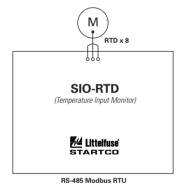
SIO-RTD SERIES

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	
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For detailed wiring diagram, see page 86.

Specifications

Analog Range

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

4-20 mA

Accuracy (Pt100, Ni100, Ni120) 1° C 3° C (Cu10) 0.1 mA (4-20 mA) **Lead Compensation** Up to 20 Ω Modbus RTU® **Communications Conformally Coated** Standard feature

Warranty 5 years Mounting DIN, Surface