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D9124 Addressable Fire Alarm Control Panel (FACP)



- ▶ **24 VDC, 4 A power for initiation circuits and NACs; 12 VDC, 1.4 A power for system accessories**
- ▶ **Up to eight supervised or 32 unsupervised remote annunciators**
- ▶ **One-man Fire Test Mode**
- ▶ **Schedules (Skeds function) service reminder for local systems**
- ▶ **Low battery, AC power supply, and battery lead supervision**
- ▶ **Dual phone line monitor**

The D9124 FACP controls complex alarm systems used in schools, universities, manufacturing plants, and health care facilities. Program it for fire, fire supervisory, intrusion, or access control applications. Program it locally using the D5200CE hand-held programmer or remotely using RPS over telephone lines or local-area or wide-area networks (LAN or WAN).

The D9124 FACP is a modular assembly, installed in a red steel enclosure, which can be surface- or flush-mounted. The enclosure has keyed controller access making it suitable for installation in public access areas.

Functions

Alarm Verification

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

Auxiliary and Standby Power

The 4 A, 24 VDC power supply charges the standby batteries and powers auxiliary devices. 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 linked 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 provides standby power. Two additional batteries provide standby power for initiating devices and notification appliances. All four batteries are housed within the panel enclosure.

Note Batteries are not included in the D9124 and must be purchased separately.

Central Station Communication

Events can be communicated to a central station by the digital communicator or by adding an optional Ethernet interface module. The optional Bosch D6500 or D6600 NetCom Receiver and Modem IIIa² reporting format provide individual point reporting to monitoring facilities.

The D5500 Remote Programming Software (RPS) allows the following to be controlled from a central station:

- Resetting notification appliances
- Activating or deactivating remote annunciation
- Activating or deactivating relays
- Supervising battery condition
- Setting point status and armed status
- Enabling or disabling reporting functions
- Shunting reporting points during servicing

Event Log Storage, Viewing, and Printing

The D9124's memory log stores time, date, point, and user ID for up to 1000 events. Programming options allow restricting specific event reports to the central station receiver. A programming option allows the log to record certain functions entered at command centers.

Display the 1000 events in memory at the fire system controller(s) or retrieve them with a single phone call by a central station using Bosch RPS version 3.7.025 or higher.

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

Inputs

The D9124 Control Panel is a 127-point addressable system that is expandable to 246 addressable points. The control panel receives information from alarm initiating points through integrated devices over a two-wire multiplex zone expansion system. Each addressable point accommodates both normally-open and normally-closed devices with end-of-line (EOL) resistor supervision. Each point is programmable for fire, fire supervisory, intrusion, or access control applications.

Outputs

System notification appliance capacity can be extended beyond the two supervised circuits by adding D8129 Octo-relay Modules. Up to 128 relay outputs can be operated through the controller or the central station, or they can be programmed for automatic operations.

Notification appliances can be programmed for steady, pulsed, California March Time, or Temporal Code 3 patterns. Temporal Code 3 patterns can be synchronized using the appropriate synchronization modules.

Notification Appliance Circuits (NACs)

The D9124 FACP has two supervised, on-board NACs with individual circuit silencing.

User Interface

A D1256 Fire Alarm keypad 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. It also provides point annunciation, signal silence, trouble silence, detector reset, and annunciator reset. The sliding panel lock is keyed to match the Bosch manual pull stations for resetting the system.

Also available as options are:

- D1255R Security/Fire Keypad
- D1257 Remote Fire Alarm Annunciator
- D1260 Keypad

Certifications and Approvals

Region	Certification	
USA	UL	AMCX: Central Station Alarm Units (UL1610, UL1635), APAW: Police Station Alarm Units (UL365, UL464), UOJZ: Control Units, System (UL864)
	FM	
	CSFM	7165-1615: 113 and 7170-1615: 144 July 2008
	NYC-MEA	12-92-E, Vol. IV 12-92-E, Vol. IV 12-92-E, Vol. X11 12-92-E, Vol. 12
Hong Kong	HKFSD	

Installation/Configuration Notes

Compatible Products

The following products are compatible with the D9124 FACP:

Category	Product ID	Product Description
Batteries and Power Supply Products	BATB-40	Battery box
	BATB-80	Battery box
	D126	12 V, 7 Ah standby battery
	D1218	12 V, 18 Ah standby battery
Detectors	D7038	Power supply address circuit module
	D285	Photoelectric smoke head
	D285TH	Photoelectric smoke head with heat
	D298M	Zonex smoke master base
	D298S	Zonex smoke single base
	FMM-462	Manual station
	D603	Rate-of-rise heat detector head
	D604	Fixed (135°F) heat detector head
D605	Fixed (190°F) heat detector head	
Keypads and Annunciators	D720B/R	Security and fire keypads
	D1255B/R	Security and fire keypads
	D1256	Fire command center
	D1257	Remote fire alarm annunciator
Modules	D1260	ATM keypad
	D125B	Powered loop interface module (Dual, Class B)
	D129	Initiation circuit module (Dual, Class A)
	D130	Relay module
	D136	Plug-in relay
	D192C	Bell supervision module
D192E	Bell supervision module	

Category	Product ID	Product Description
	D192G	Bell supervision module
	D8125	POPEX module
	D8125MUX	Zonex to dual multiplex interface
	D8128D	OctoPOPIT module
	D8129	Octo-relay module
	D8130	Release module
	D9127U	POPIT module (no tamper)
	D9127T	POPIT module (tamper)
	D9131A	Parallel printer interface module
	DX4020	Ethernet interface module
Programming Products	D5200CE	Handheld programmer
	RPS	Remote Programming Software
	RPS-LITE	Remote Programming Software
	RPS-INTL	Remote Programming Software

Parts Included

The D9124 Addressable Control Panel is shipped in three boxes. One box contains:

Quant.	Component
1	D9412GLTB Control Panel (less terminal blocks)

Another box contains:

Quant.	Component
1	D9101 Enclosure Assembly with Door

The third box contains a D9100 Accessory Module Carrier that includes the following:

Quant.	Component
2	D192C Indicating Circuit Supervision Modules
1	D928 Dual Phone Line Switcher
1	D8125 POPEX Module (additional optional)
1	D9142LC 24 VDC Power Supply

The third box also contains:

Quant.	Component
1	D1256 Fire Alarm Keypad
1	D1601 Transformer
1	Wiring Harness
1	Wiring Harness for the D8125 POPEX Module
2	560 Ω Resistors (for D192C Modules)
2	D161 Dual Modular Telephone Cords
1	D162 Dual Modular Telephone Cord
1	Literature pack

Technical Specifications

Environmental Considerations

Relative Humidity:	Up to 85%; non-condensing
Temperature (operating):	+32°F to +122°F (0°C to +50°C)

Inputs

Sensor Circuits:	Up to two 8125 POPEX modules, 119 addresses per module
Sensor Circuit Protection:	Power limited to 4 A; short circuit, reverse polarity, thermal overload and current overload protection on-board
Sensor Loop Technology:	Four-wire addressable circuits

Mechanical Properties

Color:	Red
Material:	16-gauge (1.5 mm) steel

Dimensions (H x W x D)

Enclosure Box:	36.1 in. x 22.1 in. x 3.2 in. (92 cm x 56 cm x 8.1 cm)
Removable Door:	37.1 in. x 23.3 in. x 1.1 in. (94 cm x 59 cm x 2.8 cm)

Outputs

Off-board relays:	Up to 16 optional D8129 Relay Modules (eight relay outputs per module)
On-board NACs:	Two; 1.8 A maximum per circuit

Power Requirements

Current (operating)	
Alarm + sensor load:	874 mA
Idle:	412 mA
Power (auxiliary):	24 VDC nominal at 1.8 A
Power (primary):	120 VAC, 60 Hz, 360 VA

Ordering Information

D9124 Addressable Fire Alarm Control Panel (FACP)	D9124
Up to eight supervised or 32 unsupervised remote annunciators	

Accessories

D113 Battery Lead Supervision Module	D113
Supervises wiring connections for two 12 V batteries connected to the same set of charging terminals.	
D122 Dual Battery Harness	D122
Harness with circuit breaker. Connects two batteries to a compatible control panel.	
D135A Low-battery Disconnect Module	D135A
Disconnects the control panel from the battery when the battery level drops to 9.5 VDC.	

Ordering Information

D127 Reversing Relay Module **D127**

Reports two separate alarm conditions to the central station.

D136 Plug-In Relay **D136**

Maximum rating is 1 A at 24 VDC or 2 A at 12 VDC. Available individually (D136) or in a package of 25 (D136-25).

D138 Mounting Bracket, Right Angle **D138**

Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.

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