SIO-RTD SERIES

Temperature Input Monitor

Description

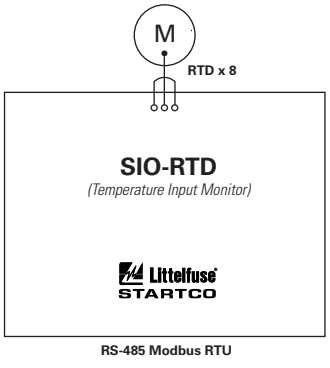
The SIO-RTD is a microprocessor-based data-acquisition system for measuring temperatures accurately with resistance temperature detectors (RTDs) and for monitoring 4-20 mA analog-output devices in industrial environments. RTD inputs are noise-filtered and automatically calibrated for lead-length compensation, 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.

Simplified Circuit Diagram



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

Ordering Information

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