



## D7212GV2 Control Panel



The D7212GV2 Control Panel provides an integrated solution for intrusion (commercial and residential) and residential fire alarm system applications. Monitor alarm points for intruder or fire alarms while operating user command centers and other outputs. The D7212GV2 Control Panel includes a communicator that sends event reports 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). The D7212GV2 Control Panel provides up to 40 individually identified points. Each point accommodates normally-open and normally-closed devices with end-of-line (EOL) resistor supervision. Each point is programmable for fire, fire supervisory, or intrusion applications.

**Note** The D7212GV2 Control Panel is available exclusively to Bosch Certified Security Dealers (BCSD).

### Functions

#### Programmable Outputs

- 2 A alarm power at 12 VDC
- 1.4 A auxiliary power at 12 VDC

- ▶ Fully integrated intrusion and fire functions allow users to interface with one system instead of two
- ▶ NetCom IP based communication option provides high-speed, secure alarm transport and control
- ▶ Four programmable areas with perimeter and interior partitioning
- ▶ 40 points with flexible configuration options to meet application specific requirements
- ▶ Your choice of vacuum fluorescent or ATM style user interface command centers
- ▶ New user interface functions provide additional security and flexibility
- ▶ Up to 32 RF points

- Four alarm output patterns
- Automatic bell test
- Programmable bell shut-off timer
- Three on-board outputs, 24 off-board programmable outputs

#### System Response

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

#### 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).

## User Interface

- Supervises up to eight command centers (up to 32 non-supervised command centers can be used)
- Custom command center text
- Four custom functions
- 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, delete access control tokens, delete cards, disarm, bypass points, and initiate system tests
- Up to 40 programmable, scheduled events and up to 16 event functions for controlling relays, enabling passcodes and windows, and automatically arming and disarming areas
- Adjustable brightness or volume for command center display or sounder
- One parallel printer

The D7212GV2 provides on-premises point and system status annunciation. The fully selectable user interface customizes command center displays and allows users to create appropriate menu items and functions.

Function lists can help a user become familiar with the operation of the control panel and custom functions allow users to perform complex functions with a few keystrokes. Each function can be programmed and identified by sixteen characters of custom text and can contain up to 32 keystrokes.

**Note** At least one command center per system is recommended.

## 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 D7212GV2 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 command capabilities.

## 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 D7212GV2 prioritizes and sends reports to four route groups. Each group has a programmable primary and backup destination.

The D7212GV2 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

## Security and Fire Detection

The D7212GV2 Control Panel provides eight on-board points, and up to 32 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.

### 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 D7212GV2 Control Panel offers:

- 40 scheduled events with up to 16 different functions available
- 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. D7212GV2 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

The D7212GV2 Control Panel is designed to comply with the following certifications, standards, and approvals.

UL Standards	UL365, Police Station Burglar Alarm Units and Systems UL609, Local Burglar Alarm Units and 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 CSFM: 7167-1615:100 Control Unit Household

## 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) D1256 and D1256RB Fire Keypads D1257 and D1257RB Remote Fire Alarm Annunciator D279A Independent Zone Control
<b>Detectors</b>	D278S Four-wire Addressable Detector Base D285/TH Photoelectric Smoke Detector Heads D298S Addressable Detector Base 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
<b>Magnetic Contacts</b>	Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount.
<b>Modules</b>	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  
 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  
 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

**Peripheral Hardware**

rvm4c Remote Video Module

**Communications Formats**

Modem IIIa<sup>2</sup>

BFSK

**Programming**

D5200 Series Programmers

Remote Programming Software (RPS)

**SAFECOM Radio Communicators**

SC2104 Series Slave Communicators

SC3100 Series Data Transfer Radio Communicators

SC4000 Series Full Data Transfer Radio Communicator

**Wireless Products**

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 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

**Parts Included**

D7212G Components	Quantity
D7212GV2 Board	1
Mounting Skirt	1
Faceplate with D7212GV2 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:	RJ31X or RJ38X

### 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:	4
Custom Functions:	4
Programmable Relay Outputs:	27
Events:	Store up to 1,000
Parallel Printers:	1

Passcode Users:	99, plus 1 service passcode
Points:	40 (eight on-board, up to 32 off-board)
RF Points:	32
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>

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#### D7212GV2 Kit Ordering Information

Components	Kits			
	D7212GV2K1	D7212GV2K1W	D7212GV2K2	D7212GV2K3
D7212GV2 Board	1	1	1	1
D101 Lock and Key Set	1	1	1	1
D1255 Keypad	1			1
D1255W Keypad (White)		1		
D1260 Keypad			1	
D1640 Transformer	1	1	1	1
D8103 Enclosure	1	1	1	1
D8125 Addressable Expansion Module				1
D9127U POPIT Module without Tamper				10
DS835i PIR Detector	2	2	2	

Components	Kits			
	D7212GV2K3W	D7212GV2K4	D7212GV2K5	D7212GV2K5W
D7212GV2 Board	1	1	1	1
D101 Lock and Key Set	1	1	1	1
D1255 Keypad			1	
D1255W Keypad (White)	1			1
D1260 Keypad		1		
D1640 Transformer	1	1	1	1
D8103 Enclosure	1	1	1	1
D8125 Addressable Expansion Module	1	1		
D9127U POPIT Module without Tamper	10	10		
DX4020 Network Interface Module			1	1

Components	Kits		
	D7212GV2K6	D7212GV2K7	D7212GV2K8
D7212GV2 Board	1	1	1
D101 Lock and Key Set	1	1	1
D1255 Keypad		1	
D1260 Keypad	1		1
D1640 Transformer	1	1	1
D8103 Enclosure	1	1	1
DS835i PIR Detector		1	1
D8128D OctoPOPIT Eight-Point Expander		1	1
DX4020 Network Interface Module	1		

#### Ordering Information

D7212GV2 Control Panel Includes one printed circuit board (PCB).	D7212GV2
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#### Ordering Information

D7212GV2 Kit with Keypad Contains one PCB, one lock and key set, one transformer, one universal enclosure, two PIR detectors, and one D1255 Keypad.	D7212GV2K1
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## Ordering Information

D7212GV2 Kit with Keypad D7212GV2K1W  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, two PIR detectors, and one D1255W Keypad.

D7212GV2 Kit with Keypad and PIR Detectors (2) D7212GV2K2  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, two PIR detectors, and one D1260 Keypad.

D7212GV2 Kit with Keypad and POPIT Modules (10) D7212GV2K3  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one expansion module, ten POPIT modules, and one D1255 Keypad.

D7212GV2 Kit with Keypad and POPIT Modules (10) D7212GV2K3W  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one expansion module, ten POPIT modules, and one D1255W Keypad.

D7212GV2 Kit with Keypad and POPIT Modules (10) D7212GV2K4  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one expansion module, ten POPIT modules, and one D1260 Keypad.

D7212GV2 Kit with Keypad and Network Interface Module D7212GV2K5  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one D1255 Keypad, and one DX4020 Network Interface Module.

D7212GV2 Kit with Keypad and Network Interface Module D7212GV2K5W  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one D1255W Keypad, and one DX4020 Network Interface Module.

D7212GV2 Kit with Keypad and Network Interface Module D7212GV2K6  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one D1260 Keypad, and one DX4020 Network Interface Module.

D7212GV2 Kit with Keypad and PIR Detector D7212GV2K7  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one D1255 Keypad, one PIR detector, and one OctoPOPIT eight-point expander.

D7212GV2 Kit with Keypad and PIR Detector D7212GV2K8  
Contains one PCB, one lock and key set, one transformer, one universal enclosure, one D1260 Keypad, one PIR detector, and one OctoPOPIT eight-point expander.

## Hardware Accessories

ICP-EZTS Dual Tamper Switch ICP-EZTS  
Combination tamper switch with a wire loop for additional tamper outputs.

D101 Lock and Key Set D101  
Standard lock set with one key supplied. Uses the D102 (1358) replacement key.

## Ordering Information

D122 Dual Battery Harness D122  
Harness with circuit breaker. Connects two batteries to a compatible control panel.

D122L Dual Battery Harness with Long Leads D122L  
Color-coded harness with circuit breaker and leads measuring 89 cm (35 in.). Connects 12 V batteries to compatible control panels.

D126 Standby Battery (12 V, 7 Ah) D126  
Sealed lead-acid standby and auxiliary rechargeable power supply.

D137 Mounting Bracket D137  
Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.

D138 Mounting Bracket, Right Angle D138  
Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.

D168A Remote Telephone Cord D168A  
A remote control module that arms or disarms a security system remotely or locally through a telephone.

D1218 Battery (12 V, 18 Ah) D1218  
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 Battery (12 V, 24 Ah) D1224  
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 Battery (12 V, 38 Ah) D1238  
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.

D1240 Battery (12 V, 4 Ah) D1240  
A 12 V sealed lead-acid battery for standby and auxiliary power. Suitable for supplying backup power for fire, security, and access control systems during AC power failures.

D1640 Transformer D1640  
System transformer rated at 16.5 VAC, 40 VA.

D8103 Enclosure D8103  
Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

D8108A Attack Resistant Enclosure D8108A  
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.

D9002-5 Mounting Skirt D9002-5  
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.

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).

## Ordering Information

### Software Options

RPS D5500C-LPT Kit Account management and control panel-programming software with LPT connection.	D5500C-LPT
RPS D5500C-USB Kit Account management and control panel-programming software with USB connection.	D5500C-USB

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