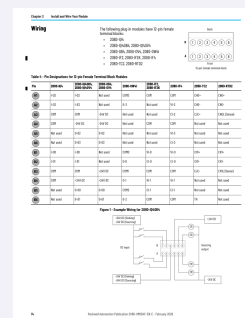


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

2080-OF2

Two-channel analog output plug-in module



PRODUCT	2080-OF2
FAMILY	Micro800 plug-in modules
FUNCTION	Two-channel analog output plug-in module
SOURCE	Allen-Bradley Micro800 plug-in modules official technical documentation

01 OFFICIAL MOUNTING AND WIRING

- Isolate the controller supply before fitting or wiring the output plug-in.
- Fit the module in a compatible Micro800 plug-in slot using the manufacturer mounting procedure.
- Wire the assigned voltage or current output and common terminals according to the official circuit diagram.
- Restore the documented output configuration and verify both channels with their connected loads.

AMIKON PRODUCT SUPPORT

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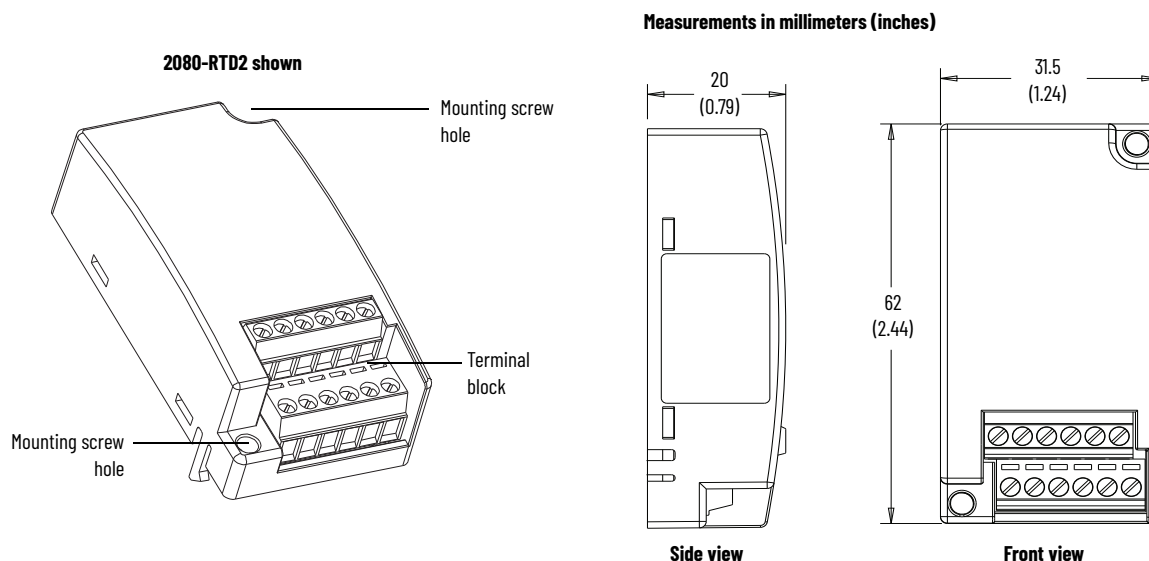
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Install and Wire Your Module

This chapter provides hardware features, installation, and wiring connection diagrams for all Micro800 plug-in modules.

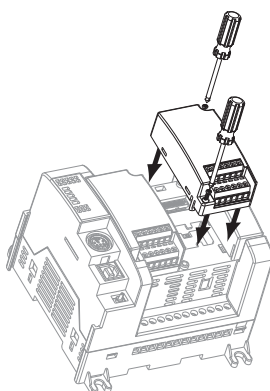
Hardware Features

The plug-in modules, except for the 2080-MEMBAK-RTC and 2080-MEMBAK-RTC2, can be plugged into any plug-in slots on the Micro800 controllers.



Insert Module into Controller

Follow the instructions to insert and secure the plug-in module to the controller.



1. Position the plug-in module with the terminal block facing the front of the controller as shown.
2. Snap the module into the module bay.
3. Using a screwdriver, tighten the 10...12 mm (0.39...0.47 in.) M3 self-tapping screw to torque specifications. See the Micro800 Programmable Controllers Technical Data, publication [2080-TD001](#) for more information.

IMPORTANT

Analog I/O performance depends on the application. For better noise immunity, cable length should ideally be less than 3 m (10 ft) because the plug-ins are non-isolated. For longer cable length requirements, use the 2085 expansion I/O modules instead.

Wiring

The following plug-in modules have 12-pin female terminal blocks:

- 2080-IQ4
- 2080-IQ40B4, 2080-IQ40V4
- 2080-OB4, 2080-OV4, 2080-OW4I
- 2080-IF2, 2080-IF2K, 2080-IF4
- 2080-TC2, 2080-RTD2

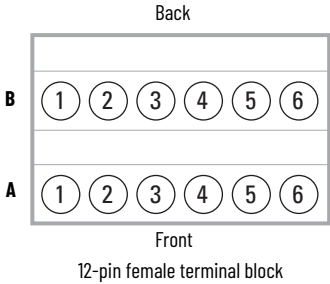


Table 4 - Pin Designations for 12-pin Female Terminal Block Modules

Pin	2080-IQ4	2080-IQ40B4, 2080-IQ40V4	2080-OB4, 2080-OV4	2080-OW4I	2080-IF2, 2080-IF2K	2080-IF4	2080-TC2	2080-RTD2
A1	I-02	I-02	Not used	COM3	COM	COM	CH0+	CH0+
A2	I-03	I-03	Not used	O-3	Not used	VI-2	CH0-	CH0-
A3	COM	COM	-24V DC	Not used	Not used	CI-2	CJC+	CH0L (Sense)
A4	COM	-24V DC	-24V DC	Not used	COM	COM	Not used	Not used
A5	Not used	O-02	O-02	Not used	Not used	VI-3	Not used	Not used
A6	Not used	O-03	O-03	Not used	Not used	CI-3	Not used	Not used
B1	I-00	I-00	Not used	COM0	VI-0	VI-0	CH1+	CH1+
B2	I-01	I-01	Not used	O-0	CI-0	CI-0	CH1-	CH1-
B3	COM	COM	+24V DC	COM1	COM	COM	CJC-	CH1L (Sense)
B4	COM	+24V DC	+24V DC	O-1	VI-1	VI-1	Not used	Not used
B5	Not used	O-00	O-00	COM2	CI-1	CI-1	Not used	Not used
B6	Not used	O-01	O-01	O-2	COM	COM	TH	Not used

Figure 1 - Example Wiring for 2080-IQ40B4

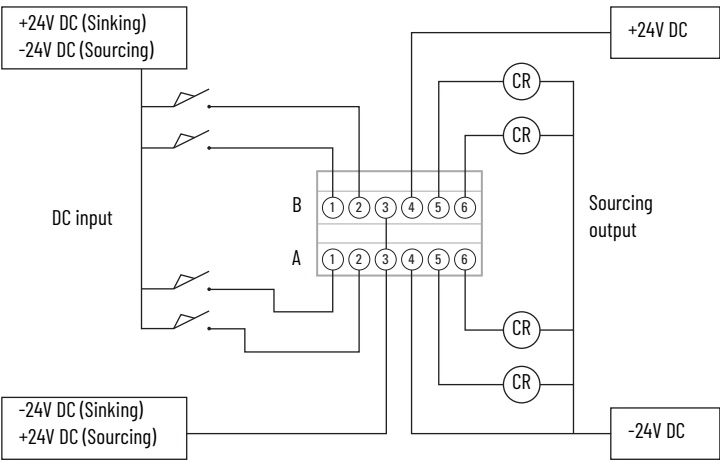


Figure 2 - Example Wiring for 2080-IQ40V4

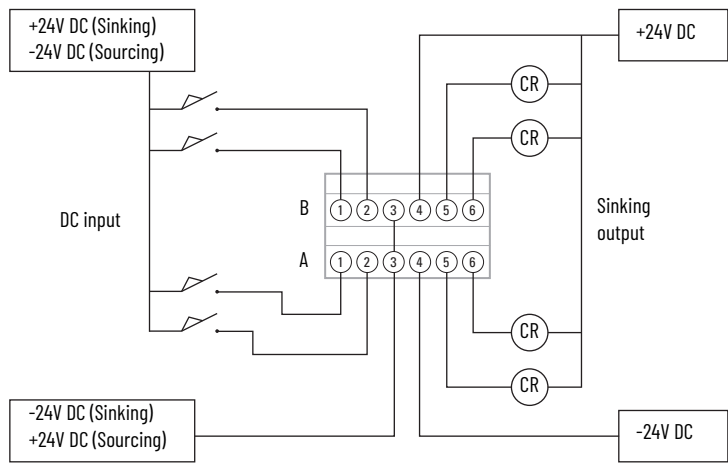
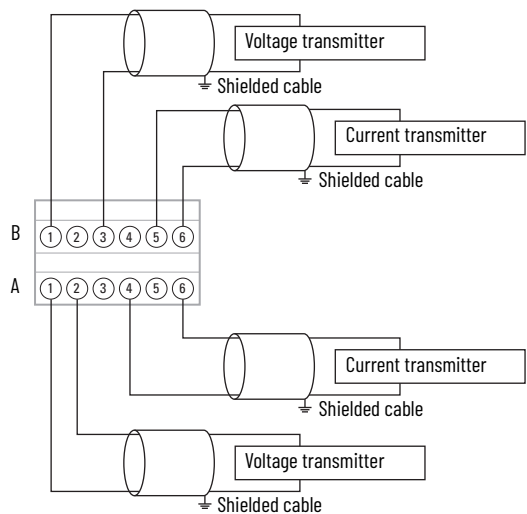


Figure 3 - Example Wiring for 2080-IF4



The following plug-in modules have 8-pin female terminal blocks:

- 2080-OF2
- 2080-SERIALISOL, 2080-SERIALISOLK
- 2080-MOT-HSC

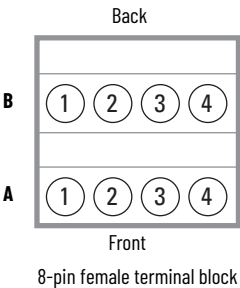


Table 5 - Pin Designations for 8-pin Female Terminal Block Modules

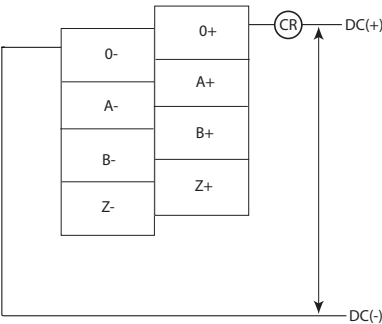
Pin	2080-OF2	2080-SERIALISOL, 2080-SERIALISOLK	2080-MOT-HSC ^{(1) (2)}
A1	COM	RS-485 B+	0-
A2	COM	GND	A-
A3	COM	RS-232 RTS	B-
A4	COM	RS-232 CTS	Z-
B1	V0-0	RS-232 DCD	0+

Table 5 - Pin Designations for 8-pin Female Terminal Block Modules (Continued)

Pin	2080-OF2	2080-SERIALISOL, 2080-SERIALISOLK	2080-MOT-HSC ^{(1) (2)}
B2	CO-0	RS-232 RXD	A+
B3	VO-1	RS-232 TXD	B+
B4	CO-1	RS-485 A-	Z+

(1) **IMPORTANT:** Individually shielded, twisted-pair cable (or the type that is recommended by the encoder or sensor manufacturer) should be used for the 2080-MOT-HSC plug-in.
(2) Sinking output/sourcing output wiring for the 2080-MOT-HSC plug-in is shown as follows.

Sinking Output Wiring



Sourcing Output Wiring

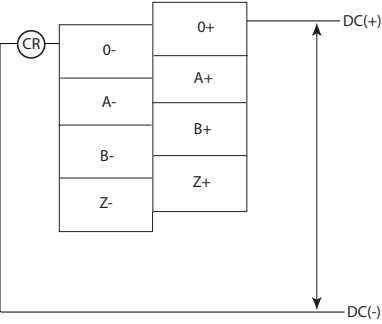
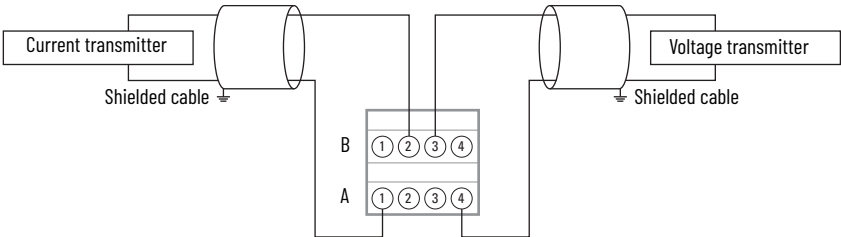


Figure 4 - Example Wiring for 2080-OF2



Serial Port to Modem Cable Pinout

When connecting Micro800 to a modem using an RS-232 cable, the maximum that the cable length may be extended is 15.24 m (50 ft).

DTE Device
(Micro800 RS-232
Isolated Serial Port Plug-
in Module)

DCE Device
(Modem, and so
on)

8-pin

25-pin 9-pin

B3	TXD
B2	RXD
A2	GND
A1	B(+)
B4	A(-)
B1	DCD
A4	CTS
A3	RTS

TXD	2	3
RXD	3	2
GND	7	5
DCD	8	1
DTR	20	4
DSR	6	6
CTS	5	8
RTS	4	7



ATTENTION: Do not connect to pins A1 and B4 for RS-232 connections. This connection causes damage to the RS-232/485 communication port.