

# Micro830/850/870™ 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:

- Four analog input channels: Thermistor/resistance (2-wire resistance).
- NTC thermistor support.
- Fully linearized sensor data.
- Easy to configure using Studio 5000 programming software.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- Factory calibrated for best possible accuracy.

# 2080sc-NTC Specifications



Channels Per Module	4 NTC thermistor/2-wire resistance inputs
Input Ranges: Thermistor Resistance	NTCE 250 ohms to 250 Kohms
Resolution	16 bits
Advanced Features	5 filter frequencies (individually selectable by channel)
Input Overvoltage Protection	±24 VDC continuous;
Update Times (ms) * Per-Channel Sample Time (ms)	495 ms at 4 Hz to 20 ms at 470 Hz
Electrical Isolation (continuous)	500 VDC field wiring-to-backplane
Channel-to-Channel Isolation	±10 VDC
Input Impedance	>10 Mohm
Common Mode Rejection	<1% error with 10 Vp-p
Backplane Current Required	10 mA at 24 V maximum 26 mA at 3.3 V maximum
Thermal Dissipation	1.0 Watt, maximum
Environmental Conditions Operational Temperature Storage Temperature Relative Humidity	-20 °C -+65 °C (-4 °F - +149 °F) -40 °C - +85 °C (-40 °F - +185 °F) 5% - 95% (non-condensing)
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE, UKCA, CMIM
Recommended Cable	Belden 8761 or equivalent
Weight	34.30 g (1.21. ozs)