

Analog I/O Modules

The Do-more H2 Series PLC supports all analog I/O modules available for the DL205 PLC.

**F2-04AD-1****F2-04AD-2****F2-08AD-1****F2-08AD-2****F2-04RTD****F2-04THM**

Analog Input Modules			
Part Number	Number of Channels	Description	Price
<u>F2-04AD-1</u>	4	Analog Current Input	\$360.00
<u>F2-04AD-2</u>	4	Analog Voltage Input	\$393.00
<u>F2-08AD-1</u>	8	Analog Current Input	\$442.00
<u>F2-08AD-2</u>	8	Analog Voltage Input	\$469.00
<u>F2-04RTD</u>	4	RTD	\$539.00
<u>F2-04THM</u>	4	Thermocouple	\$529.00

**F2-02DA-1****F2-02DA-2****F2-02DA-2L****F2-02DAS-1****F2-02DAS-2****F2-08DA-1****F2-08DA-2**

Analog Output Modules			
Part Number	Number of Channels	Description	Price
<u>F2-02DA-1</u>	2	Analog Current Output	\$282.00
<u>F2-02DA-2</u>	2	Analog Voltage Output	\$295.00
<u>F2-02DA-2L</u> *	2	Analog Voltage Output	retired
<u>F2-02DAS-1</u>	2	Isolated Analog Current Output	\$393.00
<u>F2-02DAS-2</u>	2	Isolated Analog Voltage Output	\$428.00
<u>F2-08DA-1</u>	8	Analog Current Output	\$535.00
<u>F2-08DA-2</u>	8	Analog Voltage Output	\$482.00

* F2-02DA-2L works with external 12VDC power instead of external 24VDC power.

**F2-4AD2DA****F2-8AD4DA-1****F2-8AD4DA-2**

Analog Input/Output Modules			
Part Number	Number of Channels	Description	Price
<u>F2-4AD2DA</u>	4/2	Analog Current Input/Output	\$505.00
<u>F2-8AD4DA-1</u>	8/4	Analog Current Input/Output	\$634.00
<u>F2-8AD4DA-2</u>	8/4	Analog Voltage Input/Output	\$626.00

For more detailed specifications and wiring diagrams, please refer to the DL205 PLC section in this catalog.

Analog I/O Modules

The following table may be helpful for you to select the right modules for your application.

Analog Input Modules			
Input Type	Specification	Number of Input Points per Module	
		4	8
Current	0–20 mA		F2-8AD4DA-1 (16 bit)
	4–20 mA	F2-04AD-1 (12 bit) F2-4AD2DA (12 bit)	F2-08AD-1 (12 bit)
Voltage	0–5 V, 0–10 V, $\pm 5V$, $\pm 10V$	F2-04AD-2 (12 bit)	F2-08AD-2 (12/13 bit)
	0–5 V, 0–10 V		F2-8AD4DA-2 (16 bit)
	0–5 V, 0–156.25 mV, $\pm 5V$, ± 156.25 mV	F2-04THM (16 bit)	
RTD	Pt100, Pt1000, jPt100, CU-10V, CU-50V	F2-04RTD (0.1 degree)	
Thermocouple	Type J, E, K, R, S, T, B, N, C	F2-04THM (0.1 degree)	

Analog Output Modules				
Output Type	Specification	Number of Output Points per Module		
		2	4	8
Current	4–20 mA	F2-02DA-1 (12-bit) F2-02DAS-1 (16-bit) F2-4AD2DA (12 bit)	F2-8AD4DA-1 (16 bit)	F2-08DA-1 (12 bit)
Voltage	0–5 V, 0–10 V, $\pm 5V$, $\pm 10V$	F2-02DA-2 (12 bit) F2-02DA-2L (12 bit)		
	0–5 V, 0–10 V	F2-02DAS-2 (16-bit)	F2-8AD4DA-2 (15/16 bit)	F2-08DA-2 (12 bit)

Note 1: [F2-02DA-2L](#) works with external 12VDC power instead of external 24VDC power.

For more detailed specifications and wiring diagrams, please refer to the DL205 PLC section in this catalog.

Do-more H2 Series PLC Overview

Module Compatibility

The following table shows which DL205 components are supported by the H2-DM1 and H2-DM1E Do-more CPUs.

Module Compatibility Table					
Module	Part Number	Status	Module	Part Number	Status
Base Units	D2-03B-1	✓	Analog I/O Modules	D2-03B-1	✓
	D2-04B-1	✓		D2-04B-1	✓
	D2-06B-1	✓		D2-06B-1	✓
	D2-09B-1	✓		D2-09B-1	✓
	D2-03BDC1-1	✓		D2-03BDC1-1	✓
	D2-04BDC1-1	✓		D2-04BDC1-1	✓
	D2-06BDC1-1	✓		D2-09BDC1-1	✓
	D2-09BDC1-1	✓		D2-06BDC2-1	✓
	D2-06BDC2-1	✓		D2-09BDC2-1	✓
	D2-09BDC2-1	✓		D2-08ND3	✓
Discrete I/O Modules	D2-16ND3-2	✓	Local Expansion Modules	D2-16ND3-2	✓
	D2-32ND3	✓		D2-32ND3	✓
	D2-32ND3-2	✓	Specialty Modules	D2-32ND3-2	✓
	D2-08NA-1	✓		D2-08NA-1	✓
	D2-08NA-2	✓	Programmer	D2-08NA-2	No
	D2-16NA	✓		D2-16NA	No
	D2-04TD1	✓	Specialty Modules	D2-04TD1	✓
	D2-08TD1	✓		D2-08TD2	No
	D2-08TD2	✓		D2-16TD1-2	
	D2-16TD1-2	✓		D2-16TD2-2	✓
	D2-16TD2-2	✓		F2-16TD2P	No
	F2-16TD1P	✓		D2-32TD1	✓
	F2-16TD2P	✓		D2-32TD2	
	D2-32TD1	✓		D2-08TA	✓
	D2-32TD2	✓		F2-08TA	✓
	D2-08TA	✓		D2-12TA	No
	F2-08TA	✓		D2-04TRS	✓
	D2-12TA	✓		D2-08TR	No
	D2-04TRS	✓		F2-08TR	✓
	D2-08TR	✓		F2-08TRS	✓
	F2-08TR	✓	Programmer	D2-12TR	No
	F2-08TRS	✓		D2-08CDR	
	D2-12TR	✓			
	D2-08CDR	✓			

✓ = Supported No = Not Supported

Do-more H2 Series PLC Overview

Communications

The Do-more H2 Series PLC supports many communication protocols. The following table shows which CPU module communications port or specialty module supports each protocol.

Protocols	CPU Modules			Specialty Modules		
	<i>H2-DM1 / H2-DM1E</i>		<i>H2-DM1E</i>	<i>H2-ECOM100</i>	<i>H2-SERIO H2-SERIO-4</i>	<i>H2-ERM100</i>
	USB Port	RS-232 Serial Port	Ethernet Port			
<i>Do-more Designer Programming</i>	Yes	Yes	Yes	Yes	Yes	
<i>Modbus/RTU Client (Master)</i>		Yes			Yes	
<i>Modbus/RTU Server (Slave)</i>		Yes			Yes	
<i>Modbus/TCP Client (Master)</i>			Yes	Yes		
<i>Modbus/TCP Server (Slave)</i>			Yes	Yes		
<i>DirectLOGIC RX/WX Client (Master)</i>			Yes	Yes		
<i>DirectLOGIC RX/WX Server (Slave)</i>			Yes	Yes		
<i>K-Sequence Server (Slave)</i>		Yes		Yes	Yes	
<i>DirectNET Server (Slave)</i>				Yes		
<i>Embedded Web Server: HTTP (unsecure)</i>				Yes		Yes
<i>Ethernet: HTML (unsecure) configuration</i>				Yes		Yes
<i>HEI Ethernet Remote I/O Master</i>			Yes			Yes
<i>SMTP (EMail) Client w/Authentication</i>			Yes			
<i>Simple Network Time Protocol (SNTP) Client</i>			Yes			
<i>Do-more/PEERLINK</i>			Yes			
<i>Do-more Time Synchronization Protocol (Client, Server, Alternate Client)</i>			Yes			
<i>Do-more Logger/UDP</i>			Yes			
<i>Serial ad-hoc ASCII/Binary Programatic Control</i>		Yes			Yes	
<i>UDP ad-hoc Programmatic Control</i>			Yes			
<i>TCP Client Programmatic Control</i>			Yes			
<i>TCP Server Programmatic Control</i>			Yes			

Blank = Not Supported