



D9412GV2 Control Panel



- ▶ **Fully integrated intrusion, fire, and access control allows users to interface with one system instead of three**
- ▶ **Conetix 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 keypads**
- ▶ **New user interface functions provide additional security and flexibility**
- ▶ **Up to 238 RF points**

The D9412GV2 Control Panel provides an integrated solution for intrusion, access control, and fire system applications. The control panel includes a communicator that sends events to selected public switched telephone network (PSTN) or IP network destinations through four programmable route groups. The 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
- Is programmable for fire, fire supervisory, or intrusion applications.

With the D9412GV2 you can:

- Monitor alarm points for intruder or fire alarms while operating user keypads and other outputs
- 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.

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

- Supervision of up to eight keypads (up to 32 unsupervised keypads can be used)
- Custom keypad text
- Full function command menu including custom functions
- Authority by area and 16-character name for each user
- 14 custom authority levels control user's authority to change, add, or delete passcodes or access control credentials; to disarm or bypass points; and to start system tests

Note Use at least one keypad in each system.

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

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 or associate).

Two Man Rule

Two Man Rule provides added security by requiring:

- Two people present at opening
- Two unique passcodes on the same keypad to disarm an area

Without the second passcode, the system denies entry.

Early Ambush

Early Ambush requires two passcode entries on the same keypad. 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 keypad menu. The keypad 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 to the keypad's immediate local area, even if the keypad can report events from other areas. Passcode Follows Scope simplifies the arming and disarming procedure without limiting any other keypad capabilities.

Invisible Walk Test

A menu item allows the user to test invisible 24-hour points within the scope of the keypad 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 controller's reader. The custom function behaves as though the user performed a function at the keypad associated with the door controller.

Passcodes

User passcodes contain three to six digits. Assign each user one of 14 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 in BFSK or Modem IIIa² communications formats to four route groups. Each group has a programmable primary and backup destination.

The D9412GV2 works with the Conettix D6600 Communications Receiver/Gateway using a Conettix DX4020 Network Interface Module. When using a DX4020, the D9412GV2 has programmable anti-replay anti-substitution features.

The Modem IIIa² Communications Format, available with Bosch receivers, adds central station reporting capabilities such as:

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

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 a keypad or use RPS to remotely retrieve event information. 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 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 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.

Certifications and Approvals

Region	Certification		
USA	UL	AMCX: Central Station Alarm Units (UL1610, UL1635), AMCX7: Central Station Alarm Units Certified for Canada (cULus), AMTB: Control Panels, SIA False Alarm Reduction, AOTX: Local Alarm Units (UL464, UL609), AOTX7: Local Alarm Units Certified for Canada (cULus), APAW: Police Station Alarm Units (UL365, UL464), APAW7: Police Station Alarm Units Certified for Canada (cULus), APOU: Proprietary Alarm Units (UL1076), APOU7: Proprietary Alarm Units Certified for Canada (cULus), NBSX: Household Burglar Alarm System Units (UL1023), NBSX7: Household Burglar Alarm System Units Certified for Canada (cULus), UOJZ: Control Units, System (UL864, 9th edition), UTOU: Control Units and Accessories - Household System Type (UL985), UTOU7: Control Units and Accessories - Household System Type Certified for Canada (cULus)	
		Notice of Authorization to Apply the UL Mark	
		FM	
		CSFM	7165-1615: 119 and 7170-1615: 145
		FCC	AJ9-MUL-46532-AL-E
		NYC-MEA	12-92-E, Vol, 15
		Canada	IC

Installation/Configuration Notes

Compatible Products

Keypads	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
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Detectors	D278S Four-wire Addressable Detector Base, 12 VDC	DS7457i Series Single-zone Multiplex Input Modules		
	D285/TH Photoelectric Smoke Detector Heads		DS7460i Two-input Module	
	D298S Addressable Detector Base, 24 VDC		DS7461i Single-input Multiplex Module	
	D7050 Series Addressable Photoelectric Smoke and Smoke Heat Detector Heads		DS7465i Input and Output Module	
	F220-B6PM/S Addressable Detector Bases with POPITs		DX4010i RS-232 Serial Interface Module	
	MX250 Series Smoke Detectors		Conetrix DX4020 Network Interface Module	
	MX775i Addressable PIR Detector		ICP-SDI-9114 SDI Splitter	
	MX794i Long Range Multiplex PIR Detector		Peripheral Hardware	
	MX934i Addressable PIR Detector			rvm4c Remote Video Module
	MX938i Addressable PIR Detector		Programming	
	ZX776Z PIR Detector		D5200 Series Programmers	
	ZX794Z Long Range PIR Detector		RPS or RPS-LITE Remote Programming Software	
	ZX835 TriTech Microwave/PIR Detector		Readers	
	ZX935Z PIR Detector			ARD-R10 iCLASS Mullion Reader
	ZX938Z PIR Detector			ARD-R40 iCLASS Switchplate Reader
	ZX970 PIR/Microwave Detector			ARD-RK40-09 iCLASS PIN Reader
	Bosch conventional detectors, including Blue Line, seismic, PIR, TriTech PIR Microwave, photoelectric, heat, and smoke.			ARD-VSMART iCLASS Reader
Enclosures	D8103 Universal Enclosure	D8201/W Series Low-profile Readers		
	D8108A Attack-resistant Enclosure	D8203/W Series Mullion Proximity Readers		
	D8109 Fire Enclosure	D8223 Prox Pro Reader		
	D9101 Fire Enclosure (large)	D8224 Mullion Reader		
	Magnetic Contacts	Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount.		D8224-SP Switch Plate Reader
Modules		D8225 Mini Mullion Reader		
	C900V2 Dialer Capture Module	D8227 Insert Card Reader		
	D113 Battery Lead Supervision Module	D8301/W Series Low-profile Proximity Readers		
	D125B Dual Class B Initiating Module	D8302 Vandal-resistant Reader		
	D127 Reversing Relay Module	D8303/W Series Mullion Proximity Readers		
	D129 Class A Initiating Module	D8304/W Series Extended Range Proximity Readers		
	D130 Auxiliary Relay Module	WP644 Series Waterproof Pass-through Readers		
	D185 Reverse Polarity Signaling Module	SAFECOM Radio Communicators		
	D192C Notification Appliance Circuit Module		SC2104 Series Slave Communicators	
	D192G Notification Appliance Circuit Module	SC3100 Series Data Transfer Radio Communicators		
	D928 Phone Line Switcher	SC4000 Series Full Data Transfer Radio Communicator		
	D5060 MUX Programmer	Wireless Products		
	D8125 POPEX Point Expander		D8125INV Wireless Interface	
	D8128D OctoPOPIT Eight-point Expander		FA113 Keychain Remote Control	
	D8125MUX Point Expander		FA116 Executive Programmer	
	D8129 Octo-relay Module		FA202 Wireless Smoke Detector and Transmitter	
	D8130 Door Release Module		FA203S Necklace Pendant Transmitter (single-button)	
D9127 Series POPIT Modules	FA203D Necklace Pendant Transmitter (double-button)			
D9131A Parallel Printer Interface Module	FA204 Necklace Pendant Transmitter			
D9210BLC Access Control Interface Module	FA205S Belt Clip/Loop Transmitter (single-button)			
DS7432 Eight-input Remote Module	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 with Internal Reed Switch (off-white)
 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

Environmental Considerations

Relative Humidity: 5% to 93% 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
 Events: Up to 1000
 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: 64

Power Requirements

Current Draw (Maximum): 300 mA
 Output (Alarm): 2 A at 12 VDC
 Output (Auxiliary, Continuous Power, and Switched Auxiliary combined): 1.4 A at 12 VDC nominal
 Voltage (Operating): 12 VDC nominal
 Voltage (AC): 16.5 VAC 40 VA plug-in transformer (D1640)

Parts Included

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

- One telephone line
- D928 Dual Phone Line Module required for two telephone lines

D9412GV2 Kit Ordering Information

Components	Kits				
	D9412GV2-A	D9412GV2-CA-A	D9412GV2-B	D9412GV2-C	D9412GV2-CA-C
D9412GV2 Board	1		1	1	
D9412GV2 Board for Canada		1			1
D101F Lock and Key Set				1	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	
D1640-CA Transformer for Canada		1			1
D8103 Enclosure				1	1
D8108A Attack-Resistant Enclosure	1	1			
D8109 Fire Enclosure			1		

Ordering Information

D9412GV2 Control Panel Includes one printed circuit board (PCB).	D9412GV2
D9412GV2 Control Panel for Canada For use in Canada. Includes one printed circuit board (PCB) and assorted installation hardware.	D9412GV2-CA
D9412GV2 Attack-Resistant Kit Contains one PCB, one transformer, and one attack-resistant enclosure.	D9412GV2-A
D9412GV2 Attack-Resistant Kit for Canada For use in Canada. Contains one PCB, one transformer, and one attack-resistant enclosure.	D9412GV2-CA-A
D9412GV2 Fire and Burglar Kit Contains one PCB, one dual battery harness, two telephone cords, one telephone line switcher, one transformer, and one fire enclosure.	D9412GV2-B
D9412GV2 Commercial Burglar Kit Contains one PCB, one lock and key set, one transformer, and one universal enclosure.	D9412GV2-C
D9412GV2 Commercial Burglar Kit for Canada For use in Canada. Contains one PCB, one lock and key set, one transformer, and one universal enclosure.	D9412GV2-CA-C
Accessories	
ICP-SDI-9114 SDI Splitter Provides the ability to set up two independent SDI buses from a single SDI connection on the control panel.	ICP-SDI-9114
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.	D928
D110 Tamper Switch Screw-on tamper switch that fits all enclosures. Shipped in packages of two.	D110
ICP-EZTS Dual Tamper Switch Combination tamper switch with a wire loop for additional tamper outputs.	ICP-EZTS
D101 Lock and Key Set	D101
D122 Dual Battery Harness Harness with circuit breaker. Connects two batteries to a compatible control panel.	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.	D122L
D126 Standby Battery (12 V, 7 Ah) Sealed lead-acid standby and auxiliary rechargeable power supply.	D126

Ordering Information

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.	D1218
D1224 Battery (12 V, 24 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.	D1224
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.	D1238
D137 Mounting Bracket Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.	D137
D138 Mounting Bracket, Right Angle Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.	D138
D1640 Transformer	D1640
D1640 Transformer for Canada For use in Canada. System transformer rated at 16.5 VAC, 40 VA.	D1640-CA
D8004 Transformer Enclosure For applications such as fire alarm that might require a transformer enclosure.	D8004
D8103 Enclosure	D8103
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.	D8108A
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.	D8109
D9101 Fire Enclosure Large red enclosure for fire applications. It is constructed of 16 gauge (1.5 mm) cold rolled steel and measures (HxWxD) 37.4 in x 23.5 in. x 2.4 in. (94.8 cm x 59.6 cm x 10.5 cm).	D9101
D9002-5 Mounting Skirt	D9002-5
Software Options	
RPS Kit (LPT) Account management and control panel-programming software with LPT connection.	D5500C-LPT
RPS Kit (USB) Account management and control panel-programming software with USB connection.	D5500C-USB

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