

# D9412GV2 Control Panel



## Security Systems



- Fully integrated intrusion, fire, and access control allows users to interface with one system instead of three
- NetCom IP based communication option provides high-speed, secure alarm transport and control
- Eight programmable areas with perimeter and interior partitioning
- 246 points with flexible configuration options to meet multiple installation requirements
- Your choice of vacuum fluorescent or ATM style user interface command centers
- New user interface functions provide additional security and flexibility
- Up to 238 RF points

The D9412GV2 Control Panel provides an integrated solution for access control, intrusion, and fire alarm system applications. Monitor alarm points for intruder or fire alarms while operating user command centers and other outputs. The D9412GV2 Control Panel includes a communicator that sends events to selected public switched telephone network (PSTN) or IP network destinations through four programmable route groups. Program all system functions on-site through a D5200 Programmer or remotely through Remote Programming Software (RPS).

Add up to eight doors of access control using the optional D9210BLC Access Control Interface Module.

The D9412GV2 Control Panel provides up to 246 individually identified points. Each point accommodates normally-open (NO) and normally-closed (NC) devices with end-of-line (EOL) resistor supervision. Program points for fire, fire supervisory, or intrusion applications.

## 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

### System Response

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

**User Interface**

- Supervises up to eight command centers (up to 32 unsupervised 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 start system tests
- Adjustable brightness or volume for the command center display or sounder

**Note:** Use at least one command center in each system.

**Area Configurations**

Area programming offers a wide selection of different system configurations. Assign an account number to each area to define annunciation, control, and reporting functions. Link multiple areas to an automatically controlled shared area, such as a hallway or lobby. Area arming can be conditional on other areas (master and associate).

**Two Man Rule**

Two Man Rule requires two unique passcodes on the same command center to disarm an area. Without the second passcode, the system denies entry. Two Man Rule requires the presence of two people at opening, providing added security.

**Early Ambush**

Early Ambush requires two passcode entries on the same command center. Enter the same passcode twice or have two unique passcodes, depending on the configuration. The first entry disarms the area and the second entry stops a timer programmed to send a duress event. If the second entry does not occur within the programmed time, the system generates a duress event. Early Ambush allows users to inspect the premises and use the system to confirm that the area is safe to enter, providing added security.

**Easy Exit Control**

The D9412GV2 Control Panel changes from one armed state to another armed state without disarming. For example, if you change the state from Master Arm to Perimeter Arm, the control panel complies and reports the change. Easy Exit Control reduces the number of keystrokes, simplifying system operation.

**Programmable Passcode-controlled Menu List**

The system prompts users to enter a passcode prior to viewing the command center menu. The command center display shows the user the menu options allowed according to the user's authority level. Passcode-controlled menus provide users only with the options and information pertinent to them, simplifying system operation.

**Passcode Follows Scope**

Use Passcode Follows Scope to restrict passcode arming and disarming only to the command center's immediate local area, even if the command center can report events from other areas. Passcode follows scope simplifies the arming and disarming procedure without limiting any other command center capabilities.

**Invisible Walk Test**

A menu item allows the user to test invisible 24-hour points within the scope of the command center without sending a report to the central station.

**Door Activated Custom Function**

A custom function activates when user credentials are presented to a D9210B door controllers reader. The custom function behaves as though the user performed a function at the command center associated with the door controller.

**Passcodes**

User passcodes contain three to six digits. Assign each user one of fourteen customized authority levels in each area. Restrict passcodes to operate only during certain times.

The Two Man Rule and Early Ambush options require two passcodes, providing additional security in financial establishments such as banks.

**Communications**

The D9412GV2 Control Panel prioritizes and sends reports to four route groups. Each group has a programmable primary and backup destination.

The D9412GV2 works with the D6600 NetCom Communications System using a DX4020 Network Interface Module. It has programmable anti-replay anti-substitution features 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
- Sends user names to the central station

**Security and Fire Detection**

The D9412GV2 Control Panel provides eight on-board points, and up to 238 additional off-board points (depending on model and expansion interfaces). You can program individual points to monitor all types of burglar alarms, fire alarms, and supervision devices.

### Event Log

The event log stores up to 1,000 local and transmitted events. The event log includes time, date, event, area, point, and user number. View the event log from select command centers or remotely retrieve event information using RPS. 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 an optional report to a receiver.

### Access Control

The D9412GV2 provides custom door strike, point shunt and auto disarming response by area. There are 14 panel-wide access levels with both manual and scheduled control.

Store, view, or print access events such as:

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

### Scheduled Events (Skeds)

The internal clock and calendar start individually scheduled events (skeds). Skeds perform functions such as arm or disarm, relay control, or point bypassing. The D9412GV2 Control Panel offers:

- 40 scheduled events with up to 25 different functions
- Eight opening windows and eight closing windows
- Eight user windows
- Day-of-week, date-of-month, 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. The command center 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 command center shows the number of untested points.

### Programming, Diagnostics and Controls

Users can program on-site with a D5200 Programmer, or program remotely through RPS. A programmable system passcode prevents unauthorized remote programming. D9412GV2 Control Panels accommodate up to four separate telephone numbers for primary, alternate, and backup receivers for automatic test reports.

When resetting alarms or arming or disarming a system, the user is identified by name and number.

### Parts Included

D9412GV2 Components	Quantity
D9412GV2 Board	1
Mounting Skirt	1
Faceplate with D9412GV2 Label	1

### Certifications and Approvals

**Note:** The D9414GV2 Control Panel is designed to comply with the following certifications, standards, and approvals.

UL Standards	UL365, Police Station Burglar Alarm Units and Systems UL464, Audible Signal Appliances UL609, Local Burglar Alarm Units and Systems UL864, Control Units for Fire-protective Signaling Systems UL985, Household Fire Warning System Units UL1023, Household Burglar-alarm System Units UL1076, Proprietary Burglar Alarm Units and Systems UL1610, Central-station Burglar-alarm Units UL1635, Digital Alarm Communicator System Units
Approvals	FCC: AJ9MLU-46532-AL-E

### Installation/Configuration Notes

#### Compatible Products

<b>Command Centers</b>	D1260 Series Command Centers (D1260, D1260W, D1260R, D1260BLK, D1260B)
	D720 Series Command Centers (D720, D720W, D720R, D720B)
	D1255 Series Command Centers (D1255, D1255W, D1255R, D1255B)
	D1256 Fire Command Center
	D1257 Remote Fire Alarm Annunciator
	D279A Independent Zone Control
<b>Communications Formats</b>	Modem IIIa <sup>2</sup> BFSK
<b>Programming</b>	D5200 Series Programmers Remote Programming Software (RPS)
<b>Modules</b>	C900TTL-E 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
	D5060 MUX Programmer
	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

<b>Modules (Continued)</b>	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
<b>Peripheral Hardware</b>	rvm4c Remote Video Module
<b>Detectors</b>	D278S Four-wire Addressable Detector Base
	D285/TH Photoelectric Smoke Detector Heads
	D298S Addressable Detector Base
	D462 Addressable Manual Station
	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>Magnetic Contacts</b>	Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount.

<b>Wireless Products</b>	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

<b>Readers</b>	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
	WP612 Series Waterproof Pass-through Readers
	WP644 Series Waterproof Pass-through Readers
<b>SAFECOM Radio Communicators</b>	SC2104 Series Slave Communicators
	SC3100 Series Data Transfer Radio Communicators
	SC4000 Series Full Data Transfer Radio Communicator

### Technical Specifications

#### Enclosures

- D8103 Universal
- D8108A Attack-Resistant
- D8109 Fire

#### 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>• One telephone line</li> <li>• D928 Dual Phone Line Module required for two telephone lines</li> </ul>

#### Environmental Considerations

Relative Humidity:	5% to 85% at +30°C (+86°F), non-condensing
Temperature (Operating):	0°C to +50°C (+32°F to +120°F)

#### Number of...

Areas:	8
Card Readers (Doors):	8
Credentials (Tokens):	996
Custom Functions:	16
Programmable Relay Outputs:	131
Events:	Up to 1,000
Passcode Users:	249, plus 1 service passcode
Parallel Printers:	3
Points:	246 (8 on-board, up to 238 off-board)
RF Points:	238
SKEDs:	64

#### Power Requirements

Current Draw (Minimum):	225 mA
Current Draw (Maximum):	300 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)
Standby Power:	<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>

**Ordering Information**

D9412GV2 Control Panel	D9412GV2
D9412GV2 Attack-Resistant Kit	D9412GV2-A
D9412GV2 Fire and Burglar Kit	D9412GV2-B
D9412GV2 Commercial Burglar Kit	D9412GV2-C

**Hardware Accessories**

D101 Lock and Key Set	D101
D110 Tamper Switch	D110
D122 Dual Battery Harness	D122
D122L Dual Battery Harness with Long Leads	D122L
D126 Standby Battery (12 V, 7 Ah)	D126
D137 Mounting Bracket	D137
D138 Mounting Bracket, Right Angle	D138
D928 Dual Phone Line Switcher	D928
D1218 Battery (12 V, 18 Ah)	D1218
D1224 Battery (12 V, 24 Ah)	D1224
D1238 Battery (12 V, 38 Ah)	D1238
D1240 Battery (12 V, 4 Ah)	D1240
D1640 Transformer	D1640
D8103 Enclosure	D8103
D8108A Attack Resistant Enclosure	D8108A
D8109 Fire Enclosure	D8109
D9002-5 Mounting Skirt	D9002-5
D136 Plug-In Relay	D136

**Software Options**

RPS D5500C-LPT Kit	D5500C-LPT
RPS D5500C-USB Kit	D5500C-USB

**D9412GV2 Control Panel Kit Overview**

	Kits	D9412GV2-A	D9412GV2-B	D9412GV2-C
<b>Components</b>				
D9412GV2 Board		1	1	1
D101F Lock and Key Set				1
D122 Dual Battery Harness			1	
D161 2.1 m (7 ft) Dual Modular Phone Cords			2	
D928 Dual Phone Line Switcher			1	
D1640 Transformer		1	1	1
D8103 Enclosure				1
D8108A Attack-Resistant Enclosure		1		
D8109 Fire Enclosure			1	

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