The D7412G Control Panel provides an integrated solution for Access Control, Security, and Fire Alarm system applications. The control panel is capable of monitoring alarm points for intruder or fire alarms while operating user command centers and other outputs. The control panel includes a communicator that reports events to selected PSTN or IP network destinations through four programmable route groups. Programming and accessory modules offer flexibility and beneficial features rarely found in other security control systems.

The D7412G Control Panel provides eight on-board points, up to 67 off-board points, 64 relays, and two access control doors. Grant access from a Wiegand style card reader connected to: a D9210B Access Control Module, a request-to-enter or request-to-exit input, or a keypad.

### Functions

#### Programmable Outputs
- 2 A alarm power at 12 VDC
- 1.4 A auxiliary power at 12 VDC
- Four alarm output patterns
- Automatic bell test
- Programmable bell shut-off timer

The D7412G Control Panel provides up to 75 individually identified points. Each point accommodates normally open (NO) and or normally closed (NC) devices with end-of-line (EOL) resistor supervision. Each point is programmable for fire, fire supervisory, or burglary applications.

### System Response
- 31 custom point indexes, including fire supervisory
- Selectable point response time
- Cross point compatibility
- 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 or keypads (up to 32 non-supervised command centers or keypads 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 tokens/cards, disarm, bypass points, and initiate system tests
• Adjustable brightness or volume for keypad display or sounder

Notice
At least one keypad per system is recommended.

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 Passcodes
User passcodes contain three to six digits. Each user is assigned one of 14 customized authority levels in each area. Passcodes can be restricted to operate only during certain times. User names can contain up to 16 characters. The user name can be viewed, printed, reported to a central station in Modem IIIa Communications format or retrieved with Remote Programming (RPS) software.

Security and Fire Detection
The D7412G Control Panel provides eight on-board points, and up to 67 additional off-board points (depending on model and expansion interfaces). Program individual points to monitor all types of burglar alarm, fire alarm, and supervision devices.

Communications
The D7412G has four route groups. It can sort reports by priority and transmit reports to four route groups each of which has a programmable primary and backup destination.

The D7412G is compatible with the D6600 NetCom Communications System using a DX4020 Network Interface Module. It has programmable anti-replay anti-substitution when using a DX4020. The Modem IIIa² Communications Format, available with Bosch receivers, adds reporting capabilities such as:
• Individual point numbers and text
• Opening or closing reports by area number, user number, and user text
• Remote programming attempts
• Diagnostic reports

Event Log Storage, Viewing and Printing
All local and transmitted events (up to 1,000 total events) are stored in a log. The event log includes time, date and event, with area, point and user number. You can view the event log from select keypads or remotely retrieve event information using RPS. With the printer interface module installed, the D7412G Control Panel allows the use of one on-site parallel printers. The Event Log and a local printer provide a record of openings and closings without extra communications costs. RPS operators can retrieve events periodically using one phone call, rather than receiving several calls each day. When the control panel’s event log reaches the storage limit, it can send a report to a receiver.

Access events that you can store, view or print include:
• Access granted
• No entry
• Request-to-enter
• Request-to-exit

Access Control
• Custom door strike, point shunt and auto disarming response by area
• Logging options for: Access Granted, No Entry, Request-to-exit, and Request-to-enter
• 14 panel-wide access levels with both manual and scheduled control

Scheduled Events (Skeds)
The D7412G Control Panel's internal clock and calendar helps to operate individually scheduled events (skeds). Skeds perform a specific function such as arm/disarm, relay control, or point bypassing. The D7412G Control Panel offers:
• 40 scheduled events with up to 26 different functions
• 16 open or closing windows
• Eight user windows
• Day-of-week, date-of-year, 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. Use a passcode at the keypad to activate Fire Test Mode. 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 all system functions on-site with a D5200 Programmer, or remotely through RPS. A programmable system passcode prevents unauthorized remote programming.

The control panel accommodates up to four separate telephone numbers for primary, alternate and backup receivers for automatic test reports. When resetting alarms, arming or disarming a combination fire/burglary and/or access control system, the user is identified by name and number.
## Certifications and approvals

<table>
<thead>
<tr>
<th>Region</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>UL</td>
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<td>AMCX: Central Station Alarm Units (UL1610, UL1635), AOTX: Local Alarm Units (UL464, UL609), APAW: Police Station Alarm Units (UL365, UL464), APO: Proprietary Alarm Units (UL1076), NBSX: Household Burglar Alarm System Units (UL1023), UOTZ: Control Units, System (UL864, 9th edition), UTOU: Control Units and Accessories - Household System Type (UL985)</td>
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<td>Brazil</td>
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## 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

#### Detectors
- OD850 Series Outdoor TriTech Detectors
- 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, and heat, and smoke.

#### Enclosures
- D8103 Universal Enclosure
- D8108A Attack-Resistant Enclosure
- D8109 Fire Enclosure

#### Magnetic Contacts
- All Bosch magnetic contacts, including recessed, terminal connection, miniature, overhead door, and surface mount.

#### Bells
- D440 Bell 12 V, 15 cm (6 in.)
- D441 Bell 24 V, 15 cm (6 in.)
- MB-G10-12-R Bell 12 V, 25.4 cm (10 in.)
- MB-G10-24-R Bell 24 V, 25.4 cm (10 in.)

#### Modules
- C900V2 Dialer Capture Module
- D125B Dual Class B Initiating Module
- D127 Reversing Relay Module
- D129 Class A Initiating Module
- D130 Auxiliary Relay Module
- D136 Plug-in Relay
- D185 Reverse Polarity Signaling Module
- D192C Notification Appliance Circuit Module
- D8121A Derived Channel S.T.U. Five Zone (Non-UL)
- D8122 Derived Channel S.T.U. Five Zone (UL)
- D8125MUX Multiplex Bus Interface
- D8125 POPEX Point Expander
- D8128D OctoPOPIT Eight Point Expander
- D8129 Octo-relay Module
- D9127 Series POPIT Modules
- D9131A Printer and Parallel Interface Module
- D9210BLCP 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
- DX4010i RS-232 Serial Interface Module
- DX4020 Network Interface Module
- rvm4c Remote Video Module

#### Peripheral Hardware

#### Programming
- D5200 Series Programmers
- 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
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
WP644 Series Waterproof Pass-through Readers
SC2104 Series Slave Communicators
SC3100 Series Data Transfer Radio Communicators
SC4000 Series Full Data Transfer Radio Communicator
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
FA209 Billtrap Transmitter
FA210 Universal Transmitter (Off-white)
FA210-BN Universal Transmitter (Brown)
FA210W Universal Wide Gap Transmitter (Off-white)
FA210W-BN Universal Wide Gap Transmitter (Brown)
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
Programmable Relay Outputs: 67
RF Points: 67
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 12.2 VDC to 13.9 VDC
- **Voltage (Operating):** 12 VDC
- **Voltage (AC):** 16.5 VAC 40 VA plug-in transformer (D1640)
- **Voltage (DC):**
  - Up to 2 12 VDC, 7 Ah sealed lead acid rechargeable batteries
  - Up to 2 12 VDC, 18 Ah sealed lead acid rechargeable batteries

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**D7412G Kit Ordering Information**

<table>
<thead>
<tr>
<th>Components</th>
<th>D7412G-A</th>
<th>D7412G-B</th>
<th>D7412G-C</th>
<th>D7412G-D</th>
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<tr>
<td>D7412G Board</td>
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<td>D1640 Transformer</td>
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<td>D8103 Enclosure with D101 Lock and Key Set</td>
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<td>D928 Dual Phone Line Switcher</td>
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<tr>
<td>D161 2.1 m (7 ft) Dual Modular Phone Cords</td>
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**Ordering information**

**D7412G Control Panel**
Includes one printed circuit board (PCB).
Order number **D7412G**

**D7412G Attack-Resistant Kit**
Includes one PCB, one D8108A Attack-Resistant Enclosure, and one D1640 Transformer.
Order number **D7412G-A**

**D7412G Fire and Burglar Kit**
Includes one PCB, one D8109 Fire Enclosure, one D928 Dual Phone Line Switcher, and two D161 Dual Modular Phone Cords.
Order number **D7412G-B**

**D7412G Commercial Burglar Kit**
Includes one PCB, one D8103 Enclosure, and one D1640 Transformer.
Order number **D7412G-C**

**D7412G Commercial Burglar Kit**
Includes one PCB, one D6103 Enclosure, and one D1640 Transformer.
Order number **D7412G-D**

**Accessories**

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

**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

**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

**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

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

**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

**D9002-5 Mounting Skirt**
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.
Order number D9002-5

**D136 Plug-In Relay**
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).
Order number D136

**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

**Software Options**

**RPS Kit (LPT)**
Account management and control panel-programming software with LPT connection.
Order number D5500C-LPT

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

**D7412G Control Panel**