



REMOTE PROBE STRAP-ON TEMPERATURE TRANSMITTER WITH LCD

TDRP Series

The single point strap-on temperature transmitter incorporates a precision platinum RTD encapsulated in a 1/2" (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.

PRODUCT HIGHLIGHTS

- Compact form factor enclosure with soft close cover
- IP 65 Enclosure
- Slotted mounting holes angled for ease of field installation
- Custom branding available
- Multiple mounting options

ENGINEERING SPEC'S

- Shall be IP65 (NEMA 4X) with a UL94-V0 rated enclosure
- External mounting tabs must be slotted & tapered away from enclosure to ease field installation
- Probe shall be one piece 304 S.S Fully potted
- Enclosure shall be complete with neoprene gasket for duct to enclosure seal
- Enclosure shall be complete with threaded (1/2 NPT and/or M16) conduit connection
- Cover must be hinged and securely attached in the open position
- Sensing range must be -40 to 100°C (-40 to 212°F)
- Cover must contain security screw as extra protection from opening
- Product shall be CE approved



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	-40 to 100°C (-40 to 212°F)
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
WIRE LENGHT	1.524m (5')
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")
MAXIMUM LOOP CURRENT	20 mA
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
MINIMUM LOOP CURRENT	4 mA
MAXIMUM LOOP LOAD	700Ω
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 digits 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