



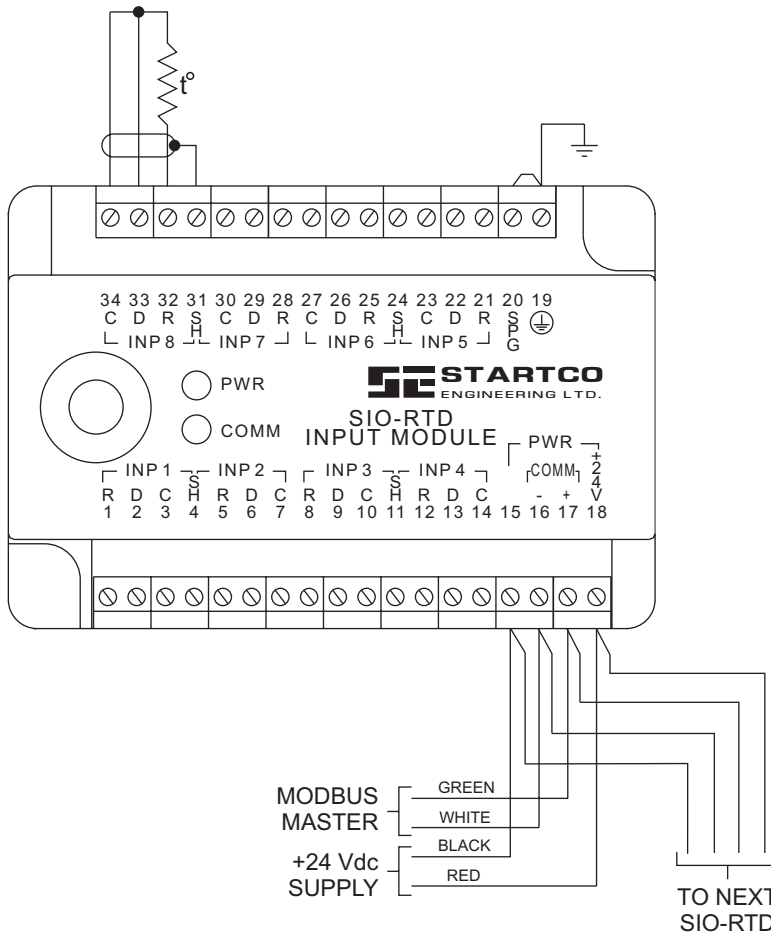
Manuals and additional information available at www.startco.ca

SIO-RTD

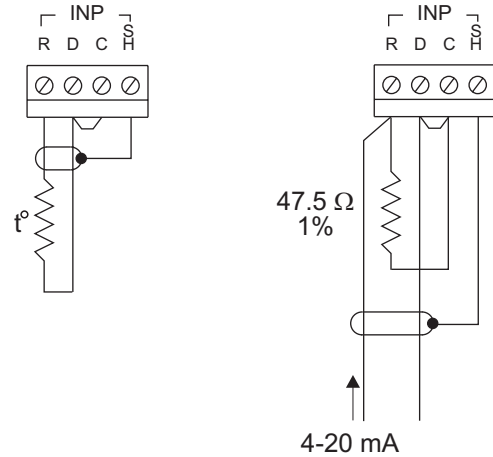
MODULE

The SIO-RTD Input Module is a data-acquisition system for measuring temperatures and monitoring analog-output devices. Each of the eight inputs can be programmed to accept one of four resistance temperature detector (RTD) types or a 4–20 mA analog input. The SIO-RTD has a TIA-485 communications interface that uses the Modbus® RTU protocol. A network master is used to configure the Input Modules and to process the measurements sent from each module. Up to sixty-three modules can be used on a network, providing up to 504 temperature and analog inputs.

TYPICAL APPLICATION



ALTERNATE CONNECTIONS



TECHNICAL SPECIFICATIONS

Supply 15 to 32 Vdc, 2.0 Watts
 Configuration 8 inputs, 3 wire RTD or 4–20 mA
 RTD Types Pt100, Ni100, Ni120, Cu10
 RTD Measurement Range . . -40 to 200°C with open and short detection
 Analog Measurement Range. 4–20 mA
 RTD Sensor Current 2 mA
 RTD Lead Compensation . . . 20 Ω maximum
 Dimensions:
 Height 87.0 mm (3.43")
 Width 112.5 mm (4.43")
 Depth. 56.0 mm (2.20") includes top-hat rail
 Shipping Weight 0.4 kg (0.9 lb.)
 Accuracy:
 Pt100, Ni100, Ni120 RTD . . 1°C
 Cu10 RTD 3°C
 4-20 mA 0.1 mA

Environment:
 Operating Temperature . . -40°C to 60°C
 Storage Temperature . . . -55°C to 80°C
 Humidity 85% Non-Condensing
 Surge Withstand. ANSI/IEEE 37.90.1-1989
 (Oscillatory and Fast Transient)
 Hazardous-Location
 Certification Class I Zone 2 EX nA II T6

Network Communications:
 Configuration. RS-485 2 wire, multidrop
 Baud Rate 19,200 baud
 Protocol Modbus RTU
 Length 1.2 km (4000 ft) maximum

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