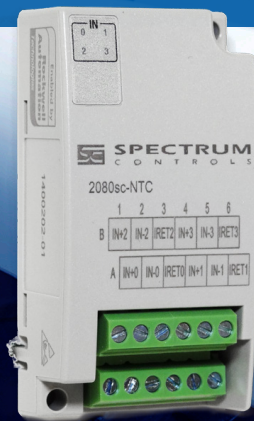# Micro800™

2080sc-NTC
4-Channel Thermistor Analog Input Module

The 2080sc-NTC Input Module provides a low-cost temperature measurement module that allows you to directly interface to thermistors without external signal conditioners in one I/O module. The 2080sc-NTC module provides fully linearized temperature measurements on a wide range of resistance inputs without compromising performance or price.

Reduce System Costs

- Four channels of thermistor/resistance (2-wire resistance) inputs.
- NTC thermistor support.
- Fully linearized sensor data.
- Easy to configure using RSLogix programming software.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- Factory calibrated for best possible accuracy.

SPECTRUM
C O N T R O L S

2080sc-NTC Specifications

Input Types	4 NTC thermistor/2-wire resistance inputs
Input Ranges	
Thermistor	NTCE
Resistance	250 ohms to 250 kohms
Resolution	16 bits
Advanced Features	5 filter frequencies (individually selectable by channel)

Update Times (ms) *	4 Hz	17 Hz	60 Hz	240 Hz	470 Hz
Per-Channel Sample Time (ms)	495	135	50	35	20

Electrical Isolation	±10 VDC channel-to-channel
(continuous)	500 VDC field wiring-to-backplane
Input Impedance	>10 Mohm
Input Overvoltage Protection	±24 VDC continuous
Backplane Current Required	26 mA at 3.3 V maximum , 10 mA at 24 V maximum
Common Mode Rejection	<1% error with 10 Vp-p
Environmental Conditions	
Operational Temperature	-20 °C - 65 °C (-4 °F - 149 °F)
Storage Temperature	-40 °C - 85 °C (-40 °F - 185 °F)
Relative Humidity	5% - 95% (non-condensing)
Thermal Dissipation	1.0 Watt, maximum
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE
Recommended Cable	Belden 8761 or equivalent
Weight	34.30 g (1.21 ozs)