

Micro830/850/870™ 2080sc-IF4U 4-Channel Universal Analog Output Module



The 2080sc-IF4u Input Module provides full universal analog capability in one I/O module. The 2080sc-IF4u module can replace analog input, thermocouple, and RTD modules without compromising performance. The 2080sc-IF4u provides a flexible solution for applications requiring mixed analog input:

- Four analog input channels: Voltage; current; thermocouple; or two plus one or two RTD/resistance (4-wire) inputs or two to four RTD/resistance channels.
- Fifteen input types.
- Use any combination of input types at one time.
- Individually programmable for each channel.
- Easy to configure using CCW programming software.
- Channel-selectable filtering for balancing analog update time and noise rejection.
- Cold junction compensation included for thermocouples.
- 3-wire support for RTDs.
- Accuracy is compatible with dedicated analog modules.

2080sc-IF4U Specifications



Channels Per Module	4 Voltage, Current, Thermocouple, or 2 Voltage, Current + 1 RTD, or 2 RTD, Resistance
Input Ranges:	
Thermocouple	J, K, T, E
RTD	PT385/3916 100 ohm/1000 ohm
Resistance	0-100, 0-1000, 0-3000 ohms
Current	0-20 mA, 4-20 mA
Voltage	0-100, 0-1000, 0-3000 ohms
Resolution	16 bits
Accuracy	Comparable with dedicated analog modules
Advanced Features	
Filtering	5 filter frequencies (individually selectable by channel)
Input Overvoltage Protection	±30 VDC continuous;
Input Overcurrent Protection	28 mA continuous
Input Filters	4 Hz, 17 Hz, 60 Hz, 240 Hz, 470 Hz
Data Formats	Engr. ×1, Engr. ×10
Electrical Isolation (continuous)	50 V RMS
Channel-to-Channel Isolation	None
Input Impedance	250 Ohm, current; 10 Mohms, voltage, thermocouple, RTD
Common Mode Rejection	84 dB at 50/60 Hz
Normal Mode Rejection	62 to 72 dB at 50/60 Hz
Backplane Current Required	22 mA at 3.3 V max 18 mA at 24 V max
Thermal Dissipation	1.5 Watts, maximum
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)
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), FCC, CE, UKCA, CMIM