

Installation Guide

1.0 Notice

- These instructions are for the installation of the D9052 RS-232 Bus Module in the Radionics D8024, D9024 or the D10024 Fire Alarm Control Panels (FACP). See the *Analog Fire Alarm Control Panels Programming Guide* (P/N: 38789) and the *D8024 Operator's Guide* (P/N: 35394) or the *D9024, D10024 Operator's Guide* (P/N: 74-07661-000) for programming and operating Instructions.
- Installing the D9052 in an analog Fire Alarm Control Panel (FACP) consists of:
 - Removing power from the FACP.
 - Mounting the D9052 Module on the FACP Control Module.
 - Connecting the D9052 8-wire Ribbon Connector to the Control Module.
 - Connecting the serial input/output wiring to the D9052.
 - Restoring power to the system.



These instructions contain procedures to follow in order to avoid injury or damage to equipment.

2.0 Installation Standards

- Install, test, and maintain these devices according to these instructions, NFPA 72, Local Codes, and the Authority Having Jurisdiction. Failure to follow these instructions may result in failure of the system to initiate an alarm condition. Radionics is not responsible for improperly installed, tested or maintained devices.

3.0 Description

- The D9052 is an RS-232 bus module that plugs into Port C or Port D on the D8024, and Port B or Port C on the D9024 or D10024 Control Module. It provides an optically-isolated serial interface. The D9052 is used for communication with serial devices over very short distances (up to 50 ft, 15.2 m). Used with a modem, it allows communication between networked panels, system controllers, computer graphics packages and other serial peripherals. Refer to the specific device's instructions for compatibility. The FACP powers the D9052. Each D9052 requires an additional 59 mA for FACP standby battery calculations.
- Refer to the D8024, D9024, D10024 Technogram (P/N: 73-07535-000) for device compatibility listings.

4.0 Removing Power from the FACP

- Remove AC power from the system at the dedicated 120V AC breaker, "lock out" the breaker and remove the standby battery power before making or breaking any connections to the FACP.



Disconnect all power to the FACP before installing the D9052 RS-232 Bus Module.

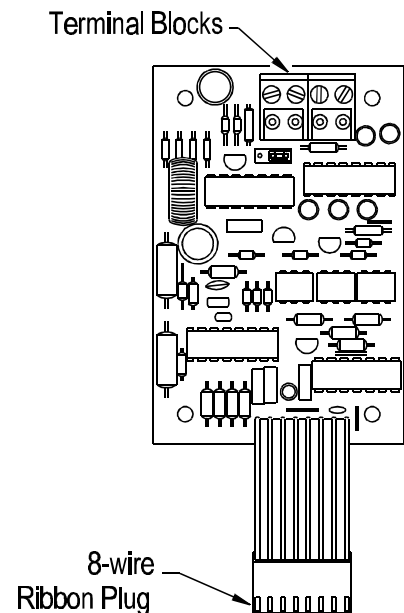


Figure 1: D9052 RS 232 Bus Module

5.0 Mounting the D9052 Module on the FACP Control Module

5.1 D10024 Attachment Points

- Depending on the circuit configurations, both the D9052 and the D9067 Circuit Modules may be mounted to the same four attachment points at Port B and Port C on the D9024 and D10024. A 10-wire ribbon socket is above an 8-wire ribbon socket at each of these two ports. See Figures 2 and 4.
- On the D10024, Port B and Port C are below the 10-wire ribbon sockets labeled PL_LOOP3 and PL_LOOP4, which are the connecting points for D9067 Polling Circuit Modules. On the D10024, the D9052 and D9067 modules can mount together above these ports.

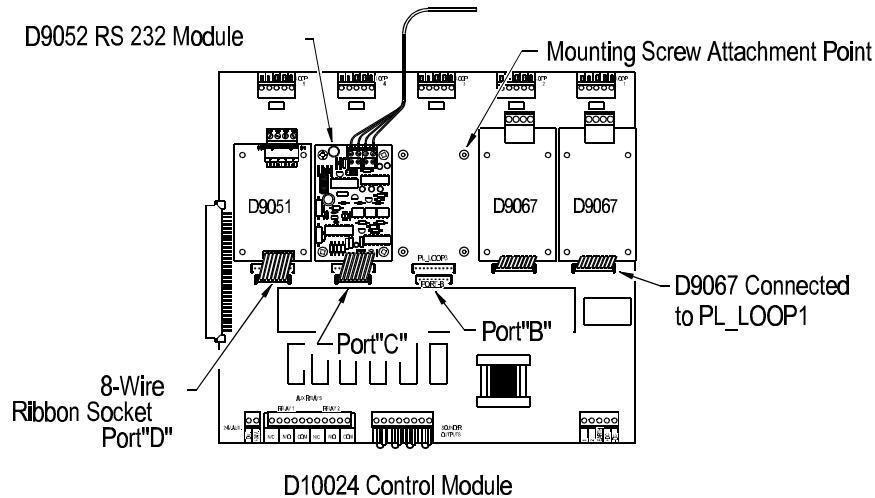


Figure 2: D10024 Control Module Configuration

5.2 D9024 Attachment Points

- On the D9024 Control Module, the D9052 and D9067 modules may mount together above Port B. Port C is reserved for RS-485 and RS-232 Modules. See Figure 3.

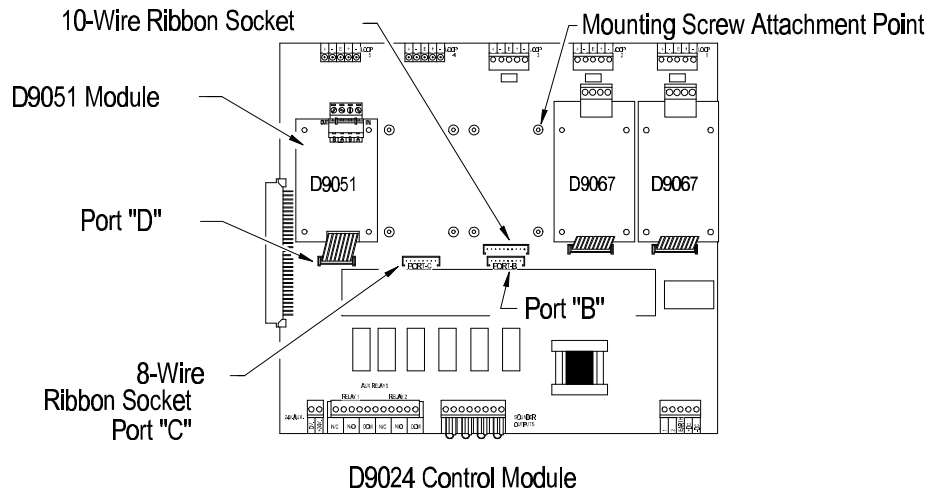
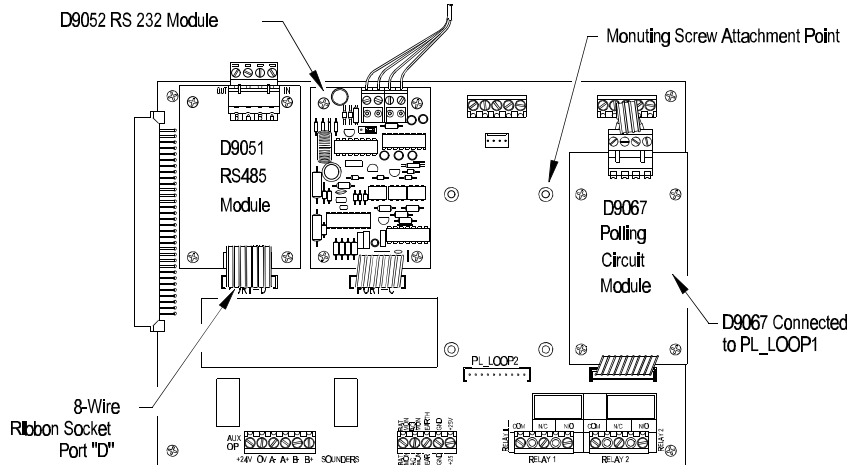


Figure 3: D9024 Control Module Configuration

5.3 D8024 Attachment Points

- The D9052 plugs into Ports C or D on the D8024 Control Module. These ports are the two ports on the left of the Control Module. See Figure 4.



5.4 Port Application

- The D9052 connects to Port B and Port C as a serial interface for dial-up or dedicated modems, serial printers, and other serial applications. Port B is a connection point for a master panel in large network systems (except on the D8024).

5.5 Mounting the D9052 Module Over the D9067 Control Module

- In a system configuration where it is necessary to mount both the D9052 Module and the D9067 Module in the same location, the D9067 module always mounts next to the Control Module board. Remove the four 6mm screws that attach the D9067 to the Control Module and replace them with the four 30 mm pillars that are included with the D9052 Module. Use the four 6 mm screws to attach the D9052 to the 30 mm pillars. See Figures 2, 3, 4 and 5..

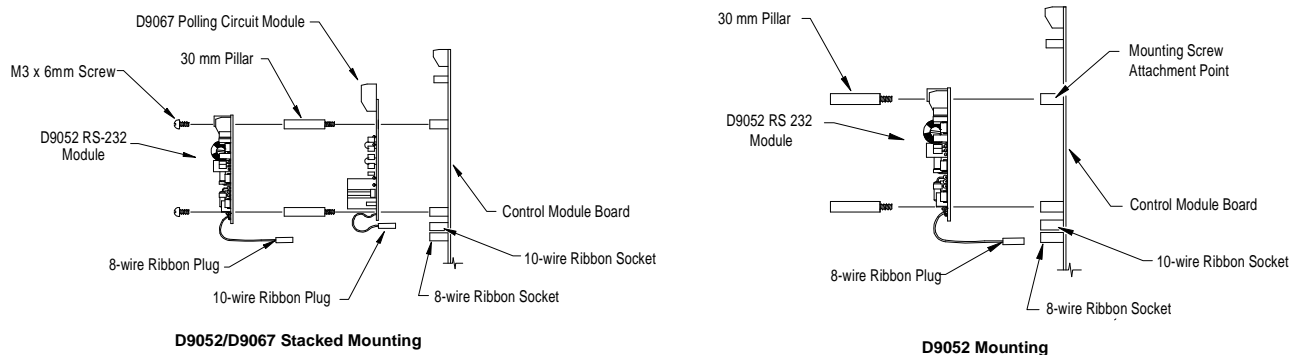


Figure 5: Mounting the D9052 RS-232 Module

5.6 Mounting the D9052 Directly to the Control Module

- To mount the D9052 by itself, use the four pillars to attach the module directly to the Control Module. See Figure 5.

6.0 Module to Control Module Connection

- The 10-wire ribbon connector from the D9067 Polling Circuit Module plugs into the 10-wire socket immediately below it. The D9052 8-wire ribbon connector plugs into the lower socket.



Do not try to plug the 8-wire ribbon connector into the upper (10-wire) socket.

7.0 Connecting the Serial Input/ Output Wiring to the D9052

- The serial input/output (modem) wiring connects to the D9052 module at the terminal block at the top of the module. See Figure 6.

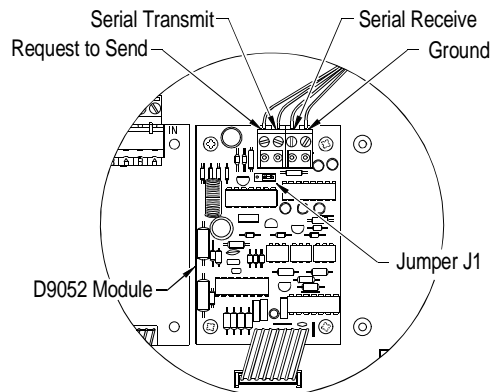


Figure 6: Serial Input/output Connections

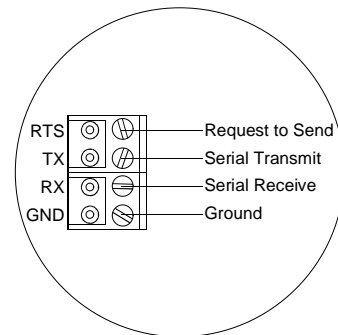


Figure 7: D9052 Terminal Block Connections

- The D9052 optically isolates the serial input/output signal. Change the position of Jumper J1 to invert the request to send signal. The default position is to the right as shown in Figure 6.

8.0 Restoring Power to the System

- Connect the standby batteries and close the 120V AC dedicated breaker that controls the power input to the FACP. The green AC Power LED on the panel display lights to show that the 120V AC power supply is on and the standby power supply is connected.

9.0 Specifications

Model Number	D9052
Operating Current Draw	59 mA/module
Operating Temperature	32°F to 120°F (0°C to 49°C)
Maximum Humidity	85% RH-Non Condensing (@104°F, 40°C)
Dimensions	2 in. W x 3 in. H (5.1 cm W x 7.62 cm H)



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1800 Abbott Street, Salinas, CA 93901, USA

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