

Analog Output Modules

F4-08DA-2 8-Channel Analog Voltage Output <---> F4-16DA-2 16-Channel Analog Voltage Output <--->	
Number of Channels F4-08DA-2 F4-16DA-2	8, single ended (one common) 16, single ended (one common)
Output Range	0-5VDC, 0-10VDC
Resolution	12 bit (1 to 4095)
Output Type	Voltage Sourcing 10mA max.
External Load Resistance	1KΩ max./10KΩ min. (example: 10volts@ 1KΩ = 10mA load)
Crosstalk	-70dB, ± 1 count maximum
Linearity Error (End-to-End) and Relative Accuracy	± 1count maximum (10VDC at 25°C)
Full Scale Calibration Error (Offset Error Included)	± 6 counts max. (10VDC at 25°C)
Offset Calibration Error	± 3 counts max. (0VDC at 25°C)
Maximum Inaccuracy	±0.2% @ 77°F (25°C) ±0.4% @ 32 to 140°F (0 to 60°C)

Conversion Time	400µs maximum, for full scale change 4.5 to 9ms for digital out to analog out
Digital Output Points Required	F4-08DA-2 16 (Y) output points 12 bits binary data, 3 bits channel select, 1 bit output enable) F4-16DA-2 32 (Y) output points (two sets each of 12 bits binary data, 3 bits channel select, 1 bit output enable)
Power Budget Require	80mA @ 5VDC (base power)
Terminal Type (included)	Removable (D4-16IOCON)
External Power Supply	21.6-26.4VDC, 150mA, class 2
Accuracy vs. Temperature	± 57 ppm/°C full scale calibration range (including maximum offset change, 2 counts)
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

One count in the specification table is equal to one least significant bit of the analog data value (1 in 4,096).
NOTE 1: Shields should be connected to the 0V of the User Power Supply at the module terminal block.

