

# D9412G Control Panel

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Invented for life



- ▶ Digital communicator with phone line monitor (loop or ground start)
- ▶ Multiple telephone numbers, primary and duplicate paths with main and alternate destinations
- ▶ All reports within each of four route groups are programmable
- ▶ Optional dual phone line switcher monitors two phone lines
- ▶ Optional network interface module for two-way communication over Ethernet networks

The G Series D9412G Control Panel provides an integrated solution for Access Control, Security, and Fire Alarm system applications. The control panel can monitor alarm points for intruder or fire alarms while operating user command centers and other outputs. The control panel includes a communicator that reports events to selected PSTN or IP network destinations through four programmable route groups. The D9412G Control Panel provides eight on-board points and up to 238 off-board points. It provides up to 128 relays, and up to eight access control doors. Grant access from a Wiegand style card reader connected to: a D9210B Access Control Module, a Request-to-enter or Request-to-exit input, or a keypad.

## Functions

### Programmable Outputs

- 2 A alarm power at 12 VDC
- 1.4 A auxiliary power at 12 VDC
- Four alarm output patterns
- Programmable bell test
- Programmable bell shut-off timer

The D9412G Control Panel provides up to 246 individually identified points. Each point accommodates normally open (NO) and or normally

closed (NC) devices with end-of-line (EOL) resistor supervision. Each point is programmable for fire, fire supervisory, or burglary applications.

### System Response

- 31 custom point indexes, including fire supervisory
- Selectable point response time
- Cross point compatibility
- Fire alarm verification
- Fire inspector's local test
- Watch mode
- Scheduled events (skeds) arm, disarm, bypass and unbypass points, control relays, control authority levels, control door access and more

### User Interface

- Supervises up to eight command centers (up to 32 un-supervised command centers can be used)
- Custom command center text
- Full function command menu including custom functions
- Each user has authority by area and 16-character name
- 14 custom authority levels control user's authority to change, add, delete passcodes or access control credentials, disarm, bypass points, and initiate system tests

- Adjustable brightness or volume for the keypad display or sounder



### Notice

At least one keypad per system is recommended.

### Area Configurations

Area programming offers a wide selection of different system configurations. Each area is assigned an account number to define annunciation, control, and reporting functions. Multiple areas can be linked to a shared area which is automatically controlled (hallway or lobby). Area arming can be conditional on other areas (master/associate).

### User Passcodes

User passcodes contain three to six digits. Each user is assigned one of 14 customized authority levels in each area. Passcodes can be restricted to operate only during certain times. User names can contain up to 16 characters. The user name can be viewed, printed, reported to a central station in Modem IIIa<sup>2</sup> Communications format or retrieved with Remote Programming (RPS) software.

### Communications

The D9412G has four route groups. It can sort reports by priority and transmit reports to four route groups each of which has a programmable primary and backup destination.

The D9412G is compatible with the D6600 NetCom Communications System using a DX4020 Network Interface Module. It has programmable anti-replay anti-substitution when using a DX4020.

The Modem IIIa<sup>2</sup> Communications Format, available with Bosch receivers, adds reporting capabilities such as:

- Individual point numbers and text
- Opening or closing reports by area number
- Remote programming attempts
- Diagnostic reports

### Security and Fire Detection

The D9412G Control Panel provides eight on-board points, and up to 238 additional off-board points (depending on model and expansion interfaces). Points can be individually programmed and used to monitor all types of burglar alarm, fire alarm, and supervision devices.

### Event Log

The event log stores up to 1,000 local and transmitted events. The event log includes time, date and event, with area, point and user number. You can view the event log from select keypads or remotely retrieve event information using RPS. With the printer interface module installed, you can use up to three on-site parallel printers. Use a local printer to provide a record of openings and closings without extra communications costs. RPS operators can retrieve events periodically using one phone call, rather than

receiving several calls each day. When the event log reaches a programmed threshold of stored events, it can send a report to a receiver.

Access events that can be stored, viewed or printed include:

- Access granted
- No entry
- Request-to-enter
- Request-to-exit

### Access Control

- Custom door strike, point shunt and auto disarming response by area
- Logging options for: Access Granted, No Entry, Request-to-exit, and Request-to-enter
- 14 panel-wide access levels with both manual and scheduled control

### Scheduled Events (Skeds)

The internal clock and calendar help the control panel to execute individually scheduled events (skeds).

Skeds perform a specific function such as arm or disarm, relay control, or point bypassing.

- 40 scheduled events with up to 26 different functions
- 16 open or closing windows
- Eight user windows
- Day-of-week, date-of-year, or holiday only schedules
- Four holiday schedules of 366 days each (leap year)

### Fire Test

When a user activates Fire Test Mode, the control panel suppresses all reports to the central station. Use a passcode at the keypad to activate Fire Test Mode. The keypad and annunciator show all testing data. An automatic sensor reset feature saves time; you do not need to reset the sensors manually. At the end of test, the keypad shows the number of untested points.

### Programming, Diagnostics and Controls

Users can program all system functions on-site with a D5200 Programmer, or remotely through RPS. A programmable system passcode prevents unauthorized remote programming.

The panels accommodate up to four separate telephone numbers for primary, alternate and backup receivers for automatic test reports.

When resetting alarms, arming or disarming a combination fire/burglary and/or access control system, the user is identified by name and number.

### Certifications and approvals

Region	Certification	
USA	UL	AMCX: Central Station Alarm Units (UL1610, UL1635), AOTX: Local Alarm Units (UL464, UL609), APAW: Police Station Alarm Units (UL365, UL464), APOU: Proprietary Alarm Units (UL1076), NBSX: Household Burglar Alarm System Units (UL1023), UTOU: Control Units and Accessories - Household System Type (UL985)
	FM	

Region	Certification	
	FCC	AJ9-MUL-46532-AL-E
	NYC-MEA	12-92-E, Vol. XII
Brazil	ANATEL	0049-03-1855
USA	CSFM	7165-1615:0119 FIRE ALARM CONTROL UNIT (COMMERCIAL)

### Installation/configuration notes

#### Compatible Products

<b>Keypads</b>	D1260 Series Keypads (D1260, D1260W, D1260R, D1260BLK, D1260B)
	D720 Series Keypads (D720, D720W, D720R, D720B)
	D1255 Series Keypads (D1255, D1255W, D1255R, D1255B, D1255RB)
	D1256 and D1256RB Fire Keypads
	D1257 and D1257RB Remote Fire Alarm Annunciators
	D279A Independent Zone Control
<b>Detectors</b>	D278S Four-wire Addressable Detector Base
	D285/TH Photoelectric Smoke Detector Heads
	D298S Addressable Detector Base
	OD850 Series Outdoor TriTech Detectors
	MX250 Series Smoke Detectors
	MX775i Addressable PIR Detector
	MX794i Long Range Multiplex PIR Detector
	MX934i Addressable PIR Detector
	MX938i Addressable PIR Detector
	ZX776Z PIR Detector
	ZX794Z Long Range PIR Detector
	ZX835 TriTech Microwave/PIR Detector
	ZX935Z PIR Detector
	ZX938Z PIR Detector
	ZX970 PIR/Microwave Detector
	Bosch conventional detectors include Blue Line, seismic, PIR, TriTech PIR Microwave, photoelectric, heat, and smoke.
<b>Enclosures</b>	D8103 Universal Enclosure
	D8108A Attack-Resistant Enclosure
	D8109 Fire Enclosure
	D9101 Fire Enclosure (large)
<b>Magnetic Contacts</b>	Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount.

#### Bells

D440 Bell 12 V, 15 cm (6 in.)  
D441 Bell 24 V, 15 cm (6 in.)  
MB-G10-12-R Bell 12 V, 25.4 cm (10 in.)  
MB-G10-24-R Bell 24 V, 25.4 cm (10 in.)

#### Modules

C900V2 Dialer Capture Module  
D125B Dual Class B Initiating Module  
D127 Reversing Relay Module  
D129 Class A Initiating Module  
D130 Auxiliary Relay Module  
D185 Reverse Polarity Signaling Module  
D192C Notification Appliance Circuit Module  
D192G Notification Appliance Circuit Module  
D8125 POPEX Point Expander  
D8128D OctoPOPIT Eight Point Expander  
D8125MUX Point Expander  
D8129 Octo-relay Module  
D9127 Series POPIT Modules  
D9131A Parallel Printer Interface Module  
D9210BLC Access Control Interface Module  
DS7432 Eight-input Remote Module  
DS7457i Series Single Zone Multiplex Input Modules  
DS7460i Two-input Module  
DS7461i Single-input Multiplex Module  
DS7465i Input and Output Module  
DX4010i RS-232 Serial Interface Module  
DX4020 Network Interface Module  
rvm4c Remote Video Module

#### Peripheral Hardware

##### Programming

D5200 Series Programmers  
RPS or RPS-LITE Remote Programming Software

##### Readers

ARD-R10 iCLASS Mullion Reader  
ARD-R40 iCLASS Switchplate Reader  
ARD-RK40-09 iCLASS PIN Reader  
ARD-VSMART iCLASS Reader  
D8201/W Series Low-profile Readers  
D8203/W Series Mullion Proximity Readers  
D8223 Prox Pro Reader  
D8224 Mullion Reader  
D8224-SP Switch Plate Reader  
D8225 Mini Mullion Reader

	D8227 Insert Card Reader
	D8301/W Series Low-profile Proximity Readers
	D8302 Vandal-resistant Reader
	D8303/W Series Mullion Proximity Readers
	D8304/W Series Extended Range Proximity Readers
SAFECOM Radio Communicators	WP644 Series Waterproof Pass-through Readers
	SC2104 Series Slave Communicators
	SC3100 Series Data Transfer Radio Communicators
Wireless Products	SC4000 Series Full Data Transfer Radio Communicator
	D8125INV Wireless Interface
	FA113 Keychain Remote Control
	FA116 Executive Programmer
	FA202 Wireless Smoke Detector and Transmitter
	FA203S Necklace Pendant Transmitter (Single-button)
	FA203D Necklace Pendant Transmitter (Double-button)
	FA204 Necklace Pendant Transmitter
	FA205S Belt Clip/Loop Transmitter (Single-button)
	FA205D Belt Clip/Loop Transmitter (Double-button)
	FA206DS PIR Transmitter
	FA206i PIR Transmitter
	FA207 Glass Break Detector
	FA209 Billtrap Transmitter
	FA210 Universal Transmitter (Off-White)
	FA210W Universal Wide Gap Transmitter (Off-white) with Internal Reed Switch
	FA216L Low Temperature Transmitter
	FA216H High Temperature Transmitter
	FA223S Water-resistant Pendant (White Single-button)
	FA223D Water-resistant Pendant (Black Double-button)
	FA250 High-power Universal Transmitter
	FA400 Remote Receiver
	FA404R Transmitter Receiver
	FA416R Transmitter Receiver

FA570 High Power Indoor Repeater

FA575 High Power Indoor/Outdoor Repeater

### Parts included

D9412G Components	Quantity
D9412G Board	1
Mounting Skirt	1
Faceplate with D9412G Label	1

### Technical specifications

#### Communications

SDI Bus A (+):	9 VDC 4572 m (15,000 ft)
SDI Bus B (-):	9 VDC 4572 m (15,000 ft)
Telephone Connection:	<ul style="list-style-type: none"> <li>2 TelCo lines</li> <li>D928 Dual Phone Line module required for 2 phone lines</li> </ul>

#### Environmental Considerations

Relative Humidity:	5%-85% at +30°C (+86°F), non-condensing
Temperature (Operating):	0°C to +50°C (+32°F to +122°F)

#### Number of...

Areas:	8
Card Readers (Doors):	8
Credentials (Tokens):	996
Custom Functions:	16
Relays:	128
Events:	Up to 1,000
Hardware Addresses:	246
Passcode Users:	249, plus 1 service passcode
Parallel Printers:	3
Points:	246 (8 on-board, up to 238 off-board)
Programmable Relay Outputs:	131
RF Points:	238
SKEDs:	40

#### Power Requirements

Current Draw (Minimum):	200 mA
Current Draw (Maximum):	500 mA
Output (Alarm):	2 A at 12 VDC

Output (Auxiliary, Continuous Power, and Switched Auxiliary combined):	1.4 A at 10.2 VDC to 13.9 VDC
Voltage (Operating):	12 VDC
Voltage (AC):	16.5 VAC 40 VA plug-in transformer (D1640)
Voltage (DC):	<ul style="list-style-type: none"> <li>Up to 2 12 VDC, 7 Ah sealed lead acid rechargeable batteries</li> <li>Up to 2 12 VDC, 18 Ah sealed lead acid rechargeable batteries</li> </ul>

## D9412G Kit Ordering Information

Components	Kits		
	D9412G-A	D9412G-B	D9412G-C
D9412G Board	1	1	1
D1640 Transformer	1	1	1
D8103 Enclosure with D101 Lock and Key Set			1
D8108A Attack-Resistant Enclosure with D101 Lock and Key Set	1		
D8109 Fire Enclosure with D101F Lock and Key Set		1	
D122 Dual Battery Harness		1	
D928 Dual Phone Line Switcher		1	
D161 2.1 m (7 ft) Dual Modular Phone Cords		2	

## Ordering information

**D9412G Control Panel**

Includes one printed circuit board (PCB).  
Order number **D9412G**

**D9412G Attack-Resistant Kit**

Includes one PCB, one D8108A Attack-Resistant Enclosure, and one D1640 Transformer.  
Order number **D9412G-A**

**D9412G Fire and Burglar Kit**

Includes one PCB, one D8109 Fire Enclosure, one D928 Dual Phone Line Switcher, and two D161 Dual Modular Phone Cords.  
Order number **D9412G-B**

**D9412G Commercial Burglar Kit**

Includes one PCB, one D8103 Enclosure, and one D1640 Transformer.  
Order number **D9412G-C**

**Accessories****ICP-EZTS Dual Tamper Switch**

Combination tamper switch with a wire loop for additional tamper outputs.  
Order number **ICP-EZTS**

**D101 Lock and Key Set**

Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.  
Order number **D101**

**D122 Dual Battery Harness**

Harness with circuit breaker. Connects two batteries to a compatible control panel.  
Order number **D122**

**D122L Dual Battery Harness with Long Leads**

Color-coded harness with circuit breaker and leads measuring 89 cm (35 in.). Connects 12 V batteries to compatible control panels.  
Order number **D122L**

**D126 Standby Battery (12 V, 7 Ah)**

Sealed lead-acid standby and auxiliary rechargeable power supply.  
Order number **D126**

**D137 Mounting Bracket**

Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.  
Order number **D137**

**D138 Mounting Bracket, Right Angle**

Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.  
Order number **D138**

**D928 Dual Phone Line Switcher**

Allows the control panel to operate over and supervise two separate phone lines. Only one D162 phone cord is supplied. Two additional D161 or D162 phone cords are required.  
Order number **D928**

**D1218 Battery (12 V, 18 Ah)**

A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors.

Order number **D1218**

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**D1224 Battery (12 V, 26-28 Ah)**

A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors.

Order number **D1224**

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**D1238 Battery (12 V, 38 Ah)**

A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors.

Order number **D1238**

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**D1640 Transformer**

System transformer rated at 16.5 VAC, 40 VA.

Order number **D1640**

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**D8103 Enclosure**

Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

Order number **D8103**

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**D8108A Attack Resistant Enclosure**

Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes lock and key set. Requires the D2402 Mounting Plate.

Order number **D8108A**

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**D8109 Fire Enclosure**

Red steel enclosure measuring 40.6 cm x 40.6 cm x 8.9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes a lock and key set.

Order number **D8109**

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**D9002-5 Mounting Skirt**

Mounts inside D8103, D8108A, and D8109 enclosures. Can accept up to six standard 7.62 cm x 12.7 cm (3 in. x 5 in.) cards.

Order number **D9002-5**

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**D136 Plug-In Relay**

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).

Order number **D136**

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**Software Options****RPS Kit (LPT)**

Account management and control panel-programming software with LPT connection.

Order number **D5500C-LPT**

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**RPS Kit (USB)**

Account management and control panel programming software with USB security key (dongle).

Order number **D5500C-USB**

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