



HEAVY DUTY ROOM TEMPERATURE TRANSMITTER WITH LCD

TDHR Series

The heavy-duty room temperature transmitter incorporates a precision platinum RTD. A transmitter that provides a high accuracy signal with excellent long-term stability, low hysteresis and fast response is available with various ranges.

A polycarbonate enclosure with a hinged and gasketed cover is provided for ease of installation. An LCD is provided in either °C or °F.

PRODUCT HIGHLIGHTS

- Compact form factor
- Slotted mounting hole angle for easy of field mounting
- See through cover for easy viewing
- Custom branding available

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 -0 to 50°C (32 to 122°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	±0.3°C (±0.54°F) @ 0°C (32°F)
PROBE SENSING RANGE	0 to 50°C (32 to 122°F)
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
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
RESOLUTION	0.1°C/°F
MAXIMUM LOOP CURRENT	20 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: 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), 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