

Analog Current Output Modules

F2-08DA-1 8-Channel 4-20mA Analog Output	
Number of Channels	8, single-ended
Output Ranges	4 to 20 mA
Resolution	12 bit (1 in 4096)
Output Type	Current sinking or current sourcing
Digital Output Points Required	16 (Y) output points (12 binary data bits, 3 channel ID bits, 1 output enable bit)
Base Power Required 5VDC	30 mA
Maximum Loop Voltage	30 VDC
External Power Supply	18 to 30 VDC, 50 mA, class 2 (add 20 mA for each current loop used)
Source Load	0-400 Ω @ 18-30 VDC
Sink Load	0-600 Ω/18V, 0-900 Ω/24 V, 0-1200 Ω/30 V
Total Load (sink + source)	600 Ω/18 V, 900 Ω/24 V, 1200 Ω/30 V
PLC Update Rate	1 channel per scan maximum (D2-230 CPU) 8 channels per scan maximum (D2-240, D2-250(-1) and D2-260 CPUs)
Conversion Settling Time	400 μs maximum (full scale change)

Linearity Error (end to end)	±2 count (±0.050% of full scale) maximum
Full Scale Calibration Error	± 12 counts max. sinking @ any load ± 12 counts max. sourcing @ 125 Ω load ± 18 counts max. sourcing @ 250 Ω load ± 26 counts max. sourcing @ 400 Ω load
Offset Calibration Error	± 9 counts max. sinking @ any load ± 9 counts max. sourcing @ 125 Ω load ± 11 counts max. sourcing @ 250 Ω load ± 13 counts max. sourcing @ 400 Ω load
Maximum Full Scale Inaccuracy @ 60°C	0.5% sinking (any load) sinking & sourcing @ 125 Ω load 0.64% sourcing @ 250 Ω load 0.83% sourcing @ 400 Ω load
Maximum Full Scale Inaccuracy @ 25°C (Includes all errors and temp drift)	0.3% sinking (any load) sinking & sourcing @ 125 Ω load 0.44% sourcing @ 250 Ω load 0.63% sourcing @ 400 Ω load
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
Terminal Type (included)	Removable; D2-16IOCON

NOTE 1: Shields should be connected to the 0V of the module.

