

Features

- Analog design using advanced communications protocol
- 80-character LCD display
- Custom text annunciation
- Up to 630 addresses in stand-alone system
- Up to 2,520 addresses in 100 zones in a four-panel Shared Zone Network
- Report and Control Network capacity of ten panels
- Expandable modular design
- indicating (output) circuits
- 24 V DC, 3 Amp power supply and battery charger
- Programmable sensitivity levels by device
- Programmable “day/night” sensitivity levels
- 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 72 National Fire Code standards

Description

The Radionics D10024 Fire Alarm Control Panel (FACP) provides point identification through integrated, addressable, analog devices.

Each D10024 has five expansion slots to accommodate polling circuit modules. Each module supports 126 analog addresses, giving the panel a potential of 630 addressable points. Flexibility in system design allows the option of grouping device points together and identifying them as one location or zone, further expanding the system coverage.

The Front Panel Display has LED status displays showing power, trouble, alarm, and reset conditions, and an 80-character alphanumeric LCD annunciator that provides programmed device point information.

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, reset detectors, and reset the system. Reporting devices are identified through custom text and LEDs at the Front Panel Display and at the annunciators.

The D10024 has four on board circuits for indicating devices and supports up to 100 programmable and addressable remote indicating circuits for auxiliary control. These circuits are programmable for specific alarm 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 “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.

Networking

Up to four FACPs may be connected in a Shared Zone Network with up to 2,520 addressable points in 100 zones.

Nine independently operating FACPs may report to a dedicated Master FACP in a Report and Control Network.

Application

Schools, universities, manufacturing plants, health care facilities, and high rise buildings are some of the more complex installations the D10024 is designed to support. It is compatible with a diverse line of Radionics initiating and indicating devices.

Specifications

Model Number	D10024
Operating Voltage	120 V AC Primary
Operating Current	Control: 325 mA Polling Circuit: 30 mA /circuit + sensor load
Power Supply	24 V DC Nominal at 3 A
Indicating Circuits (Output)	4 Programmable Supervised 1 amp/output max Total Current = 2 A
On-board Relays	2 Form "C" contacts rated at 5 A, 250 V AC max. per relay
Sensor Circuit	2-wire analog addressable circuit to operate with addressable/ analog protocols
Maximum Devices	126 per circuit, 5 circuit max.
Sensor Current	150 mA typical
Sensor Circuit Protection	Short circuit protection on-board (without isolators in circuit)
Display	2-line by 40-character back lit liquid crystal display 40 or 80 LED zone Fire indicators 40 or 80 LED zone Fault indicators 10 LED System indicators
Keyboard	Membrane with Snap Dome Alphanumeric 21-key keypad
Printer	40-character remote (optional)

Listings and Approvals

- Underwriters Laboratories
- CSFM:
- NYC-MEA: (submitted)
- FM: (submitted)

Enclosure Dimensions

Width:	16"
Height:	20"
Depth:	6-5/8"

Ordering Information

Model	Description
D10024	Complete Basic System
D10024M	Control/Communicator Panel
D9109A	Enclosure Assembly with door
D1605	Step Down Transformer
D9050	Front Panel Printer, 40 Character
D9051	RS 485 Bus Module
D9052	RS 232 Bus Module
D9053	LED Display, 40 Zones
D9054	LED Expansion Card, 40 Zones
D9055	3 A Indicating Circuit Booster
D9056	Portable Hand-Held Printer
D9067	Analog Polling Circuit Module
D9069	Fire System Annunicator
D9070	Fire System Controller
D9072	Indicating Circuit Module, 4-Output
D9073	RS485 Bus Module, High Integrity
D321	Analog Detector Base
D322	Analog Heat Detector Head
D323	Analog Photoelectric Smoke Detector Head
D324	Analog Ionization Smoke Detector Head
D325	Analog Addressable Manual Fire Alarm Box
D326	Point Contact Monitoring Module
D327	Addressable Indicating Circuit Module
D334	Point Contact Monitoring Module



