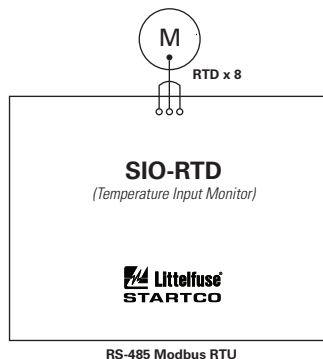


## SIO-RTD SERIES

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

For detailed wiring diagram, see page 86.

### Specifications

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