



2080sc-NTC 4-Channel Thermistor Input Plug-In Module

for Allen-Bradley Micro830 and Micro850 Series PLCs



- 4 channels of thermistor / resistance input
- NTC thermistor support
- Fully linearized sensor data
- 250 VDC channel-to-chassis ground isolation
- Easily configured using existing programming software
- Channel selectable filtering for maximum speed with minimum noise
- Factory calibrated for best possible accuracy
- Low power consumption

Reduce System Costs

The 2080 Thermistor module is a low-cost temperature measurement module that allows you to directly interface thermistors without external signal conditioners. The 2080 plug-in module can provide fully linearized temperature measurements or a wide range of resistance inputs. Mix and match input types to reduce your analog I/O module count. Installation is simplified through plug-in technology, and costs are reduced by using a common I/O within your system.

State-of-the-Art Features

The broad variety of input types and configuration options provide unsurpassed flexibility and simplify integration. Features such as input type, open circuit detection, and high- and low-range alarms are individually programmable for each channel. Accuracy is comparable to dedicated analog input modules. The module incorporates proprietary Rockwell Automation technology ensuring operation and performance mirror existing Allen-Bradley products. Configuration is accomplished using existing programming software.

The Spectrum Controls 2080sc plug-in is compatible with Allen-Bradley Micro830 and Micro850 controllers. It offers the functionality of dedicated analog input modules without compromising performance or price.

2080sc-NTC

4-Channel Thermistor Analog Input Module

for Allen-Bradley Micro830 and Micro850 Series PLCs

Inputs per Module	4 NTC Thermistor / 2-Wire Resistance Inputs
Module Location	Micro830, Micro850
Input Types Thermistor Resistance	NTC 0-1000, 0-3000, 0-10,000 ohm
Advanced Features	5 filter frequencies (individually selectable by channel); open circuit detection
Update Times With all channels enabled	2.44 sec @ 10 Hz 0.53 sec @ 50 Hz 0.45 sec @ 60 Hz 0.15 sec @ 250 Hz 0.09 sec @ 500 Hz
Data Formats	Engineering units, Engineering units x10 Degrees F or C
Electrical Isolation (continuous)	±10 VDC channel-to-channel 500 VDC field-wiring-to-backplane
Input Impedance	>10 Mohm
Input Overvoltage Protection	+28 VDC continuous
Common Mode Rejection	90 dB @ 50/60 Hz
Normal Mode Rejection	75 dB @ 50/60 Hz
Backplane Current Required	30 mA @ 24 V max 30 mA @ 3.3 V max
Thermal Dissipation	1 Watt, maximum
Environmental Conditions Operational Temperature Storage Temperature Relative Humidity	-20° to 65°C (-4 to 149°F) -45° to 85°C (-49° to 185°F) 5 to 95% (non-condensing)
Certifications	UL/cUL (Class I, Div 2, Groups ABCD) and CE
Recommended Cable	Belden 8761 or equivalent



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