Strap-on 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	A B C D	50mm (2") 100mm (4") 150mm (6") 200mm (8")
OUTPUT	A D E	4-20 mA, 2 or 3 wire 0-5 Vdc, 3 wire 0-10 Vdc, 3 wire
SCALED RANGE	13X	-100 to 50°C (-148 to 122°F)
WIRE LENGTH	-3M -5M	3 m (9.8') 5 m (16.4')

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

PART NUMBER

TDRP