

# Analog Current Output Modules

F2-02DAS-1 2-Channel Isolated 4-20 mA Analog Output	
<b>Number of Channels</b>	2, isolated
<b>Output Ranges</b>	4 to 20 mA
<b>Resolution</b>	16 bit (1 in 65536)
<b>Output Type</b>	Current sourcing
<b>Digital Output Points Required</b>	32 (Y) output points (16 binary data bits, 2 channel ID bits, 1 output enable bit)
<b>Isolation Voltage</b>	±750 V continuous, channel to channel, channel to logic
<b>Base Power Required 5VDC</b>	100 mA
<b>Loop Supply</b>	18-32 VDC
<b>External Power Supply</b>	18-32 VDC @ 50 mA per channel
<b>Output Loop Compliance</b>	V <sub>in</sub> - 2.5V
<b>Load Impedance</b>	0-1375 Ω (@ 32 V)
<b>Maximum Load/ Power Supply</b>	375 Ω/12 V, 975 Ω/24 V, 1375 Ω/32 V
<b>PLC Update Rate</b>	1 channel per scan maximum (D2-230 CPU) 2 channels per scan maximum (D2-240, D2-250(-1) and D2-260 CPUs)
<b>Conversion Settling Time</b>	3ms to 0.1% of full scale

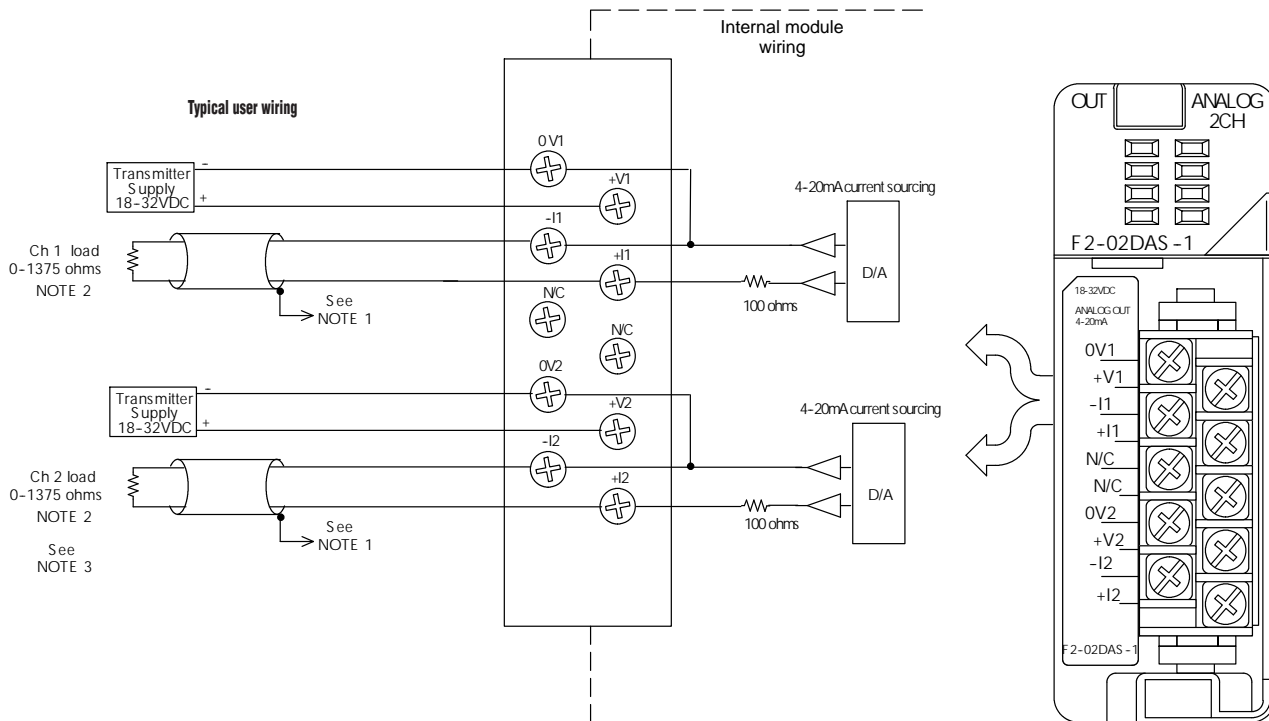
<b>Linearity Error (end to end)</b>	±10 count (±0.015% of full scale) maximum
<b>Gain Calibration Error</b>	±32 counts (±0.05%)
<b>Offset Calibration Error</b>	±13 counts (±0.02%)
<b>Output Drift</b>	50 ppm/°C
<b>Maximum Inaccuracy</b>	0.07% @ 25°C (77°F) 0.18% 0 to 60°C (32° to 140°F)
<b>Operating Temperature</b>	0° to 60°C (32° to 140°F)
<b>Storage Temperature</b>	-20° to 70°C (-4° to 158°F)
<b>Relative Humidity</b>	5 to 95% (non-condensing)
<b>Environmental air</b>	No corrosive gases permitted
<b>Vibration</b>	MIL STD 810C 514.2
<b>Shock</b>	MIL STD 810C 516.2
<b>Noise Immunity</b>	NEMA ICS3-304
<b>Terminal Type (included)</b>	Removable; D2-8IOCON

One count in the specification table is equal to one least significant bit of the analog data value (1 in 65536).

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

**NOTE 2:** Load must be within compliance voltage.

**NOTE 3:** For non-isolated outputs, connect all 0V's together (0V1...0V2) and connect all +V's together (+V1...+V2).



- 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