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 |