

D7412G Control Panel



Security Systems



- 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 and close report suppression
- Programmable answering machine solution for remote programming on shared phone lines

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

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 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 IIIa² 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.

Parts Included

D7412G Components	Quantity
D7412G Board	1
Mounting Skirt	1
Faceplate with D7412G Label	1

Certifications and Approvals

UL Standards	UL365, Police Station Burglar Alarm Units and Systems UL609, Local Burglar Alarm Units and Systems UL864, Control Units for Fire-protective Signaling 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 Factory Mutual CSFM: <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	
Keypads	D1260 Series Keypads
	D720 Series Keypads
	D1255 Series Keypads
	D1256 Fire Command Center
	D1257 Remote Fire Alarm Annunciator
	D279A Independent Zone Control
Bells	D440 Bell 12 V, 15 cm (6 in.)
	D441 Bell 24 V, 15 cm (6 in.)
	D442 Bell 12 V, 25.4 cm (10 in.)
	D443 Bell 24 V, 25.4 cm (10 in.)
Programming	Remote Programming Software (RPS)
	D5200 Series Programmers
Modules	C900TTL-E 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
	D192G 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
	D9210B Series Access Control Interface Modules
	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

Detectors	Blue Line Detectors
	DS150i Series Request-to-exit Detectors
	DS160 Series High Performance Request-to-exit Detectors
	D601 Fixed Temperature Rate-of-rise Heat Detector
	D602 Fixed Temperature Rate-of-rise Heat Detector
	D603 Electronic Fixed Temperature Rate-of-rise Heat Detector
	D604 Electronic Fixed Temperature Rate-of-rise Heat Detector
	D605 Electronic Fixed Temperature Rate-of-rise Heat Detector
	DS308EA Quad PIR Intrusion Detector
	DS415i, DS415iDC, and DS435i Single-beam Indoor Photoelectric Detectors
	DS416 Single Beam Photoelectric Detector
	DS420 Series Dual Beam Indoor and Outdoor Photoelectric Detectors
	DS433i Single Beam Indoor Photoelectric Detector
	DS720i Long Range TriTech PIR Detector (10.525 GHz)
	DS794Z Long Range PIR Detector
	DS820i and DS835i Series TriTech PIR Detectors
	DS825 and DS840 Series TriTech PIR Detectors
	DS860 Series TriTech PIR and Microwave Detector
	DS915 Recess Mount PIR Detector
	DS918X and DS928X Ceiling-mount PIR Detectors
	DS934 PIR Detector with Replaceable Mirrors
	DS935Z PIR Intrusion Detector
	DS936 Low Profile Panoramic PIR Detector
	DS937 Panoramic Detector
	DS938Z Panoramic PIR Detectors
	DS940 Series PIR Intrusion Detectors

Detectors (Continued)	DS940P and DS940PT Series PIR Detectors
	DS940Q Quad PIR Detector
	DS950 and DS970 Series High-performance Detectors
	DS9360 Panoramic TriTech Detector
	DS9370 Series Panoramic TriTech Detector
	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	
Magnetic Contacts	All Bosch magnetic contacts, including recessed, terminal connection, miniature, overhead door, and surface mount.

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
	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

Readers	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	
	WP612 Series Waterproof Pass-through Readers	
	WP644 Series Waterproof Pass-through Readers	
	SAFECOM	SC2104 Series Slave Communicators
	Radio Communicators	SC3100 Series Data Transfer Radio Communicators
	SC4000 Series Full Data Transfer Radio Communicator	

Technical Specifications

Enclosures	<ul style="list-style-type: none"> D8103 Universal D8108A Attack Resistant D8109 Fire
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Communications

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"> Two TelCo lines D928 Dual Phone Line module required for 2 phone lines

Environmental Considerations

Relative Humidity:	5% to 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):	2
Credentials (Tokens):	396
Custom Functions:	4
Events:	Store up to 1,000
Hardware Addresses:	75
Parallel Printers:	1
Passcode Users:	99, plus 1 service passcode
Points:	75 (8 on-board, up to 67 off-board)
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 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

Ordering Information

D7412G Control Panel	D7412G
D7412G Attack-Resistant Kit	D7412G-A
D7412G Fire and Burglar Kit	D7412G-B
D7412G Commercial Burglar Kit	D7412G-C
D7412G Commercial Burglar Kit with D6103 Enclosure	D7412G-D

Hardware Accessories

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

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

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
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D138 Mounting Bracket, Right Angle	D138
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D928 Dual Phone Line Switcher	D928
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D1218 Battery (12 V, 18 Ah)	D1218
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D1224 Battery (12 V, 24 Ah)	D1224
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D1238 Battery (12 V, 38 Ah)	D1238
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D1240 Battery (12 V, 4 Ah)	D1240
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D1640 Transformer	D1640
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D8103 Enclosure	D8103
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
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D8109 Fire Enclosure	D8109
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D9002-5 Mounting Skirt	D9002-5
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D136 Plug-In Relay	D136
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Software Options

RPS D5500C-LPT Kit	D5500C-LPT
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RPS D5500C-USB Kit	D5500C-USB
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