

## Features

- 127 addressable point system expandable to 246 addresses
- 2 supervised onboard Notification Appliance Circuits (NACs) with individual circuit silencing
- Supports up to 128 off board relay outputs with programmable alarm output options
- 24 V DC power for Sensor and Notification Alarm Circuits
- 12 V DC, 1.4 A power for accessory devices
- 16-character Fire System Controller with custom English text annunciation
- Up to 8 supervised or 32 unsupervised remote Fire Annunciators
- Fire Test Mode
- 500 event activity Logger
- Skeds service reminder for local systems
- Low Battery, AC power supply, and Battery lead supervision
- Dual phone line monitor
- Complete event reporting to receiver
- Programming modem for remote diagnostics
- Suitable for ADA applications
- Meets NFPA 72 National Fire Alarm Code Standards

## Description

The D9124 Alarm Panel is a 127-point addressable system that is expandable to 246 addressable points. The panel is programmable for fire, fire supervisory, or intrusion applications, directly through the controller, or remotely over telephone lines.

The panel receives information from alarm initiating points through integrated devices over a two-wire multiplex zone expansion system (zonex). It reports events through custom text displays on the controllers and annunciators. Each addressable point accommodates normally open and/or normally closed devices with End-Of-Line resistor supervision. Events can be reported locally or communicated to a central station by a built-in digital communicator.

System Notification Appliance capacity may be extended beyond the two supervised circuits by adding D8129 OctoRelay Modules. Up to 128 relay outputs can be operated through the Controller, through the central station, or programmed for automatic operations.

Notification Appliances may be programmed for steady, pulsed, California Uniform Fire Code, March Time, or Temporal Code 3 patterns. Temporal Code 3 patterns may be synchronized using the D411/D412 Synchronization Modules.



Two fire system controllers and one fire system annunciator are available as options. A fire system controller is visible and accessible behind a locked, clear sliding panel located on the enclosure door. It displays programmable text identifying specific initiating and supervisory devices and provides point annunciation as well as signal silence, trouble silence, detector reset, and annunciator reset. The sliding panel lock is keyed to match the Radionics manual stations for resetting the system.

The 4 A, 24 V power supply charges the standby batteries and powers auxiliary devices. It also supervises all of its critical circuits. The power supply responds to low battery or battery disconnect conditions with a Trouble LED and a Trouble Relay for sounders or lights.

Five system power trouble conditions are selected by dip switches. They can be individually identified to a central station, or grouped to activate a trouble relay, allowing a single supervised address to monitor the power supply.

A pair of 12 V batteries provide standby power. Two additional batteries provide standby power for initiating and notification devices. All four batteries are housed within the panel enclosure. Batteries are not included in the D9124 and must be purchased separately.

The D9124's memory Logger stores 500 events including time, date, point and user ID for each event. Programming options allow restriction of specific event reports to the central station receiver. A programming option allows the Logger to record certain functions entered at command centers.

The 500 events in memory may be displayed at the fire system controller(s) or may be retrieved with a single

phone call by a central station using the Radionics D5300 Remote Account Manager software package.

The D5300 remote programming software allows the following to be controlled from a central station:

- reset of notification appliances,
- activation/deactivation of remote annunciation,
- relays,
- interrogation of battery,
- point and armed status,
- enabling or disabling of reporting functions,
- shunting of reporting points during servicing.

## Options

The alarm verification feature reduces the possibility of false alarm by requiring a reset and a second alarm signal from the device before the panel raises an alarm condition.

The optional Radionics D6500 Receiver and Radionics Modem II reporting format provide individual point reporting to monitoring facilities.

The D9131A Printer Interface Module allows an on-site parallel printer to print events as they are stored in the Logger, recording time, date, account number, event, point ID, point text, and if the message has been transmitted to a receiver.

## Application

The D9124 controls complex alarm systems used in schools, universities, manufacturing plants, and health care facilities. It has keyed controller access and is suitable for installation in public access areas.

## Installation

The D9124 is a modular assembly, installed in a red 16-gauge steel enclosure, which can be surface- or flush-mounted.

## Specifications

D9124	
Primary power	120 V AC Primary (60 Hz, 360 VA)
Operating Current	Control: 462 mA Idle, 874 mA Alarm + sensor load
Aux. Power Supply	24 V DC nominal @ 1.8 amps
Notification Appliance Circuits (NAC) (Output)	2 On-board Circuits, 1.8 amp per circuit max. Total Current (Combined with 24 V Aux. Power) = 4 A. 560 Ω, 2 W EOL Resistor
Off-board Relays	Up to 16 Optional D8129 Form "C" Relay Modules (8 Relay Outputs per Module)
Sensor Technology	2-wire addressable circuit
Sensor Circuits	Up to two 8125 POPEX (Point of Protection Expander) Modules
Sensor Device Addresses per POPEX	119
Total System Addresses	246

Sensor Circuit Protection	Power limited to 4 A Short circuit, reverse polarity, thermal overload and current overload protection on-board
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Display	16-character alphanumeric vacuum fluorescent display
Keyboard	8-key Function and Navigation Keys
Remote Annunciator* (Optional)	16-Character Remote Vacuum Fluorescent Display Remote Annunciators
Remote Controller* (Optional)	16-Character 8-key Remote Vacuum Fluorescent Display Controllers
Printer	Optional (Parallel)
Operating Temperature	32° F - 122° F @ 85% Relative Humidity, Non-condensing

\* Up to 8 Supervised or 32 Unsupervised Annunciators and/or Controllers

## Dimensions

Enclosure Dimensions	Removable Door:
Width: 22-1/8"	Width: 23-5/16"
Height: 36-1/16"	Height: 37-1/16"
Depth: 3-1/16"	Depth: 1-1/16"

## Listings and Approvals

- Underwriters Laboratories
- California State Fire Marshal: 07165-0801:112
- NYC-MEA
- Factory Mutual

## Ordering Information

No.	Description	Qty.
D9124	Basic System, Includes	(1)
D9101	Enclosure Assembly with Door	(1)
D9100	Accessory Module Carrier, Inc.	(1)
D192C	Indicating Circuit Supervision Module	(2)
D928	Dual Phone Line Switcher	(1)
D1256	Fire Command Center	(1)
D9142LC	24 V DC Power Supply	(1)
D8125	Point of Protection Expander	(1) (1*)
D1601	Transformer	(1)
D9112LTB	Control/Communicator Panel	(1)

### Optional as required by expanded system

D1255R	Security/Fire Command Center	(a/r)
D1256R	Fire Command Center	(a/r)
D1257	Remote Fire Alarm Annunciator	(a/r)
D125B	Dual Class B Style A Initiating Module (D138 required)	(a/r)
D129	Dual Style D Initiating Circuit Module (D138 required)	(a/r)
D8125	Point of Protection EXpander (POPEX) (D138 required)	(a/r)
D8127	Point of Protection Transponder (D138 required)	(a/r)
D8129	OctoRelay Module (D138 req'd)	(a/r)
D8130	Release Module (D138 req'd)	(a/r)
D9131	Printer/Parallel Printer Interface Module	(a/r)
D138	Accessory Mounting Bracket	(a/r)
D5200CE	Hand Held Programmer	(*)
D126	12V, 7Ah Battery	(a/r)
D1218	12V, 17.2 Ah Battery	(a/r)

a/r: as required by the system design \* additional optional