ROOM TEMPERATURE TRANSMITTER

TXRC Series

The TXRC series room temperature transmitter is an attractive, low profile enclosure that incorporates a precision platinum RTD and a transmitter that provides a high accuracy signal with excellent long-term stability, low hysteresis and fast response for measurement of room temperatures. Additional options are available which include setpoint adjustment, manual override & Fan speed control.

PRODUCT HIGHLIGHTS

* Precision Thermistor/RTD sensing elements
* Compact form factor
* Mountable directly to a single gang electrical box or directly to a wall
* Custom banding available

PRODUCT SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| SENSING ELEMENT | 1000 Ω Platinum RTD |
| SENSOR ACCURACY | ±0.3°C (±0.54°F) @ 0°C (32°F) |
| OUTPUT SIGNAL | 4-20 mA, 0-5 Vdc, or 0-10 Vdc (factory configured) |
| TRANSMITTER ACCURACY | ±0.1% of span, including linearity |
| 4-20 mA LOOP POWER SUPPLY | 15-35 Vdc or 22-32 Vac |
| MINIMUM LOOP CURRENT | 2 mA nominal (occurs with shorted sensor) |
| MAXIMUM LOOP CURRENT | 22.5 mA nominal (occurs with open sensor)  MAXIMUM LOOP |
| MAXIMUM LOOP LOAD | >600 Ω |
| 0-5 VDC POWER SUPPLY | 10-35 Vdc or 10-32 Vac |
| 0-10 VDC POWER SUPPLY | 15-35 Vdc or 15-32 Vac |
| MAXIMUM CURRENT (VOLTAGE) | 2 mA nominal |
| MAXIMUM OUTPUT (VOLTAGE) | Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 Vdc |
| INPUT VOLTAGE EFFECT | Negligible over specified operating range |
| RFI REJECTION | Good RFI rejection of normal frequencies |
| PROTECTION CIRCUITRY | Reverse voltage protected and output limited |
| SETPOINT ADJUSTMENT | **Type:** Front panel slide pot, 2 wire resistance output  **Range:** 0K to 10K Ω standard  **Custom Spans Available:** 1K, 2K, 5K, 10K or 20K Ω |
| MANUAL OVERRIDE | **Type:** Front panel, momentary pushbutton  **Front Panel Pushbutton:** 50 mA @ 12 Vdc, N.O., SPST |
| STATUS LED INPUT | **Signal Type:** Active high, low, or 2 wire, 5 V current limited standard  **LED Colors:** Yellow (Y), Red (R), or Green (G)  **Power Supply:** 5 Vdc standard, 10 or 24 Vdc optional |
| COMMUNICATION JACK | 4 pin header to 4 pin terminal block. Requires HHTA - Hand Held Adapter |
| FAN SPEED SWITCH | **Type:** Side mounted, 5 position slide switch  **Designers:** Off, Auto, Low, Medium, High  **Signal:** 2 wire, resistance output 0, 2, 4, 6, 8 KΩ (custom ranges available) |
| SET-POINT SLIDE POT | **Type:** Front panel slide-pot, 2 wire resistance output  **Range:** 0K to 10KΩ standard  **Custom Spans Available:** 1K, 2K, 5K, 10K, or 20 KΩ |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F), 5 to 95 %RH non-condensing |
| ENCLOSURE | White ABS, IP30 (NEMA 1)  84mm W x 119mm H x 29mm D (3.3” x 4.7” x 1.15”) |
| WIRING CONNECTIONS | Terminal block (14 to 22 AWG) |
| COUNTRY OF ORIGIN | Canada |