

# D7212GV4 Control Panel

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**BOSCH**  
Invented for life



- ▶ Fully integrated intrusion and fire, allows users to interface with one system instead of two
- ▶ Conettix IP-based communication options provide high-speed, secure alarm transport and control through connection of wired and/or cellular network interfaces
- ▶ Up to 4 programmable areas, each supporting both perimeter and interior points
- ▶ 40 points with flexible configuration options to meet multiple installation requirements
- ▶ Your choice of touch screen, vacuum florescent, ATM style or LED keypads

GV4 panels are the premier commercial control panel line from Bosch. GV4 panels integrate intrusion and fire, providing one simple user interface for all systems. With the ability to adapt to large and small applications, the D7212GV4 provides up to 40 individually identified points that can be split into 4 areas. The control panel includes a communicator that sends events to selected public switched telephone network (PSTN), IP network, or cellular network destinations through four programmable route groups. With the D7212GV4 you can:

- Monitor alarm points for intruder or fire alarms while operating keypads and other outputs
- Program all system functions local or remote using Remote Programming Software (RPS) or by using basic programming through the keypad user interface.

## 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

### System Response

- High-performance micro-controller provides industry-leading system response
- High-speed device bus (NEW)
- 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, and control authority levels

### User Interface

- Supervision of up to 8 keypads (up to 32 unsupervised keypads can be used)
- Remote Programming Software (RPS) Lite allows end users to perform control panel management tasks – Add/Delete/Change users and authorities, view, and print the panel history event log
- Custom keypad text is fully programmable, including remote programming
- 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; to disarm or bypass points; and to start system tests

### 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). Any area can be configured for perimeter and interior arming, not requiring a separate area for this function.

### Custom Functions

For added convenience, Custom Functions can be programmed to eliminate keystrokes for users allowing the installer to program an easy command for a complicate function. For example, a custom function can be written to bypass a group of points and arm the system, allowing the user to perform this function with one easy command. These Custom Functions can be activated from a keypad, or automatically as a scheduled event (SKED), providing further flexibility and ease of use.

### Passcode Security

For high security applications, GV4 can be configured for several different passcode options.

- Two-Man Rule - Requires two people with two unique passcodes to be present at the time of opening.
- Early Ambush - Allows users to verify that the facility is safe by requiring two passcode entries at the same keypad, sending a duress event if the user does not enter the passcode a second time after inspecting the premises.

### Easy Exit Control

The D7212GV4 Control Panel changes from one armed state to another armed state without disarming. For example, if you change the state from Perimeter Arm to Master 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.

### Flexible Control

The system provides the flexibility to select added convenience or high security. For example, you can restrict passcode arming and disarming to a keypad's immediate local area, even if the user has access to other areas. This is particularly useful for high security areas, where a user may have access to the area, but

would prefer to only disarm the area individually rather than with the rest of the system. Another option is to program the system to disarm all areas the user can access from any keypad.

### 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.

### System Users

The system supports up to 99 users, each can have a passcode, and a wireless keyfob (NEW). User passcodes contain three to six digits. Passcodes can be assigned to one of 14 customized authority levels in each area and can be restricted to operate only during certain times.

### Communication Formats

The D7212GV4 Control Panel prioritizes and sends reports in Contact ID or Modem IIIa<sup>2</sup> communications formats to four route groups. Each group has a programmable primary and backup destination. The D7212GV4 provides flexible communications for most central stations with reporting capabilities such as:

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

### IP Communication

The D7212GV4 uses the B420 Ethernet Communication Module (NEW), DX4020 Ethernet Communicator, and/or the ITS-DX4020-G Cellular Communicator to communicate with the Conettix D6600 and D6100i Communications Receiver/Gateways. Using Conettix IP communication offers a secure path that includes anti-replay/anti-substitution features and provides enhanced security with encryption. The B420, DX4020 and ITS-DX4020-G can all be used for remote programming.

GV4 is the first Security Control panel to support DNS (Domain Name System) for both remote programming and central station communication. DNS provides ease of use, eliminating the need to use static IP addresses as your reporting destination, and accommodates a simple solution for central station disaster recovery. IP Setup is available via the installer keypad menus and the remote programming software, eliminating the need to use complicated internet programming tools such as ARP and Telnet (NEW).

### Communication Paths

D7212GV4 Control Panels accommodate up to four separate destinations 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.

**Firmware Updates (NEW)**

Remote firmware updates using the RPS Firmware Update wizard through the IP connection (B420 Ethernet Communication Module) as well as an on-site flash update key, provides for easy feature enhancements without replacing ROM chips.

**A wide variety of input options**

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 application.
- Can be hard-wired, addressable, or wireless.

**Security and Fire Detection**

The D7212GV4 Control Panel provides eight on-board points, and up to 32 additional off-board points. You can program individual points to monitor all types of burglar alarms, fire alarms, and supervision devices.

**Wireless Interface (New)**

The B820 SDI2 Inovonics Interface Module connects an Inovonics EN4200 Serial Receiver to the control panel SDI2 bus, allowing this UL Listed (NEW) wireless system to be programmed locally via the panel keypad, as well as remotely through RPS.

**Event Log**

The event log stores up to 1,000 local and transmitted events. The event log includes time, date, event, area, point, user number, and transmission status (NEW). View the event log from a keypad or use RPS to remotely retrieve event information. RPS operators can retrieve events periodically using one 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 D7212GV4 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**

Installers can program locally or remotely through RPS as well as basic keypad programming. A programmable system passcode prevents unauthorized remote programming.

**Two Data Buses (NEW)**

GV4 provides 2 data buses which support a wide array of components. The SDI bus supports keypads access and communications modules and also allows connection of existing components in a retrofit application. The SDI2 bus (NEW) supports new input and output devices, as well as a new wireless interface module, and an Ethernet communicator. SDI2 allows these devices to be mounted up to 1000 ft (305 m) from the control panel, providing installation convenience and flexibility.

**Certifications and approvals**

USA:

UL 365	Police Station Connected Burglar Alarm Units and Systems
UL 609	Local Burglar Alarm Units and Systems
UL 636	Holdup Alarm Units and Systems
UL 985	Household Fire Warning System Units
UL 1023	Household Burglar Alarm System Units
UL 1076	Proprietary Burglar Alarm Units and Systems
UL 1610	Central Station Burglar Alarm Units
ANSI/SIA CP-01:2010	False Alarm Reduction
CSFM	California Office of The State Fire Marshall

FCC Part 15 Class B

Region	Certification	
USA	UL	AMCX.S1871 Central-station Alarm Units
	UL	AMTB.S1871 Control Panels, SIA False Alarm Reduction
	UL	ANET.S1871 Holdup Alarm Units
	UL	AOTX.S1871 Local Alarm Units
	UL	APAW.S1871 Police-station-connected Alarm Units
	UL	APOU.S1871 Proprietary Alarm Units
	UL	NBSX.S1871 Household Burglar Alarm System Units
	UL	UTOU.S1871 Control Units and Accessories, Household System Type
	CSFM	see our website
	Canada	ULC
ULC		APOU7.S1871 Proprietary Alarm Units Certified for Canada
ULC		APAW7.S1871 Police-station-connected Alarm Units Certified for Canada

Region	Certification	
	ULC	NBSX7.S1871 Household Burglar Alarm System Units Certified for Canada
	ULC	AOTX7.S1871 Local Alarm Units Certified for Canada
Brazil	ANATEL	1083-12-1855

## Installation/configuration notes

### Compatible Products

#### Keypads

D1265 Touch Screen Keypad

D1255 Series Keypads  
(D1255, D1255W, D1255B, D1255RB, D1265)

D1260 Series Keypads  
(D1260, D1260W, D1260R, D1260BLK, D1260B)

D1256RB Fire Keypad

D1257RB Remote Fire Alarm Annunciator

D720 Series Keypads  
(D720, D720W, D720R, D720B)

D279A Independent Zone Control

#### Detectors

D278S Four-wire Addressable Detector Base, 12 VDC

D285/TH Photoelectric Smoke Detector Heads

D298S Addressable Detector Base, 24 VDC

D7050 Series Addressable Photoelectric Smoke and Smoke Heat Detector Heads

F220-B6PM/S 12/24 VDC Addressable Detector Bases with POPITs

FCC 380 Carbon Monoxide Detector

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, including Professional Series, Blue Line Gen2, Blue Line, Classic Line, Commercial Line, and Ceiling Mount motion detectors, as well as glass break, seismic, request-to-exit, photoelectric, heat, and smoke detectors.

### Enclosures

D8103 Universal Enclosure

D8108A Attack-resistant Enclosure

D8109 Fire Enclosure

### Magnetic Contacts

Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount.

### Modules

Conettix B420 Ethernet Communication Module (NEW)

Conettix ITS-DX4020-G Cellular Integrated Communicator

Conettix DX4020 Network Interface Module

Conettix DX4010V2 USB/Serial Interface Module

Conettix C900V2 Dialer Capture Module

D113 Battery Lead Supervision 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

D192G Notification Appliance Circuit Module

D5060 MUX Programmer

B208 Octo-input Module (NEW)

B308 Octo-output Module (NEW)

B820 SDI2 Inovonics Interface Module (NEW)

D8125 POPEX Point Expander

D8128D OctoPOPIT Eight-point Expander

D8125MUX Point Expander

D8125INV Wireless Interface Module

D8129 Octo-relay Module

D8130 Door Release 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

ICP-SDI-9114 SDI Splitter

**Programming**

RPS or RPS-LITE Remote Programming Software

**Wireless**

B820 SDI2 Inovonics Interface Module

SDI2 Inovonics Interface and Receiver Kit. Includes B820 and EN4200 (ENKIT-SDI2)

EN1210 Universal Transmitter (Single-input)

EN1210EOL Universal Transmitter with EOL Resistor

EN1210W Door-Window Transmitter with Reed Switch

EN1215EOL Universal Transmitter with Wall Tamper, Reed Switch, and EOL Resistor

EN1223D Water-resistant Pendant Transmitter (Double-button)

EN1223S Water-resistant Pendant Transmitter (Single-button)

EN1224-ON Multiple-Condition Pendant Transmitter

EN1233D Necklace Pendant Transmitter (Double-button)

EN1233S Necklace Pendant Transmitter (Single-button)

EN1235D Beltclip Pendant Transmitter (Double-button)

EN1235DF Fixed-location Transmitter (Double-button)

EN1235S Beltclip Pendant Transmitter (Single-button)

EN1235SF Fixed-location Transmitter (Single-button)

EN1247 Glass-break Detector Transmitter

EN1249 Bill Trap Transmitter

EN1242 Smoke Detector Transmitter

EN1260 Wall Mount Motion Detector

EN1261HT High Traffic Motion Detector

EN1262 Motion Detector with Pet Immunity

EM1265 360° Ceiling Mount Motion Detector

EN4200 Serial Receiver

EN5040-T High Power Repeater with Transformer

- 1 Literature pack
- Installation Instructions
  - Owners Manual
  - Release Notes

- 1 Literature CD containing all product literature

The available kits come with the parts indicated in the following table:

	<b>Kits</b>	
<b>Components</b>	-K1	-K1W
D7212GV4 Board	1	1
D101F Lock and Key Set	1	1
D1255 Keypad	1	
D1255W Keypad		1
D1260 Keypad		
D1640 Transformer	1	1
D8103 Enclosure	1	1
ISC-BDL2-WP12G TriTech Detector	2	2
	<b>Kits</b>	
	-K6	-K7
D7212GV4 Board	1	1
D101F Lock and Key Set	1	1
D1255 Keypad		1
D1255W Keypad		
D1260 Keypad	1	
D1640 Transformer	1	1
D8103 Enclosure	1	1
ISC-BDL2-WP12G TriTech Detector		1
B208 Octo-input Module <b>(NEW)</b>		1
Conettix B420 Ethernet Communication Module <b>(NEW)</b>	1	

**Parts included**

The D7212GV4 includes the following parts:

<b>Quant.</b>	<b>Component</b>
1	D7212GV4 Board
1	Mounting Skirt
1	Faceplate with D7212GV4 Label

**Technical specifications****Communications**

Telephone Connection:	<ul style="list-style-type: none"> <li>• One telephone line</li> </ul>
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**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:	4
Custom Functions:	4
Events:	Up to 1000
Passcode Users:	99, plus 1 service passcode
Parallel Printers:	1
Points:	40 (8 on-board, up to 32 off-board)
Programmable Relay Outputs:	27
RF Points:	32
SKEDs:	40

**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)

**Trademarks**

Inovonics is a trademark of Inovonics Wireless Corporation.

**Ordering information****D7212GV4 40-point Control Communicator**

Order number **D7212GV4**

**D7212GV4-K1 Burglar Kit with D1255**

Contains one PCB, one lock and key set, one transformer, one universal enclosure, two TriTech motion detectors, and one D1255 Keypad.

Order number **D7212GV4-K1**

**D7212GV4-K1W Burglar Kit with D1255W**

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

Order number **D7212GV4-K1W**

**D7212GV4-K6 Burglar Kit with D1260**

Contains one PCB, one lock and key set, one transformer, one universal enclosure, one D1260 Keypad, and one Conettix B420 Ethernet Communication Module (**NEW**).

Order number **D7212GV4-K6**

**D7212GV4-K7 Burglar Kit with B208**

Contains one PCB, one lock and key set, one transformer, one universal enclosure, one D1255 Keypad, one TriTech motion detector, and one B208 Octo-input Module (**NEW**).

Order number **D7212GV4-K7**

**Accessories****SDI2 Inovonics Interface and Receiver Kit**

Kit containing B820 and EN4200 for use on SDI2 bus panels.

Order number **ENKIT-SDI2**

**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)**

A rechargeable sealed lead-acid power supply used as a secondary power supply or in auxiliary or ancillary functions.

Order number **D126**

**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**

**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**

**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**

**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**

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### **D1640 Transformer**

System transformer rated at 16.5 VAC, 40 VA.

Order number **D1640**

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### **D9002-5 Mounting Skirt**

Mounts inside B8103, 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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### **Software Options**

#### **RPS Kit (USB)**

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

Order number **D5500C-USB**

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