



"SMART" Temperature Transmitter

Anderson's newest electronic temperature sensor line now includes a "Smart" transmitter module. This module can be factory or field installed in any standard (CT-1) wiring head or panel mounted up to 400 feet from the RTD element. Customer benefits include enhanced accuracy, with the flexibility of standard digital communications via the HART protocol. Detailed mechanical and performance specifications are listed below, with an updated ordering matrix on the reverse.

Specifications

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| Input: | 3 wire RTD, 100 ohm, DIN std. (.00385 ohms/ohm/°C). |
| Output: | 4-20mA, linear with temperature; Digital output signal superimposed on 4-20mA signal; "HART" compliant. |
| Isolation: | Input/Output isolated to 500V rms. (707V p-p). |
| Accuracy: | ±0.1% of Upper Range Limit (URL); Includes non-repeatability, non-linearity, and hysteresis. |
| Stability: | 0.1°C per 6 months. |
| Maximum Span: | 230°C |
| Minimum Span: | 10:1 turndown (23°C) |
| Maximum Range: | -50 to 180°C. |
| Power Required: | 14-40 VDC external loop power (unregulated). |
| Power Supply Effect: | Less than 0.005% of span per Volt. |
| Maximum Loop Resistance: | (Supply Voltage - 14) X 40 = Ohms. |
| Hazardous Locations: | Meets requirements for Class 1, Div. 1 & 2; Groups A through D for intrinsically safe apparatus when installed with barrier as required in control drawing provided. |
| RFI/EMI: | CE compliant; tested to IEC 801-2, 3, and 4 to Level 3. |
| Ambient Limits: | -18 to 50°C. |
| Ambient Effects: | ±0.13°C per 28°C temperature change. |
| Storage Temperature: | -40 to 65°C. |
| Humidity: | 0 to 100% RH |
| Vibration Effects: | Will withstand 2 g at 10-60 Hz. |
| Failure Mode: | Field Selectable, High or Low. |
| Warranty: | Two Years. |