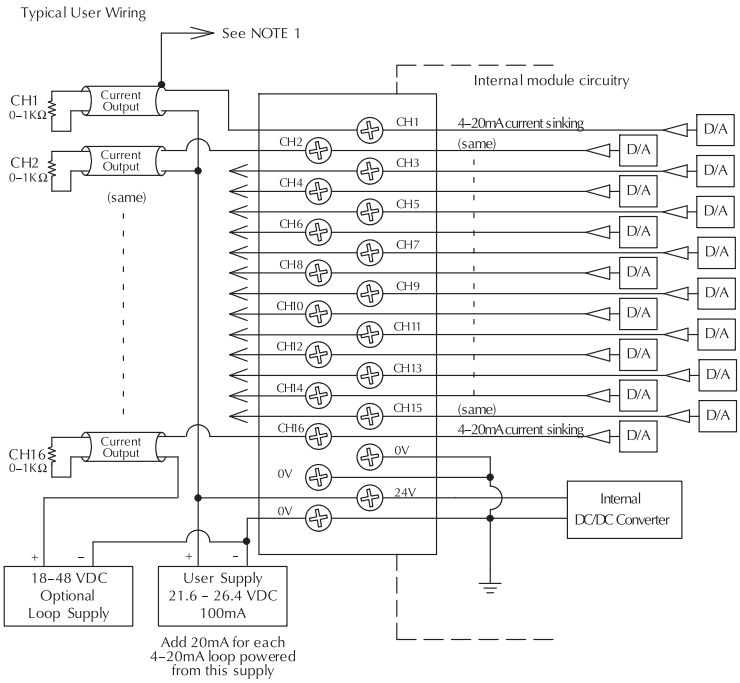
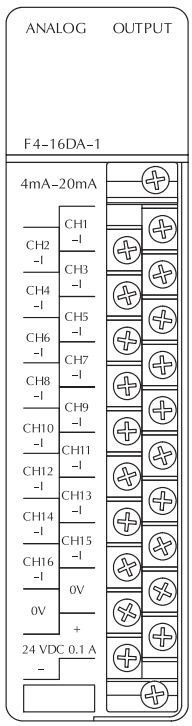
Analog Output Modules

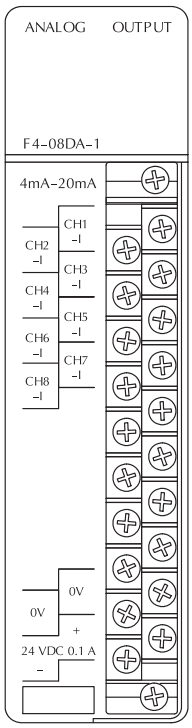
F4-08DA-1 8-Channel Analog Current Output <---> F4-16DA-1 16-Channel Analog Current Output <--->	
Number of Channels ***F4-08DA-1*** ***F4-16DA-1***	8, single ended (one common) 16, single ended (one common)
Output Ranges	4-20mA current
Resolution	12 bit (1 to 4095)
Output Type	Outputs sink 4-20mA from external supply
Peak Output Voltage	40VDC (no transient voltage suppression)
External Load Resistance	0-480Ω @ 18V, 220-740Ω @ 24V, 1550-1760Ω @48V
Maximum Loop Supply	48VDC (with load resistance in proper range)
Crosstalk	-70dB, ± 1 count maximum
Linearity Error (End-to-End) ***& Relative accuracy***	± 1 count maximum
Full Scale Calibration Error ***(offset error included)***	±8 counts max. (20.0mA at 25° C)
Offset Calibration Error	± 3 counts max. (4.0mA 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 2.25 to 4.5 ms for digital out to analog out
Digital Output Points Required	**F4-08DA-1** 16 (Y) output points (12 bits binary data, 3 bits channel select , 1bit output enable) **F4-16DA-1** 32 (Y) output points 2 sets each (12 bits binary data, 3 bits channel select , 1bit output enable)
Base Power Required 5V	90mA
Terminal Type (included)	Removable (D4-16IOCON)
External Power Supply	21.6-26.4VDC, 100mA, class 2 (add 20mA for each current loop used)
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.
NOTE 2: Unused current outputs should remain open (no connections)







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