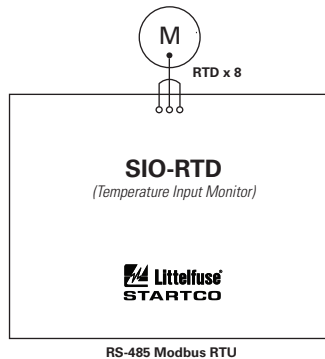


SIO-RTD SERIES

Temperature Input Monitor



Simplified Circuit Diagram



Ordering Information

| CATALOG/ SYSTEM NUMBER | CONTROL POWER, OUTPUT |
|------------------------|-----------------------|
| SIO-RTD-02-00 | 24 Vdc, Modbus RTU |

Description

The SIO-RTD is a microprocessor-based data-acquisition system for measuring temperatures accurately with resistance temperature detectors (RTDs) and for monitoring 4-20 mA analog-output devices in industrial environments. RTD inputs are noise-filtered and automatically calibrated for lead-length compensation, ambient temperature, and other factors providing accurate readings through the specified temperature range for several types of RTD devices.

Features & Benefits

| FEATURES | BENEFITS |
|--|--|
| 8 Inputs | Single module can collect multiple data points |
| CSA Class 1 Zone 2 Hazardous-location Certified | Can be mounted in hazardous areas |
| Individually-selectable Input Type | Flexible; can be used with Pt100, Ni100, Ni120, Cu10 RTD or 4-20 mA inputs |
| Conformal Coating | Protects circuit boards against corrosion and moisture |
| Remote Monitoring | Up to 1.2 km away from network master |
| Notch Filter | Rejects noise from motor monitoring applications |

For detailed wiring diagram, see page 86.

Specifications

| | |
|------------------------------|---|
| Input Voltage | 18 to 32 Vdc, 2W |
| Dimensions | H 87 mm (3.43"); W 112.5 mm (4.43"); D 56 mm (2.2") |
| RTD Types | Pt100 (default), Ni100, Ni120, Cu10 |
| RTD Range | -40 to 200° C with open and short detection |
| Analog Range | 4-20 mA |
| Accuracy | |
| (Pt100, Ni100, Ni120) | 1° C |
| (Cu10) | 3° C |
| (4-20 mA) | 0.1 mA |
| Lead Compensation | Up to 20 Ω |
| Communications | Modbus RTU® |
| Conformally Coated | Standard feature |
| Warranty | 5 years |
| Mounting | DIN, Surface |