



D9412G Control Panel



- ▶ Digital communicator with phone line monitor (loop or ground start)
- ▶ Multiple telephone numbers, primary and duplicate paths with main and alternate destinations
- ▶ All reports within each of four route groups are programmable
- ▶ Optional dual phone line switcher monitors two phone lines
- ▶ Optional network interface module for two-way communication over Ethernet networks
- ▶ Automatic test and status reports
- ▶ Time windows for arming and open or close report suppression
- ▶ Programmable answering machine work-around for remote programming on shared phone lines
- ▶ Up to 238 RF points

The G Series D9412G Control Panel provides an integrated solution for Access Control, Security, and Fire Alarm system applications. The control panel can monitor 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. The D9412G Control Panel provides eight on-board points and up to 238 off-board points. It provides up to 128 relays, and up to eight 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
- Programmable bell test
- Programmable bell shut-off timer

The D9412G Control Panel provides up to 246 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 unbyypass points, control relays, control authority levels, control door access and more

User Interface

- Supervises up to eight command centers (up to 32 unsupervised command centers 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 credentials, disarm, bypass points, and initiate system tests

- Adjustable brightness or volume for the keypad display or sounder

Note 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/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 IIIa² Communications format or retrieved with Remote Programming (RPS) software.

Communications

The D9412G 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 D9412G 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
- Remote programming attempts
- Diagnostic reports

Security and Fire Detection

The D9412G Control Panel provides eight on-board points, and up to 238 additional off-board points (depending on model and expansion interfaces). Points can be individually programmed and used to monitor all types of burglar alarm, fire alarm, and supervision devices.

Event Log

The event log stores up to 1,000 local and transmitted events. 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, you can use up to three on-site parallel printers. Use a local printer to 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 event log reaches a programmed threshold of stored events, it can send a report to a receiver.

Access events that can be stored, viewed or printed 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 internal clock and calendar help the control panel to execute individually scheduled events (skeds). Skeds perform a specific function such as arm or disarm, relay control, or point bypassing.

- 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 panels accommodate 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

| | |
|--------------|--|
| UL Standards | <ul style="list-style-type: none"> UL365, Police Station Burglar Alarm Units and Systems UL464, Audible Signal Appliances UL609, Local Burglar Alarm Units and Systems UL864 Controls units for Fire-Protective Signaling Systems - Including Central Station, Remote Station and Proprietary 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 | <p>FCC: AJ9MLU-46532-AL-E</p> <p>Factory Mutual</p> <p>CSFM:</p> <ul style="list-style-type: none"> 7165-0801:123, Control Units - Non-high Rise 7170-0801:175, Control Units - High Rise |

Installation/Configuration Notes

Compatible Products

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|-------------------|--|
| Keypads | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> D278S Four-wire Addressable Detector Base D285/TH Photoelectric Smoke Detector Heads D298S Addressable Detector Base 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, heat, and smoke. |
| Enclosures | <ul style="list-style-type: none"> D8103 Universal Enclosure D8108A Attack-Resistant Enclosure D8109 Fire Enclosure |

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| Keypads | <ul style="list-style-type: none"> D1260 Series Keypads (D1260, D1260W, D1260R, D1260BLK, D1260B) D9101 Fire Enclosure (large) |
| Magnetic Contacts | Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount. |
| Bells | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 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 D9210BLC 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 |
| Peripheral Hardware | rvm4c Remote Video Module |
| Programming | <ul style="list-style-type: none"> D5200 Series Programmers RPS or RPS-LITE Remote Programming Software |
| Readers | <ul style="list-style-type: none"> 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 |

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| Keypads | D1260 Series Keypads (D1260, D1260W, D1260R, D1260BLK, D1260B) D8304/W Series Extended Range Proximity Readers WP644 Series Waterproof Pass-through Readers |
| 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 (Off-white) with Internal Reed Switch 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

| D9412G Components | Quantity |
|-----------------------------|----------|
| D9412G Board | 1 |
| Mounting Skirt | 1 |
| Faceplate with D9412G Label | 1 |

Technical Specifications

Communications

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|-----------------------|---|
| SDI Bus A (+): | 9 VDC 4572 m (15,000 ft) |
| SDI Bus B (-): | 9 VDC 4572 m (15,000 ft) |
| Telephone Connection: | <ul style="list-style-type: none"> 2 TelCo lines D928 Dual Phone Line module required for 2 phone lines |

Environmental Considerations

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|--------------------------|---|
| Relative Humidity: | 5%-85% 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 |
| Relays: | 128 |
| Events: | Up to 1,000 |
| Hardware Addresses: | 246 |
| 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: | 40 |

Power Requirements

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| 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"> Up to 2 12 VDC, 7 Ah sealed lead acid rechargeable batteries Up to 2 12 VDC, 18 Ah sealed lead acid rechargeable batteries |

D9412G Kit Ordering Information

| Components | Kits | | |
|--|----------|----------|----------|
| | D9412G-A | D9412G-B | D9412G-C |
| D9412G Board | 1 | 1 | 1 |
| D1640 Transformer | 1 | 1 | 1 |
| D8103 Enclosure with D101 Lock and Key Set | | | 1 |
| D8108A Attack-Resistant Enclosure with D101 Lock and Key Set | 1 | | |
| D8109 Fire Enclosure with D101F Lock and Key Set | | 1 | |
| D122 Dual Battery Harness | | 1 | |
| D928 Dual Phone Line Switcher | | 1 | |
| D161 2.1 m (7 ft) Dual Modular Phone Cords | | 2 | |

Ordering Information

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| D9412G Control Panel Includes one printed circuit board (PCB). | D9412G |
| D9412G Attack-Resistant Kit Includes one PCB, one D8108A Attack-Resistant Enclosure, and one D1640 Transformer. | D9412G-A |
| D9412G Fire and Burglar Kit Includes one PCB, one D8109 Fire Enclosure, one D928 Dual Phone Line Switcher, and two D161 Dual Modular Phone Cords. | D9412G-B |
| D9412G Commercial Burglar Kit Includes one PCB, one D8103 Enclosure, and one D1640 Transformer. | D9412G-C |
| Accessories | |
| ICP-EZTS Dual Tamper Switch Combination tamper switch with a wire loop for additional tamper outputs. | ICP-EZTS |
| D101 Lock and Key Set Standard lock set with one key supplied. Uses the D102 (1358) replacement key. | 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 |
| 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 |
| D168A Telephone Remote Arming Module A remote control module that arms or disarms a security system remotely or locally through a telephone. | D168A |

Ordering Information

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| 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 |
| 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 |
| D1640 Transformer System transformer rated at 16.5 VAC, 40 VA. | D1640 |
| D8103 Enclosure Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). | 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 |
| 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. | 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). | D136 |

Ordering Information**Software Options**

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

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