

Installation Instructions

Description

These instructions are for the installation of the D9067 Polling Circuit Module in the Radionics D9024 or the D10024 Fire Alarm Control Panel (FACP).

Analog measuring devices report to the FACP over a polling circuit through a Polling Circuit Module. The D10024M motherboard has five expansion slots for the D9067 Polling Circuit Module, and the D9024M has three.

Each analog device has a specific address point, which is established by setting dip switches located on the device. The address point is independent of the physical location of the devices in the circuit.

The FACP supervises and responds individually to each analog device in each circuit. Each D9067 Polling Circuit can support up to 126 address points.

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 detector to initiate an alarm condition. Radionics is not responsible for improperly installed, tested or maintained detectors.

CAUTION is used in these instructions to indicate procedures to follow to avoid damage to equipment.

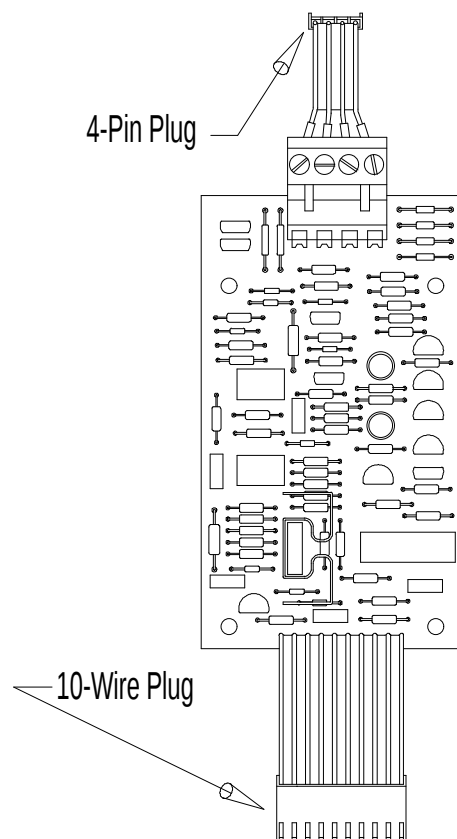


Figure 1: D9067 Polling Circuit Module

A. Operation

In the analog system, devices receive power and communicate with the control panel over a two-wire Polling Circuit that connects to the Polling Circuit Module. Any devices in the system that are not analog and connect to the DCP bus must be powered from a separate pair of conductors.

When the analog system is powered up, the control panel down-loads a number of parameters, which have been programmed into the panel and are stored in the Central Processing Unit (CPU), to each analog device. Each device is programmed for:

- Alarm Level, High Sensitivity
- Alarm Level, Low Sensitivity
- Service Level

Other parameters can be programmed and controlled for each device, some of them automatically by the system's "auto learn" mode.

See the Installation Instructions, the Operator's Manual, and the Programmer's Guide for the FACP for information on polling circuits, point addressing, and programming.

B. D9067 Installation

B.1. Scope of Instructions

These instructions are for the installation of a D9067 Polling Circuit Module in an existing D9024 or D10024 FACP to expand the capacity of the system. See the Installation Instructions for the FACP for information on polling circuit length and configuration.

The polling circuit wiring connects to the Data Terminal Blocks at the top of the Control Module. See Figure 2. D9067 Modules mount in the slot below the Terminal blocks, beginning at the right side of the board, connecting the circuit wiring to the Control Module.

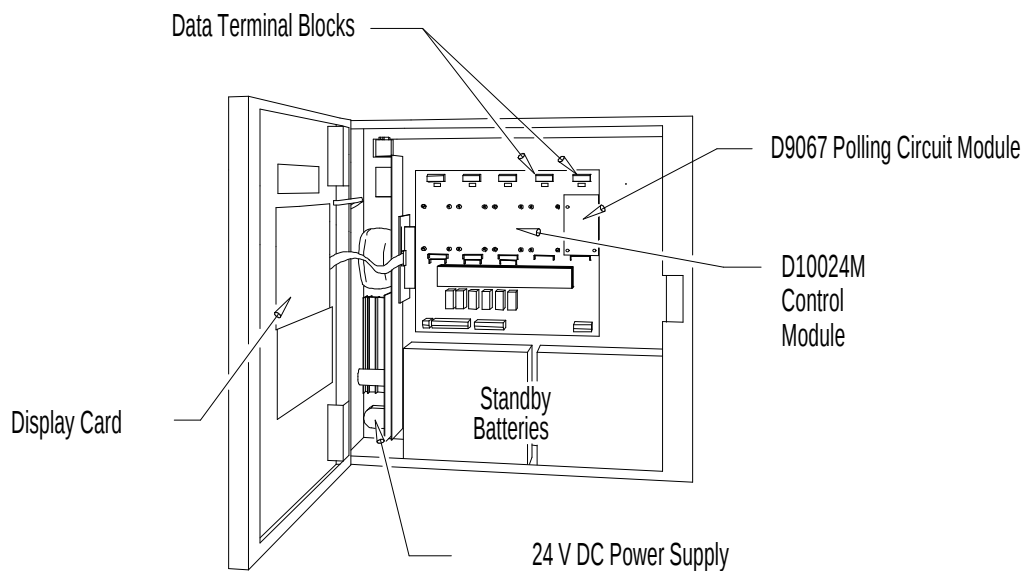


Figure 2: D10024 FACP

These instructions cover:

- Depowering FACP
- Mounting of the D9067 Polling Circuit Module on the Control/Communicator
- Connecting the module to the Control/Communicator and to the polling circuit
- Restoring power to the system

B.2. Depowering the FACP

Caution: Inform the operator and the local authority before installing this module in an existing system. Disconnect all power to the Fire Alarm Control Panel before installing this module.

Remove AC power from the system at the dedicated 120V AC breaker and remove the standby power from the batteries before making or removing any connections to the FACP.

B.3. Mounting the D9067 Module

Mount the D9067 Polling Circuit Module on the Control Module, using the screws and stand-offs provided with the module. Begin on the right side of the board in the first available slot not occupied by a D9067 Module. If the slot is occupied by an RS 485 bus module or an RS 232 module, remove that module and attach the D9067 to the Control Module. Reinstall the other module over the D9067. See Figure 3.

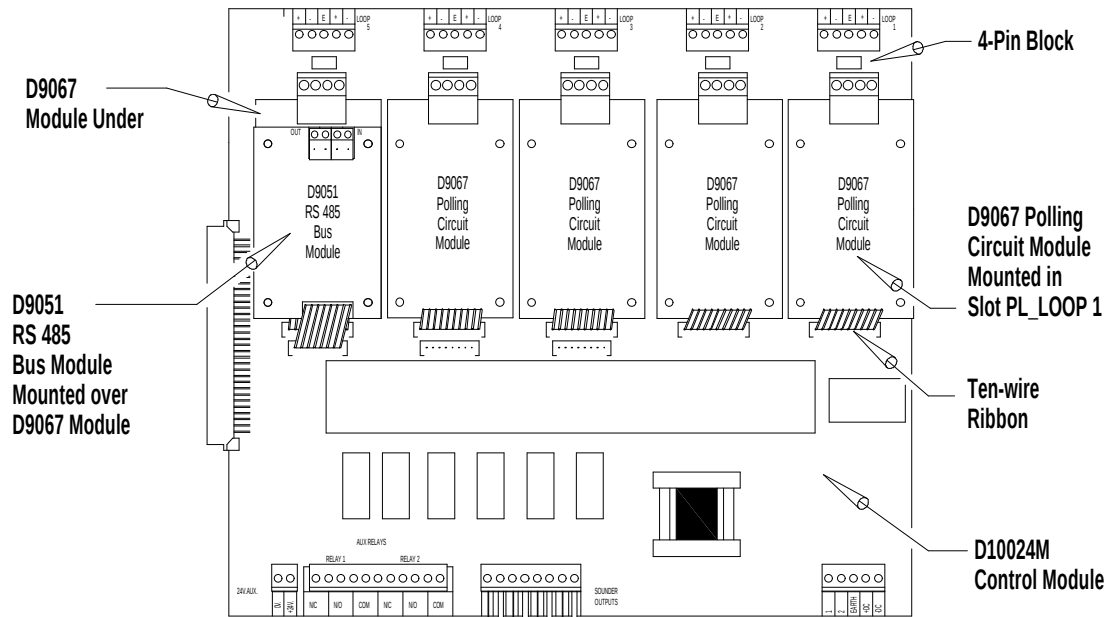


Figure 3: D10024M Control Module with Five D9067 Modules Installed

B.4. Connecting the D9067 Module

The D9067 10-wire ribbon connects to the 10-pin block immediately below it. The four-pin plug attached to the top of the module connects to the four-pin block immediately below the Data Terminal Blocks at the top of the Control Module.

B.5. 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.