

MicroLogix™ 1762sc-IF4OF4 4-Channel Analog Input/Output Module



The 1762sc-IF4OF4 Combination Module provides full mixed analog capability in one I/O module. The 1762sc-IF4OF4 module can replace analog input, thermocouple, and analog output modules without compromising performance or price.

- Four analog input channels: 2 Voltage only, 2 current only, thermocouple. Four analog output channels: Voltage, current.
- Three input types. Two output types.
- Ten input ranges and six output ranges.
- Use any combination of input or output types at one time.
- Each channel can be programmed individually.
- Accuracy comparable with dedicated analog modules.
- Individually programmable for each channel.
- Easy to configure using Studio 5000 programming software, add-on profile (AOP) available.
- Channel-selectable filtering for maximum speed with minimum noise.
- Cold junction compensation included for thermocouples.

1762sc- IF4OF4 Specifications



Channels Per Module (Input)	2 Current only, 2 Voltage, Current, Thermocouple inputs;
Input Ranges Thermocouple Voltage Current	J, K, T, E 0-5 V, 1-5 V, 0-10 V, ± 10 V 0-20 mA, 4-20 mA
Resolution	16 bits
Advanced Features	
Filtering	4 filter frequencies (individually selectable by channel)
Input Overvoltage Protection	± 28 VDC continuous
Input Overcurrent Protection	42 mA continuous
Update Times (ms)	495 ms at 4 Hz to 20 ms at 470 Hz single channel 1.98 s at 4 Hz to 80 ms at 470 Hz four channels
Electrical Isolation (continuous)	10 VDC channel-to-channel isolation 50 VAC continuous
Input Impedance	249 ohm, current
Common Mode Rejection	75 dB at 50/60 Hz
Normal Mode Rejection	65 dB to 74 dB at 50/60 Hz
Channels Per Module (Output)	4 Voltage, Current outputs
Output Ranges Voltage Current	0-5 V, 1-5 V, 0-10 V, ± 10 V 0-20 mA, 4-20 mA
Output Impedance Voltage Current	Greater than 1 Mohm/ Less than 1 ohm
Output Load Current Voltage	0-ohm minimum; 500-ohm maximum Greater than or equal to 1 Kohm at 10 V output (10 mA); includes wire resistance
Backplane Current Required	30 mA at 5 V maximum, 140 mA at 24 V maximum
Thermal Dissipation	3.5 Watt, maximum
Environmental Conditions Operational Temperature Storage Temperature Relative Humidity	-20 °C - 60 °C (-4 °F - 140 °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