DESIGNER ROOM TEMPERATURE TRANSMITTER

TE500AS Series

The TE500AS series is a low profile, single gang, stainless steel plate 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.

PRODUCT HIGHLIGHTS

* Precision Thermistor sending element
* Mountable directly to a single gang electrical box or directly to a wall
* Insulating foam providing a thermal barrier from wall temperatures
* Two (2) wire or Three (3) wire pigtail for connection to the Building Automation System
* Models with options such as setpoint adjustment and manual override is complete with a terminal block connection
* Custom branding available

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| DESCRIPTION | ENGINEERING SPEC |
| OPERATING ENVIRONMENT | 0 to 70°C (32 to 158°F), 0 to 95 %RH non-condensing |
| TEMPERATURE SENSOR | 1000 Ω Platinum RTD, IEC 751, 385 Alpha, thin film |
| SENSOR ACCURACY | ±0.3°C (±0.54°F) @ 0°C (32°F) |
| SIGNAL OUTPUT | 4-20 mA current loop, 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 CURRENT LOOP | 2 mA nominal (occurs with shorted sensor) |
| MAXIMUM LOOP CURRENT | 22.5 mA nominal (occurs with open sensor) |
| 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) | 5 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 |
| WIRING CONNECTION | Screw terminal block (14 to 22 AWG) & Pig Tail |
| ENCLOSURE | White ABS, IP20 (NEMA 1) |
| DIMENSIONS | 114.3mm L x 69.85mm W x 31.8mm D (4.5” x 2.75” x 1.25”) |
| COUNTRY OF ORIGIN | Canada |
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SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| TRANSMITTER OUTPUT SIGNAL | Current 4-20 mA  Voltage 0-5 Vdc  Voltage 0-10 Vdc |
| TRANSMITTER RANGES | 0 to 35°C (32 to 95°F)  0 to 50°C (32 to 122°F)  Custom range, please contact Greystone |

TRANSMITTER OUTPUT SIGNAL