

Specifications

Features

- Analog design using advanced communications protocol 80-character LCD display
- Custom text annunciation
- Up to 252 addresses in stand-alone system
- Network compatible with D9024 and D10024 FACP's, as well as other D8024 FACPs
- Expandable modular design
- 24 VDC 2.5 A power supply and battery charger
- Programmable sensitivity levels by device
- Programmable "day/night" sensitivity levels
- PC programmable
- Service Mode Polling
- Electrical overcurrent protection on any auxiliary powered circuit with trouble source annunciation
- Fire Test Mode
- Event Activity Logger
- Optional Local Printer
- Suitable for ADA applications
- Meets NFPA National Fire Code standards

Description

The Radionics D8024 is an expandable analog Fire Alarm Control Panel (FACP) that provides point identification through addressable analog devices.

Each D8024 has two expansion slots to accommodate plug-in polling circuit modules. Each module supports 126 analog addresses, giving the panel a potential of 252 addressable points. Flexibility in system design allows the option of grouping device points together and identifying them as one location or zone in order to simplify system operation.

The front panel display has LED status displays showing power, trouble, supervisory, alarm and reset conditions in addition to an 80-character alphanumeric LCD annunciator that provides programmed device point information.

Active devices are identified through custom text and LEDs at the Front Panel Display and at the annunciators.

The Fire System Controller built into the front panel display provides total system control. Its keypads allow event viewing, device control and installation and end user programming. It has four System Control keys to silence alarms, silence trouble sounders, initiate a drill and reset the system.



D8024 Analog Fire Alarm Control Panel

The D8024 has two on-board notification appliance circuits that can be expanded with an addressable NAC module. These circuits are programmable with specific alarms (patterns) and timed output.

The panel polls devices regularly for levels of contamination. Device levels that exceed the service threshold result in a service message rather than an alarm. The system supports "drift compensation" for slightly dirty devices.

The "day/night" sensitivity program allows an increased sensitivity level during periods of reduced occupancy, resulting in increased security and reduced likelihood of alarm errors.

The system can be programmed at the site using the on-board programming software.

The panel stores all events in its memory logger (up to 500 events), recording the time, date, event and point ID for each event. Events include alarms, restorals, trouble and system status events. The events stored in memory can be retrieved and displayed at the panel.

Application

The D8024 supports complex installations such as schools, universities, manufacturing plants, health care facilities and high rise buildings. The D8024 is compatible with a diverse line of Radionics initiating devices and alarm notification appliances.

Networking

The D8024 may be combined with up to three D9024 or D10024 FACPs in a Shared Zone Network, or with up to nine other FACPs in a Report and Control Network.

Specifications

D8024 Specifications	
Operating Voltage	120 VAC, 60 Hz
Operating Current	Control: 325 mA Polling Circuit: 30 mA / circuit + sensor load
Power Supply	24 VDC Nominal @ 3 A
Notification Appliance Circuits (Sounder Outputs)	2 programmable, 1 A/output max. 2.2 kΩ supervised EOL resistor
On-board Relays (dry contacts)	2 Form "C" contacts rated @ 5 A, 250 VAC max. /relay
Sensor Circuit	Supports 1 or 2 D9067 loop driver modules up to 7,200 ft. (2,195 m) 16 AWG (1.5 mm) per loop. No special wire requirements supports Class "A" wiring
Maximum Devices	126 per circuit, 2 circuit max.
Sensor Circuit Protection	Power limited, automatic over current protection
Display	2-line by 40-character back lit liquid crystal display 20 LED fire zone indicators 20 LED zone fault indicators 10 LED system indicators
Keyboard	Membrane w/Snap Dome Alphanumeric 21-key keypad
Dimensions H x W x D	15.5 in. x 15.75 in. x 5.5 in. (39 cm x 40 cm x 14 cm)

Listings and Approvals

- UL listed
- CSFM approved

Ordering Information

Model	Description
D8024	Complete Basic System
D9051	RS-485 Bus Module
D9052	RS-485 Bus Module
D9053	LED Display, 40 Zones
D9055	3A Indicating Circuit Booster
D9067	Analog Polling Circuit Module
D9069	Fire System Annunciator
D9070	Fire System Controller
D9072	Indicating Circuit Module, 4-output
D9073	RS-485 Bus Module, High Integrity
D9078	LED Driver Module
D321A	6 in. (15 cm) Analog Detector Base
D322A	Analog Heat Detector Head
D323A	Analog Photoelectric Smoke Detector Head
D324A	Analog Ionization Smoke Detector Head
D325A	Analog Addressable Manual Fire Alarm Box
D326A	Point Contact Monitoring Module
D327A	Addressable NAC Module
D328A	Addressable Relay Module
D334A	Point Contact Monitoring Module
D336A	4 in. (10 cm) Analog Detector Base
D339A	Micro Point Contact Module

