

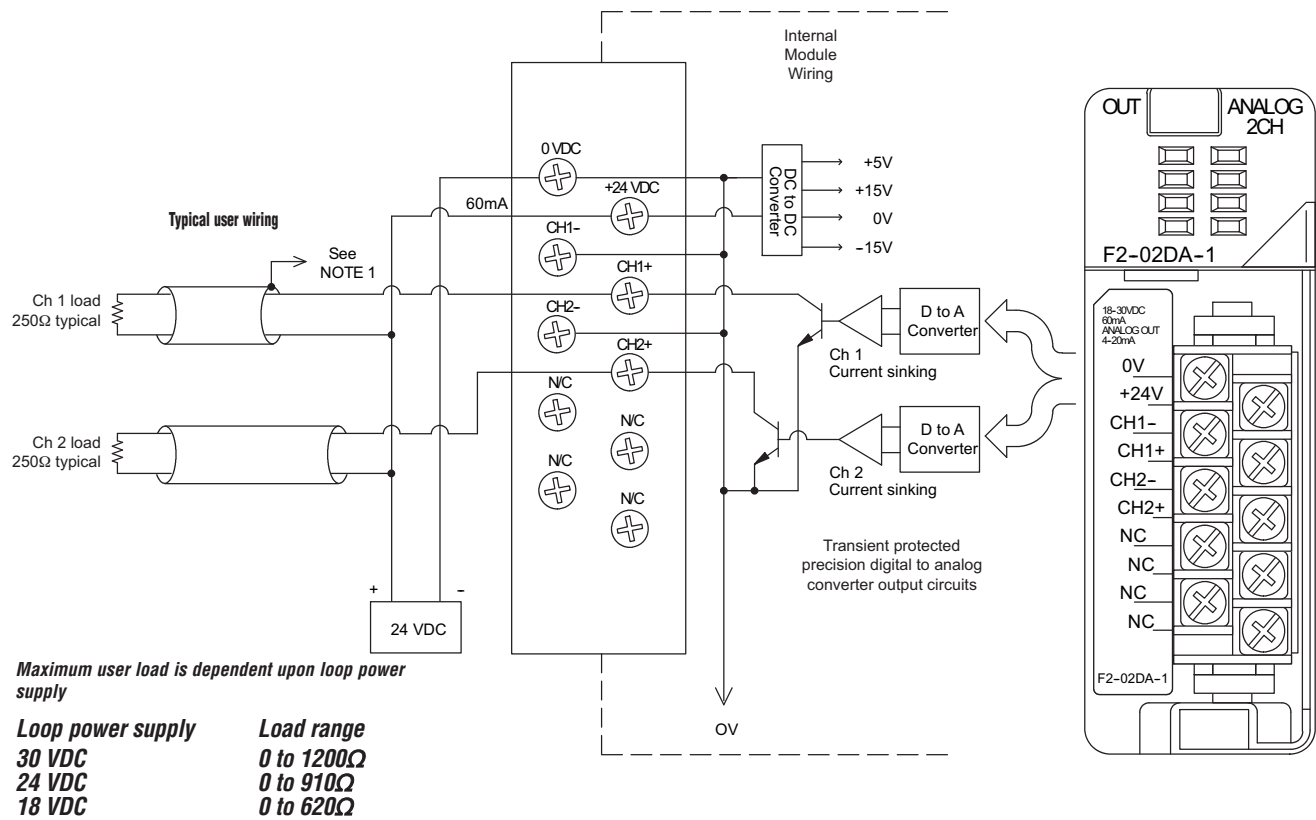
Analog Current Output Modules

| F2-02DA-1 2-Channel 4-20 mA Analog Output <---> | |
|---|---|
| This module requires a 24 VDC user power supply for operation. See the F2-02DA-1L on the next page if you want to use a 12 VDC supply. All other specifications are the same. | |
| Number of Channels | 2 |
| Output Ranges | 4 to 20 mA |
| Resolution | 12 bit (1 in 4096) |
| Output Type | Single ended, one common |
| Digital Output Points Required | 16 (Y) output points (12 binary data bits, 2 channel ID bits) |
| Maximum Loop Supply | 30 VDC |
| Peak Output Voltage | 40 VDC (clamped by transient voltage suppressor) |
| Load Impedance | 0Ω minimum |
| Maximum Load/Power Supply | 620 Ω/18 V, 910 Ω/24 V, 1200 Ω/ 30V |
| PLC Update Rate | 1 channel per scan maximum D2-230 CPU 2 channels per scan maximum (D2-240, D2-250(-1) and D2-260 CPUs) |
| Linearity Error (end to end) | ±1 count (±0.025% of full scale) maximum |
| Conversion Settling Time | 100 μs maximum (full scale change) |
| Full Scale Calibration Error (offset error included) | ± 5 counts max., 20 mA @77°F (25°C) |
| Offset Calibration Error | ± 3 counts max., 4 mA @ 77°F (25°C) |

| | |
|---------------------------------|--|
| Accuracy vs. Temperature | ±50 ppm/°C full scale calibration change (including maximum offset change of 2 counts) |
| Maximum Inaccuracy | 0.1% @ 77°F (25°C) 0.3% @ 32° to 140°F (0° to 60°C) |
| Base Power Required 5VDC | 40 mA |
| External Power Supply | 18 to 30 VDC, 60 mA. (add 20 mA for each current loop used) |
| 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; D2-8IOCON |

One count in the specification table is equal to one least significant bit of the analog data value (1 in 4096).

NOTE 1: Shields should be connected to the 0V of the module or the 0V of the R/S.
NOTE 2: Unused current outputs should remain open (no connections) for minimum power consumption.



- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC**
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Current Sensors
- Pushbuttons/Lights
- Process
- Relays/Timers
- Comm.
- TB's & Wiring
- Power
- Circuit Protection
- Enclosures
- Appendix
- Part Index