



# D7412GV2 Control Panel



The D7412GV2 Control Panel provides an integrated solution for intrusion, access control, and fire system applications. The control panel includes a communicator that sends event reports to selected public switched telephone network (PSTN) or IP network destinations through four programmable route groups. The control panel provides up to 75 individually identified points. 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 applications.

With the D7412GV2 you can:

- Monitor alarm points for intruder or fire alarms while operating user keypads and other outputs
- Program all system functions on-site through a D5200 Programmer or remotely through Remote Programming Software (RPS).
- Add up to two doors of access control using the optional D9210BLC Access Control Interface Module.

## 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

- ▶ Fully integrated intrusion, fire, and access control allows users to interface with one system instead of three
- ▶ Conetrix IP-based communication option provides high-speed, secure alarm transport and control
- ▶ Eight programmable areas with perimeter and interior partitioning
- ▶ 75 points with flexible configuration options to meet multiple installation requirements
- ▶ Your choice of vacuum fluorescent or ATM-style user interface keypads
- ▶ New user interface functions provide additional security and flexibility
- ▶ Commercial Wireless allows up to 67 RF points

### System Response

- 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 eight keypads (up to 32 unsupervised keypads can be used)
- Custom keypad text
- 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

**Note** Use at least one keypad in each system.

### 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).

### Two Man Rule

Two Man Rule provides added security by requiring:

- Two people present at opening
- Two unique passcodes on the same keypad to disarm an area

Without the second passcode, the system denies entry.

### Early Ambush

Early Ambush requires two passcode entries on the same keypad. Enter the same passcode twice or have two unique passcodes, depending on the configuration. The first entry disarms the area and the second entry stops a timer programmed to send a duress event. If the second entry does not occur within the programmed time, the system generates a duress event. Early Ambush allows users to inspect the premises and use the system to confirm that the area is safe to enter, providing added security.

### Easy Exit Control

The D7412GV2 Control Panel changes from one armed state to another armed state without disarming. For example, if you change the state from Master Arm to Perimeter 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.

### Passcode Follows Scope

Use Passcode Follows Scope to restrict passcode arming and disarming to the keypad's immediate local area, even if the keypad can report events from other areas. Passcode Follows Scope simplifies the arming and disarming procedure without limiting any other keypad capabilities.

### 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.

### Door-Activated Custom Function

A custom function activates when user credentials are presented to a D9210B door controller's reader. The custom function behaves as though the user performed a function at the keypad associated with the door controller.

### Passcodes

User passcodes contain three to six digits. Assign each user one of 14 customized authority levels in each area. Restrict passcodes to operate only during certain times.

The Two Man Rule and Early Ambush options require two passcodes, providing additional security in financial establishments such as banks.

### Communications

The D7412GV2 Control Panel prioritizes and sends reports in BFSK or Modem IIIa<sup>2</sup> communications formats to four route groups. Each group has a programmable primary and backup destination.

The D7412GV2 works with the Conettix D6600 Communications Receiver/Gateway using a Conettix DX4020 Network Interface Module. When using a DX4020, the D79412GV2 has programmable anti-replay anti-substitution features.

The Modem IIIa<sup>2</sup> Communications Format, available with Bosch receivers, adds central station reporting capabilities such as:

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

### Security and Fire Detection

The D7412GV2 Control Panel provides eight on-board points, and up to 67 additional off-board points (depending on model and expansion interfaces). You can program individual points to monitor all types of burglar alarms, fire alarms, and supervision devices.

### Event Log

The event log stores up to 1,000 local and transmitted events. The event log includes time, date, event, area, point, and user number. View the event log from a keypad or use RPS to remotely retrieve event information. 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 an optional report to a receiver.

### Access Control

The D7412GV2 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

#### 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 D7412GV2 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

Users can program on-site with a D5200 Programmer, or program remotely through RPS. A programmable system passcode prevents unauthorized remote programming.

D7412GV2 Control Panels accommodate up to four separate telephone numbers 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.

### Certifications and Approvals

Region	Certification	
USA	UL	AMCX: Central Station Alarm Units (UL1610, UL1635), AMCX7: Central Station Alarm Units Certified for Canada (CAN/ULC-S304-M88, UL 1635), AMTB: Control Panels, SIA False Alarm Reduction (ANSI/SIA CP-01-2000), AOTX: Local Alarm Units (UL464, UL609), AOTX7: Local Alarm Units Certified for Canada (CAN/ULC-S303, CAN/ULC-S525), APAW: Police Station Alarm Units (UL365, UL464), APAW7: Police Station Alarm Units Certified for Canada (CAN/ULC-S303, CAN/ULC-S304, CAN/ULC-S525), APOU: Proprietary Alarm Units (UL1076), APOU7: Proprietary Alarm Units Certified for Canada (ULC/ORD-C1076), NBSX: Household Burglar Alarm System Units (UL1023), NBSX7: Household Burglar Alarm System Units Certified for Canada (ULC/ORD-C1023), UOJZ: Control Units, System (UL864, 9th edition), UTOU: Control Units and Accessories - Household System Type (UL985), UTOU7: Control Units and Accessories - Household System Type Certified for Canada (ULC-S545s)
		FM
		CSFM 7165-1615: 119
		FCC AJ9-MUL-46532-AL-E
		NYC-MEA 12-92-E, Vol. 15
Canada	IC	1249A-GV2

### 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



ISW-EN1215WEOL Door-Window Transmitter with Wall Tamper, Reed Switch, and EOL Resistor

ISW-EN1223D Water-resistant Pendant Transmitter (Double-button)

ISW-EN1223S Water-resistant Pendant Transmitter (Single-button)

ISW-EN1223SK Survey Pendant Transmitter

ISW-EN1233D Necklace Pendant Transmitter (Double-button)

ISW-EN1233S Necklace Pendant Transmitter (Single-button)

ISW-EN1235D Beltclip Pendant Transmitter (Double-button)

ISW-EN1235S Beltclip Pendant Transmitter (Single-button)

ISW-EN1235DF Fixed-location Transmitter (Double-button)

ISW-EN1235SF Fixed-location Transmitter (Double-button)

ISW-EN1242 Smoke Detector-Transmitter

ISW-EN1247 Glass-break Sensor Transmitter

ISW-EN1249 Billtrap Transmitter

ISW-EN1260 PIR Motion Sensor Transmitter (Commercial and High-end Domestic Applications)

ISW-EN1261HT PIR Motion Sensor Transmitter (High-traffic Areas)

ISW-EN1262 PIR Motion Sensor Transmitter (Residential and Low-traffic Commercial Applications)

ISW-EN1265 PIR Motion Sensor Transmitter (Ceiling-mount Applications)

## Parts Included

D7412GV2 Components	Quantity
D7412GV2 Board	1
Mounting Skirt	1
Faceplate with D7412GV2 Label	1

## Technical Specifications

### Communications

SDI Bus A (+): 9 VDC  
4572 m (15,000 ft)

SDI Bus B (-): 9 VDC  
4572 m (15,000 ft)

Telephone Connection:

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

### 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: 8

Card Readers (Doors): 2

Credentials (Tokens): 396

Custom Functions: 4

Events: Store up to 1,000

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 (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)

**D7412GV2 Kit Ordering Information**

Components	Kits					
	D7412GV2-A	D7412GV2-CA-A	D7412GV2-B	D7412GV2-C	D7412GV2-CA-C	D7412GV2-D
D7412GV2 Board	1		1	1		1
D7412GV2-CA Board		1			1	
D101F Lock and Key Set				1	1	1
D122 Dual Battery Harness			1			
D161 2.1 m (7 ft) Dual Modular Phone Cords			2			
D928 Dual Phone Line Switcher			1			
D1640 Transformer	1		1	1		1
D1640-CA Transformer		1			1	
D6103 Enclosure						1
D8103 Enclosure				1	1	
D8108A Attack-Resistant Enclosure	1	1				
D8109 Fire Enclosure			1			

**Ordering Information****D7412GV2 Control Panel****D7412GV2**

Includes one printed circuit board (PCB).

**D7412GV2 Control Panel for Canada****D7412GV2-CA**

For use in Canada. Includes one printed circuit board (PCB) and assorted installation hardware.

**D7412GV2 Attack-Resistant Kit****D7412GV2-A**

Contains one PCB, one transformer, and one attack-resistant enclosure.

**D7412GV2 Attack-Resistant Kit for Canada****D7412GV2-CA-A**

For use in Canada. Contains one PCB, one transformer, and one attack-resistant enclosure.

**D7412GV2 Fire and Burglar Kit****D7412GV2-B**

Contains one PCB, one dual battery harness, two telephone cords, one telephone line switcher, one transformer, and one fire enclosure.

**D7412GV2 Commercial Burglar Kit****D7412GV2-C**

Contains one PCB, one lock and key set, one transformer, and one universal enclosure.

**D7412GV2 Commercial Burglar Kit for Canada****D7412GV2-CA-C**

For use in Canada. Contains one PCB, one lock and key set, one transformer, and one universal enclosure.

**D7412GV2 Burglar Kit****D7412GV2-D**

Contains one PCB, one lock and key set, one transformer, and one D6103 Enclosure.

**Ordering Information****Accessories****ICP-SDI-9114 SDI Splitter****ICP-SDI-9114**

Provides the ability to set up two independent SDI buses from a single SDI connection on the control panel.

**D928 Dual Phone Line Switcher****D928**

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.

**D110 Tamper Switch****D110**

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

**ICP-EZTS Dual Tamper Switch****ICP-EZTS**

Combination tamper switch with a wire loop for additional tamper outputs.

**D101 Lock and Key Set****D101****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 12V batteries to compatible control panels.

**D126 Standby Battery (12 V, 7 Ah)****D126**

Sealed lead-acid standby and auxiliary rechargeable power supply.

**D1218 Battery (12 V, 18 Ah)****D1218**

A 12V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors.

**D1224 Battery (12 V, 26-28 Ah)****D1224**

A 12V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors.

## Ordering Information

<b>D1238 Battery (12 V, 38 Ah)</b>	<b>D1238</b>
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.	
<b>D137 Mounting Bracket</b>	<b>D137</b>
Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.	
<b>D138 Mounting Bracket, Right Angle</b>	<b>D138</b>
Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.	
<b>D1640 Transformer</b>	<b>D1640</b>
<b>D1640 Transformer for Canada</b>	<b>D1640-CA</b>
For use in Canada. System transformer rated at 16.5 VAC, 40 VA.	
<b>D8004 Transformer Enclosure</b>	<b>D8004</b>
For applications such as fire alarm that might require a transformer enclosure.	
<b>D8103 Enclosure</b>	<b>D8103</b>
<b>D8108A Attack Resistant Enclosure</b>	<b>D8108A</b>
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.	
<b>D8109 Fire Enclosure</b>	<b>D8109</b>
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.	
<b>D9101 Fire Enclosure</b>	<b>D9101</b>
Large red enclosure for fire applications. It is constructed of 16 gauge (1.5 mm) cold rolled steel and measures (HxWxD) 37.4 in x 23.5 in. x 2.4 in. (94.8 cm x 59.6 cm x 10.5 cm).	
<b>D9002-5 Mounting Skirt</b>	<b>D9002-5</b>
<b>Software Options</b>	
<b>RPS Kit (LPT)</b>	<b>D5500C-LPT</b>
Account management and control panel-programming software with LPT connection.	
<b>RPS Kit (USB)</b>	<b>D5500C-USB</b>
Account management and control panel-programming software with USB connection.	

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