

# DL05/06 I/O Option Modules

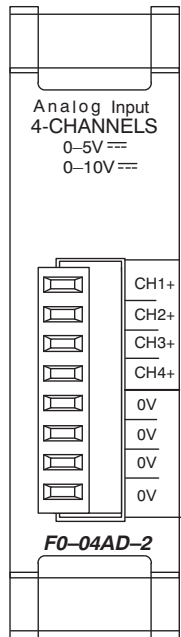
F0-04AD-2



## 4-channel analog voltage input module

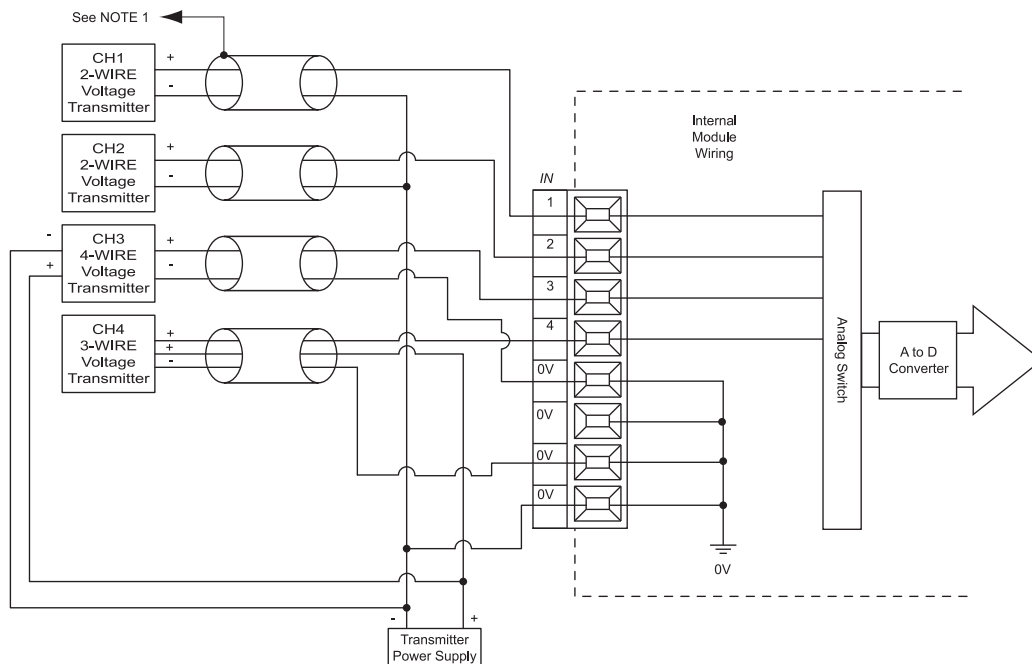
F0-04AD-2 Input Specifications	
<b>Number of Channels</b>	4, single ended (one common)
<b>Input Range</b>	0 to 5VDC or 0 to 10VDC (jumper selectable)
<b>Resolution</b>	12 bit (1 in 4096)
<b>Step Response</b>	10.0mS to 95% of full step change
<b>Crosstalk</b>	1/2 count max (-80db)*
<b>Active Low-pass Filtering</b>	-3dB at 300Hz (-12dB per octave)
<b>Input Impedance</b>	>20KΩ
<b>Absolute Max Ratings</b>	±15V
<b>Linearity Error (end to end)</b>	±2 count (0.025% of full scale) max*
<b>Input Stability</b>	±1 count*
<b>Gain Error</b>	±6 counts max*
<b>Offset Error</b>	±2 counts max*
<b>Terminal Type (Included)</b>	Removable: F0-IOCON
<b>Max Inaccuracy</b>	±0.3% at 25°C (77°F) ±0.6% at 0 to 60°C (32 to 140°F)
<b>Accuracy vs. Temperature</b>	±100 ppm/°C typical

CPU	Firmware Required	DirectSOFT32 Required
<b>DL05</b>	Version 4.60 or later	Version 3.0c or later
<b>DL06</b>	Version 1.40 or later	Version 4.0, Build 16 or later



See page 2-68 for part numbers of ZIPLink cables and connection modules compatible with this I/O module.

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



NOTE 1: Ground shields at the signal source.  
NOTE 2: Connect all external power supply commons.

## Cut PLC wiring time to minutes instead of hours

The ZIPLink wiring system eliminates the normally tedious process of wiring PLC I/O to terminal blocks. Simply plug one end of a ZIPLink pre-wired terminal block cable into your I/O module and the other end into a ZIPLink connector module. It's that easy. ZIPLinks use half the space, at a fraction of the total cost of terminal blocks.

ZIPLinks are available in a variety of styles to suit your needs, including fused, relay and sensor/LED connector modules. ZIPLinks are available for all DL05/06 Series PLC discrete and analog input and output modules.

For complete information see ZIPLinks in the Terminal Blocks and Wiring Solutions section.



## Specify your ZIPLink system

Use the Compatibility Matrix table below:

<b>Step 1</b>	Locate the I/O Module part number.
<b>Step 2</b>	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
<b>Step 3</b>	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1m, -2 = 2m <sup>1</sup>
<sup>1</sup> Note: Cable part number denotes compatibility between Connector Module and I/O Modules.	

ZIPLink Wiring System Compatibility Matrix for DL05/06 PLCs						
Step 2: Connector Module Type		Feedthrough Modules	Fuse Modules	Relay Modules	Sensor Input Modules	Pigtail Cable
Step 1: I/O Module	Number of Terminals	Step 3: Cables				
<b>Inputs</b>						
<b>DO-10ND3</b>	13	ZL-D0-CBL13#				
<b>DO-10ND3F</b>	13	ZL-D0-CBL13#				
<b>DO-16ND3</b>	24	ZL-D0-CBL24#L			ZL-D0-CBL24#L	ZL-D0-CBL24#P
<b>FO-08NA-1</b>	10	ZL-D0-CBL10#				
<b>Outputs</b>						
<b>DO-10TD1</b>	13	ZL-D0-CBL13#				
<b>DO-16TD1</b>	24	ZL-D0-CBL24#	ZL-D0-CBL24#	ZL-D0-CBL24#		ZL-D0-CBL24#P
<b>DO-10TD2</b>	13	ZL-D0-CBL13#				
<b>DO-16TD2</b>	24	ZL-D0-CBL24#	ZL-D0-CBL24#			ZL-D0-CBL24#P
<b>DO-08TR</b>	10	ZL-D0-CBL10#				
<b>FO-04TRS*</b>	13	ZL-D0-CBL13#				
<b>Combo In/Out</b>						
<b>DO-07CDR</b>	10	ZL-D0-CBL10#				
<b>DO-08CDD1</b>	13	ZL-D0-CBL13#				
<b>Analog</b>						
<b>FO-04AD-1</b>	8	ZL-D0-CBL8#				
<b>FO-04AD-2</b>	8	ZL-D0-CBL8#				
<b>FO-08ADH-1</b>	13	ZL-D0-CBL13#				
<b>FO-08ADH-2</b>	13	ZL-D0-CBL13#				
<b>FO-04DAH-1</b>	13	ZL-D0-CBL13#				
<b>FO-08DAH-1</b>	13	ZL-D0-CBL13#				
<b>FO-04DAH-2</b>	13	ZL-D0-CBL13#				
<b>FO-08DAH-2</b>	13	ZL-D0-CBL13#				
<b>FO-2AD2DA-2</b>	8	ZL-D0-CBL8#				
<b>FO-4AD2DA-1</b>	8	ZL-D0-CBL8#				
<b>FO-4AD2DA-2</b>	8	ZL-D0-CBL8#				
<b>FO-04RTD**</b>						
<b>FO-04THM**</b>						

\* Caution: The FO-04TRS relay outputs are derated not to exceed 2 Amps per point when used with the ZIPLink wiring system.

\*\* The F2-04RTD and F2-04THM modules are not supported by the ZIPLink wiring system. These modules require wire specific to the signal type.

ZIPLink Connector Modules specifications begin on page 26-56

ZIPLink Cables specifications begin on page 26-74