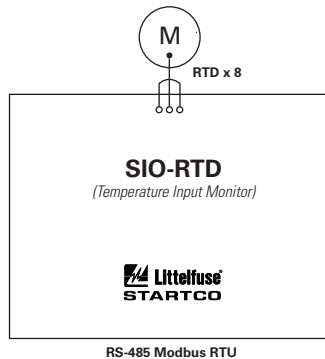


# SIO-RTD SERIES

## 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"); <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>	
<b>(Pt100, Ni100, Ni120)</b>	1° C
<b>(Cu10)</b>	3° C
<b>(4-20 mA)</b>	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