

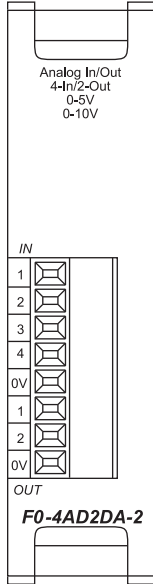
DL05/06 Option Modules

PLC Overview

DL05/06 PLC

F0-4AD2DA-2 <--->

4-channel analog voltage input
2-channel analog voltage output
module



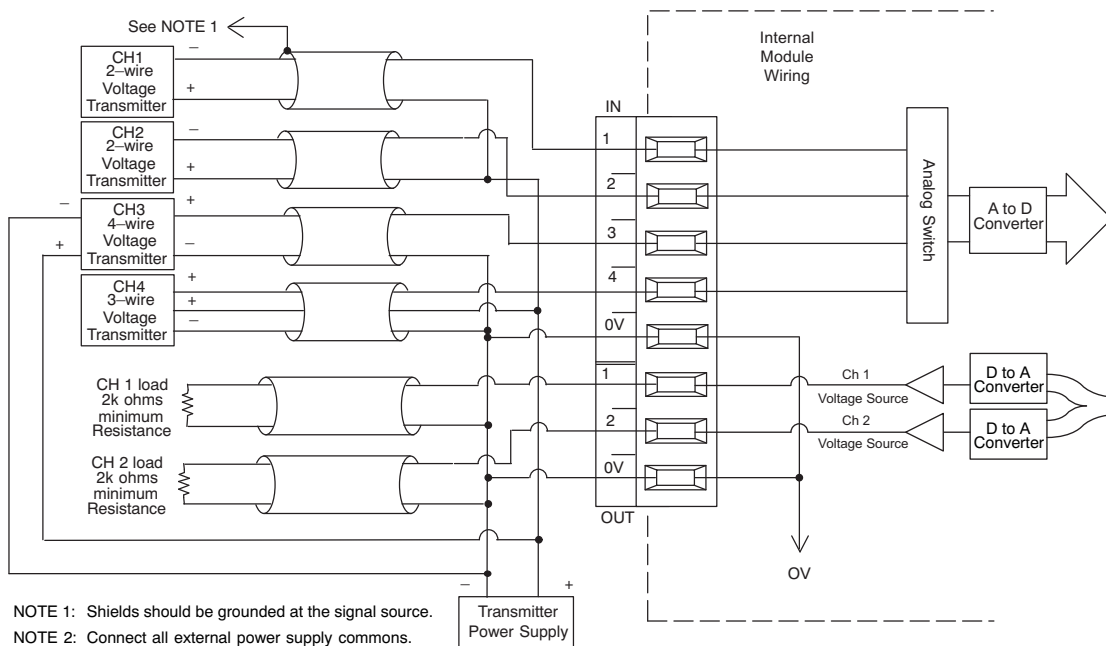
F0-4AD2DA-2 Input Specifications	
Number of Channels	4, single ended (one common)
Input Range	0 to 5VDC or 0 to 10VDC (jumper selectable)
Resolution	12 bit (1 in 4096)
Step Response	10.0mS to 95% of full step change
Crosstalk	1/2 count max (-80db)*
Active Low-pass Filtering	-3dB at 300Hz (-12dB per octave)
Input Impedance	>20KΩ
Absolute Max Ratings	±15V
Linearity Error (end to end)	±2 count (0.025% of full scale) max*
Input Stability	±1 count*
Gain Error	±6 counts max*
Offset Error	±2 counts max*
Max Inaccuracy	±0.3% at 25°C (77°F) ±0.6% at 0 to 60°C (32 to 140°F)
Accuracy vs. Temperature	±100 ppm/°C typical
Terminal Type (Included)	Removable: F0-IOCON

F0-4AD2DA-2 Output Specifications	
Number of Channels	2, single ended (one common)
Output Range	0 to 5VDC or 0 to 10VDC (jumper selectable)
Resolution	12 bit (1 in 4096)
Conversion Settling Time	50μS for full scale change
Crosstalk	1/2 count max (-80db)*
Peak Output Voltage	±15VDC (power supply limited)
Offset Error	0.1% of range
Gain Error	0.4% of range
Linearity Error (end to end)	±1 counts (0.075% of full scale) max*
Output Stability	±2 counts*
Load Impedance	2KΩ minimum
Load Capacitance	0.01μF max
Accuracy vs. Temperature	±50 ppm/°C typical



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)



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

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:

Step 1	Locate the I/O Module part number.
Step 2	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1m, -2 = 2m ¹
¹ 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				
Inputs						
DO-10ND3	13	ZL-D0-CBL13#				
DO-10ND3F	13	ZL-D0-CBL13#				
DO-16ND3	24	ZL-D0-CBL24#L			ZL-D0-CBL24#L	ZL-D0-CBL24#P
FO-08NA-1	10	ZL-D0-CBL10#				
Outputs						
DO-10TD1	13	ZL-D0-CBL13#				
DO-16TD1	24	ZL-D0-CBL24#	ZL-D0-CBL24#	ZL-D0-CBL24#		ZL-D0-CBL24#P
DO-10TD2	13	ZL-D0-CBL13#				
DO-16TD2	24	ZL-D0-CBL24#	ZL-D0-CBL24#			ZL-D0-CBL24#P
DO-08TR	10	ZL-D0-CBL10#				
FO-04TRS*	13	ZL-D0-CBL13#				
Combo In/Out						
DO-07CDR	10	ZL-D0-CBL10#				
DO-08CDD1	13	ZL-D0-CBL13#				
Analog						
FO-04AD-1	8	ZL-D0-CBL8#				
FO-04AD-2	8	ZL-D0-CBL8#				
FO-08ADH-1	13	ZL-D0-CBL13#				
FO-08ADH-2	13	ZL-D0-CBL13#				
FO-04DAH-1	13	ZL-D0-CBL13#				
FO-08DAH-1	13	ZL-D0-CBL13#				
FO-04DAH-2	13	ZL-D0-CBL13#				
FO-08DAH-2	13	ZL-D0-CBL13#				
FO-2AD2DA-2	8	ZL-D0-CBL8#				
FO-4AD2DA-1	8	ZL-D0-CBL8#				
FO-4AD2DA-2	8	ZL-D0-CBL8#				
FO-04RTD**						
FO-04THM**						

* 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