

Analog Input Modules

F3-08AD-1 8-Channel Analog Input <----> (Replaces F3-08AD)	
Number of Channels	8, single ended (one common)
Input Ranges	4-20mA
Resolution	12 bit (1 in 4096)
Low Pass Filter	-3db @ 200Hz (-6db/octave)
Input Impedance	250ohm \pm 0.1%, 1/2W current input
Absolute Maximum Ratings	\pm 40mA
Conversion Time	1 channel per CPU scan
Converter Type	Successive approximation, MAX170
Linearity Error	\pm 1 count (0.03% of full scale) maximum
Input Stability	\pm 0.05 count
Maximum Inaccuracy	0.1% of full scale at 77°F (25°C)
Accuracy vs. Temperature	57ppm/°C maximum full scale (including maximum offset change of 2 counts)

Recommended Fuse	0.032A, Series 217 fast-acting
Power Budget Requirement	45mA @9 VDC, 55mA @ 24VDC
External Power Supply	None required
Operating Temperature	32° to 140°F (0° to 60°C)
Storage Temperature	-4° to 158°F (-20° to 70°C)
Relative Humidity	5 to 95% (non-condensing)
Environmental air	No corrosive gases permitted
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304

Note 1: Terminate all shields at their respective signal source.

Note 2: To avoid "ground loop" errors, the following transmitter types are recommended:
 2 and 3 wire: Isolation between input signal and P/S
 4 wire: Full isolation between input signal, P/S and output signal.

Note 3: A Series 217 0.032A fast-acting fuse is recommended for 4-20mA applications.

