Intrusion Alarm Systems | D7412GV4 Control Panel

D7412GV4 Control Panel

www.boschsecurity.com

Fully integrated intrusion, fire, and access control allows users to interface with one system instead of three

Conetix IP-based communication options provide high-speed, secure alarm transport and control through connection of wired and/or wireless cellular network interfaces

Up to 8 programmable areas each supporting both with perimeter and interior points with your choice of touch screen, ATM style, or LED keypads

75 points with flexible configuration options to meet multiple installation requirements

OPTIONAL GV4 version 2.xx firmware upgrade available

GV4 panels are the premier commercial control panel line from Bosch. GV4 panels integrate intrusion, fire and access control providing one simple user interface for all systems. With the ability to adapt to large and small applications, the D7412GV4 provides up to 75 individually identified points that can be split into 8 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 D7412GV4 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.
- Add up to two doors of access control using the optional D9210C Access Control Interface Module.

Functions

**Programmable outputs**
- 2 A alarm power at 12 VDC
- 1.4 A auxiliary power at 12 VDC

**System response**
- High-performance micro-controller provides industry-leading system response
- High-speed device bus
- 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 16 keypads
- Remote Programming Software (RPS) allows end users to perform control panel management tasks – Add/Delete/Change user passcodes 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 or access control credentials; 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 system configurations. 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 complicated 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. This can be used to control a particular room, or even a single door allowing customized access. In additions, Custom Functions can be activated with a token or card, or automatically as a scheduled event (SKED) providing further flexibility and ease of use.

**Door-activated custom function**
A custom function activates when user credentials are presented to a B901 or D9210C access control module’s door controller’s reader. The custom function behaves as though the user performed a function at the keypad associated with the door controller.

**Passcode security**
For high security applications, GV4 can be configured for several different passcode options.
• Dual Authentication – requires a user to enter their passcode and also use a token or card.
• 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 different keypads within the same area, sending a duress event if the user does not enter the passcode a second time after inspecting the premises.

**Easy Exit control**
The 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 399 users, each can have a passcode, an access token and a wireless keyfob. 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 control panel prioritizes and sends reports in Contact ID or Modem III communications formats to four route groups. Each group has a programmable primary and backup destination. 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.

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**IP communication**
The control panel uses the B426/B420 Connetix Ethernet Communication Module, DX4020 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.

Communication paths
The control panel accommodates 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
Remote firmware updates using the RPS Firmware Update wizard through the IP connection (B426/B420 Connetix Ethernet Communication Module) as well as an on-site flash update key, provides for easy feature enhancements without replacing ROM chips.

*For GV4 version 2.00 firmware update information, refer to the, “GV4 version 2.00 firmware updates” datasheet to learn more about key enhancements, and supported products.

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 control panel provides eight on-board points, and up to 67 additional off-board points. You can program individual points to monitor all types of burglar alarms, fire alarms, and supervision devices.

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 D7412GV4 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)

Access control
The control panel 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

Wireless interface
The B820 SDI2 Inovonics Interface Module connects an Inovonics EN4200 Serial Receiver to the control panel SDI2 bus, allowing this UL Listed 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. 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.

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
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 new SDI2 bus supports 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.

Commercial Fire Alarm support

Bosch Video Management System integration
With Bosch Video Management System (Bosch VMS) and an intrusion system, the VMS operator has a single user interface to monitor and control the intrusion system combined with video surveillance. With Bosch VMS and a control panel, the operator can, for example:
- View videos triggered by intrusion events, including all relevant information such as areas, point, and user show in the display with the event
- View areas, points, outputs, and doors – with their statuses – on the Bosch VMS map, providing the exact location in the system.
- Turn on (arm) and turn off (disarm) areas.
- Bypass and unbypass points.
• Lock and unlock doors (Bosch VMS 6.0 and higher). Requirements to integrate Bosch VMS with a control panel:
  • A licensed Bosch VMS system using Professional Editions v5.5 or higher or Bosch VMS Enterprise Edition v5.5 or higher.
  • Expansion license to integrate the intrusion control panel. One license needed per control panel. Order number MBX-XINT-xx for the expansion license added to a Bosch VMS base license. Refer to the Bosch Video Management Software product page on the Bosch website, www.boschsecurity.com.
  • Access to Remote Programming Software (RPS).
  • Control panel firmware v2.xx

Certifications and approvals

USA:
- UL 365: Police Station Connected Burglar Alarm Units and Systems
- UL 609: Local Burglar Alarm Units and Systems
- UL 636 (NEW): Holdup Alarm Units and Systems
- UL 864: Control Units and Accessories for Fire Alarm Systems (Commercial Fire)
- 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
- FM 3010: Fire Alarm Signaling Systems
- CSFM: California Office of The State Fire Marshall 7165-1615:0242 Control Unit (Commercial)

FCC Part 15 Class B, Part 68

Region | Certification
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USA | UL 20130918-S1871, UL 864, ANSI/SIA CP-01-2010, UL 1076, UL 1610, UL 1635, UL 365, UL 609, UL 985, UL 1023, UL 636
| CSFM California State Fire Marshal (see our website)
| FDNY-CoA | 6174

Canada | ULC 20140407-S1871; ULC/ORD-C1076-M1986; CAN/ULC-S304-06, CAN/ULC-S303-M91, CAN-ORD-C1023

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
- ZK938Z PIR Detector
- ZK970 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
Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount.

**Modules**
- Conettix B426 Ethernet Communication Module (NEW)
- B208 Octo-input Module
- B308 Octo-output Module
- B520 Auxiliary Power Supply Module (NEW)
- B820 SDI2 Inovonics Interface Module
- Conettix B420 Ethernet Communication Module
- 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
- D928 Phone Line Switcher
- D5060 MUX Programmer
- 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
- D9210C 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
- ICP-SDI-9114 SDI Splitter

**Transformers**
- D1640 Transformer
- D1640-CA Transformer

**Programming**
- 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
- D8223 Prox Pro Reader
- D8224 Mullion Reader
- D8224-SP Switch Plate Reader
- D8225 Mini Mullion Reader
- D8301W Low-profile Proximity Readers

**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)
- 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

**Parts included**

The D7412GV4 includes the following parts:

<table>
<thead>
<tr>
<th>Quant.</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D7412GV4 Board</td>
</tr>
<tr>
<td>1</td>
<td>Mounting Skirt</td>
</tr>
<tr>
<td>1</td>
<td>Faceplate with D7412GV4 Label</td>
</tr>
<tr>
<td>1</td>
<td>Literature pack</td>
</tr>
<tr>
<td></td>
<td>• Installation Instructions</td>
</tr>
<tr>
<td></td>
<td>• Owners Manual</td>
</tr>
<tr>
<td></td>
<td>• Release Notes</td>
</tr>
<tr>
<td>1</td>
<td>Literature CD containing all product literature</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Kits</th>
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<tbody>
<tr>
<td>Component</td>
</tr>
<tr>
<td>D7412GV4 Board</td>
</tr>
<tr>
<td>D101 Lock and Key Set</td>
</tr>
<tr>
<td>D101F Lock and Key Set</td>
</tr>
<tr>
<td>D122 Dual Battery Harness</td>
</tr>
<tr>
<td>D161 Dual Modular Phone Cord</td>
</tr>
<tr>
<td>D928 Dual Phone Line Switcher</td>
</tr>
<tr>
<td>D1640 Transformer</td>
</tr>
<tr>
<td>D6103 Enclosure</td>
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<td>D8103 Enclosure</td>
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<tr>
<td>D8108A Attack-resistant Enclosure</td>
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<tr>
<td>D8109 Fire Enclosure</td>
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</tbody>
</table>

**Technical specifications**

**Control panel specifications**

**Communications**

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

**Environmental considerations**

<table>
<thead>
<tr>
<th>Relative Humidity:</th>
<th>5% to 93% at +30°C (+86°F), non-condensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (Operating):</td>
<td>0°C to +50°C (+32°F to +122°F)</td>
</tr>
</tbody>
</table>

**Number of...**

| Areas: | 8 |
| Card Readers (Doors): | 2 |
| Credentials (Tokens): | 399 |
| Custom Functions: | 4 |
| Events: | Up to 1000 |
| Passcode Users: | 399, plus 1 service passcode |
| Parallel Printers: | 1 |
| Points: | 75 (8 on-board, up to 67 off-board) |
| Programmable Relay Outputs: | 67 |
| RF Points: | 67 |
| 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) |

**Ordering information**

**D7412GV4 Control Panel**
The D7412GV4 is sold individually or in kits. It supports 75 points.
Order number **D7412GV4**

**D7412GV4-A Attack-resistant Package**
Contains one PCB, one transformer, and one attack-resistant enclosure.
Order number **D7412GV4-A**

**D7412GV4-B Fire/Burglar Package**
Contains one PCB, one dual battery harness, two telephone cords, one telephone line switcher, one transformer, and one fire enclosure.
Order number **D7412GV4-B**
**D7412GV4-C Standard Burglar Package**
Contains one PCB, one lock and key set, one transformer, and one universal enclosure.
Order number D7412GV4-C

**D7412GV4-D Burglar Package**
Contains one PCB, one lock and key set, one transformer, and one D6103 Enclosure.
Order number D7412GV4-D

**Accessories**

**SDI2 Inovonics Interface and Receiver Kit**
Kit containing B820 and EN4200 for use on SDI2 bus panels.
Order number ENKIT-SDI2

**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

**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

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

**D8004 Transformer Enclosure**
For applications such as fire alarm that might require a transformer enclosure.
Order number D8004

**D9002-5 Mounting Skirt**
5 pack of mounting skirts for B8103, D8103, D8108A, and D8109 enclosures. Each skirt can hold up to six standard 3-hole mounting modules.
Order number D9002-5

**D110 Tamper Switch**
Screw-on tamper switch that fits all enclosures. Shipped in packages of two.
Order number D110

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

**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 a lock and key set.
Order number D8108A

**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

**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
Software Options

RPS Kit (DVD-ROM and USB Security Block)
Account management and control panel programming software with USB security key (dongle).
Order number D5500C-USB