

The patented Pyromation RTD temperature transmitters are designed to produce a linearized 4 - 20 mA dc output current signal, which is directly proportional to the temperature of the RTD temperature sensing element. A variety of models are available for RTD sensor inputs of different element values and temperature coefficients. The model described is designed for use with RTDs that have platinum measuring elements with temperature coefficients of 0.00385 and 0.00392.



FEATURES

- Small size allows universal mounting in all Pyromation screw cover heads, thermostat housings, electrical handboxes, and surface mounting on panel subplates
- Linearized 4 - 20 mA dc outputs
- Degrees Fahrenheit or Celsius ranges
- Loop Powered (24 Vdc nominal)
- Accepts 2 or 3 wire RTDs
- Zero and Span adjustments
- 48 hour burn-in prior to calibration and shipment
- Reverse polarity protection

STANDARD MODEL SPECIFICATIONS

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|-------------------------------|--|--------------------------------|---|
| Sensor Input | 2 and 3 wire platinum RTDs 0.00385 (Pt-100, Pt-200, Pt-500 ¹ , Pt-1000 ¹) 0.00392 (Pt-100, Pt-200) Note ¹ = available in limited ranges | Linearity % of span | 0.1% 0-600°C (32-1220°F) 0.2% -200-600°C (-328-1220°F) |
| Output | 4 - 20 mA dc | Calibrated Accuracy | 0.1% |
| Supply Voltage | 9 - 36 Vdc at no load | Repeatability | 0.001mA |
| Open Circuit Detection | Upscale and Downscale | Operating Temperature | -30 to 65°C (-22 to 149°F) |
| Minimum Span | 38°C (100°F) | Temperature Influence | 0.02%/°C |
| Maximum Span | 860°C (1580°F) | Supply Voltage Effect | .001%/Vdc |
| Minimum Current | 2.6 mA dc | Zero Adjustment | ± 5 Ω typical |
| Maximum Current | 30 mA dc | Span Adjustment | ± 10 Ω typical |
| Minimum Voltage | $V_{Min} = 20mA \times R_{Load} \times 9Vdc$ | | |
| Maximum Load | $R_{Maxload} = (V_{Supply} - 9 Vdc) / 20mA$ | | |