

G Series: D7212G Control Panel

The D7212G Control Panel provides an integrated solution for Security (commercial and residential) and Fire Alarm system (residential only) applications. The control panel is capable of monitoring alarm points for intruder or fire alarms while operating user command centers and other outputs. Each control panel includes a built-in communicator that reports events to selected PSTN or IP network destinations via four programmable route groups. Programming and accessory modules offer flexibility and beneficial features rarely found in other security control systems.

The D7212G provides eight on-board and up to 32 off-board detection points and 24 relays.

■ Control Features

- Eight on-board detection points, up to 32 off-board detection points
- 24 relays
- 4 programmable areas with perimeter/interior partitioning (regular, master, associate, or shared option by area)
- Real-time clock and test timer
- Up to 1000-event log (including event modifiers), including time, date and event with area, point and user number
- Battery charging circuit, AC power and voltage supervision
- Automatic reset circuit breakers
- Lightning and EMI suppression
- Power limited external circuits

■ Communication Features

- Built-in 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 network interface module for bi-directional communication over Ethernet networks
- Automatic test and status reports
- Time windows for arming and open/close report suppression
- Programmable answering machine work-around for remote programming on shared phone lines

■ Functionality

Programmable outputs

- 2 A alarm power @ 12 VDC
- 1.4 A auxiliary power @ 12 VDC
- Four alarm output patterns
- Automatic bell test
- Programmable bell shut-off timer
- Three on-board outputs; 24 off-board programmable outputs

The D7212G Control Panel provides up to 40 individually identified addresses. Each address accommodates normally open and/or normally closed devices with end-of-line resistor supervision. Each point is programmable for fire, fire supervisory, or burglary applications. Point output can be silent or audible. Audible output can be steady, pulsed, CA standard, or temporal code three.

System response

- 31 custom point indexes, including fire supervisory
- Selectable point response time
- Cross point compatibility
- Fire alarm verification
- Watch mode
- Scheduled events (Skeds) arm, disarm, bypass and unbypass points, control relays, control authority levels, control door access and more

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 interface

- Supervises up to eight command centers (up to 32 non-supervised command centers can be used)
- Custom command center text
- Four custom functions
- Full function command menu including custom functions
- Each user has authority by area and 16-character name
- Fourteen custom authority levels control user's authority to change, add, delete pass codes or access control tokens/cards, disarm, bypass points, initiate system tests, and more
- Up to 64 programmable, scheduled event functions are available for controlling relays, enabling pass codes and windows, and automatically arming/disarming areas
- Adjustable brightness/volume for command center display/sounder
- One parallel printer

The D7212G provides on-premises point and system status annunciation. The fully selectable user interface customizes command center displays and allows users to create appropriate menu items and functions.

Function lists can help a user become familiar with the operation of the control panel and Custom Functions allow users to perform complex functions with a few keystrokes. Each function can be programmed and identified by 16 characters of custom text and can contain up to 32 keystrokes.

Note: At least one command center per system is recommended.

User pass codes

Each pass code individually programs with three to six digits in length and no fixed digits. Each user is assigned one of fourteen customized authority levels in each area. Pass codes may be restricted to operate only during certain times. Each user may have a 16-character customized name that may be viewed, printed, reported to a central station in Modem IIIa² Communications format or retrieved with Remote Programming Software (RPS) software.

Security and fire detection

The D7212G Control Panel provides eight "on-board" detection points, and up to 32 additional off-board points (depending on model and expansion interfaces). Points may be individually programmed and used to monitor all types of burglar alarm, fire alarm, and supervision devices.

Communications

The D7212G 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 D7212G is compatible with the D6600 NetCom Communications System using a D9133TTL-E Ethernet Interface Module. It has programmable Anti-replay Anti-substitution when using a D9133TTL-E.

The Modem IIIa² Communications Format, available with Bosch receivers, adds reporting capabilities such as:

- Individual point numbers and text
- Opening/Closing reports by area number
- Remote programming attempts
- Diagnostic reports

Event log storage, viewing and printing

All local and transmitted events (up to 1000 total events) are stored in a log. The event log includes time, date and event, with area, point and user number. Users may view the event log from Alpha Command Centers. Events may be retrieved remotely using the Remote Programming Software (RPS) software. With the correct printer interface module installed, the D7212G Control Panel allows the use of one on-site parallel printer. The Event Log and a local printer can provide a record of openings and closings without extra communications costs. RPS operators may retrieve events periodically using one phone call, rather than receiving several calls each day. When the panel's event log reaches its programmed threshold of stored events, it can send a report to a receiver. This report reminds the central station to retrieve events from the panel's event log.

Scheduled events (Skeds)

The G Series Control Panels' internal clock and calendar help the panel(s) operate individually scheduled events (Skeds). Skeds perform a specific function (such as arm/disarm, relay control, or point bypassing).

- 64 scheduled events with up to 16 different functions
- Day-of-week or date-of-year schedules
- Four holiday schedules of 366 days each (leap year)

Fire test

All reports to the central station are suppressed when a user activates Fire Test Mode. Fire Test Mode is activated with a pass code at the command center. All testing data is visible on the command center and annunciator displays during testing. An automatic sensor reset feature eliminates the time-consuming process of resetting the sensors manually. At the end of test, the command center displays the number of untested points.

RPS and RPS Lite

These account management and programming software packages allow computers to act as remote programming, record storage, remote control and troubleshooting tools for the D7212G Control Panel. The D7212G is compatible with the RPS Unattended Operation capability over a local or wide area network. The computers must be equipped with the Microsoft[®] Windows[®] Operating System and a modem. RPS can be used in a TCP/IP and Dynamic Host Communication Protocol (DHCP) configuration to enhance download/upload capabilities.

Programming, diagnostics and controls

Users can program all system functions on-site via a D5200 Programmer, or remotely via Remote Programming Software (RPS) software. A programmable system pass code 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 name and number identify the user.

■ Approvals

Listings	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: AJ9MUL-46532-AL-E
CSFM	Control Units (Household) 7167-1615:100

■ Specifications

Communications	
SDI Bus A (+):	9 VDC 4572 m (15000 ft.)
SDI Bus B (-):	9 VDC 4572 m (15000 ft.)
Telephone Connection:	RJ31X or RJ38X
Enclosures	
	D8103 Universal D8108A Attack Resistant D8109 Fire
Environmental Considerations	
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:	4
Custom Functions:	4
Detection Points:	40 (eight on-board, up to 32 off-board)
Events:	Store up to 1000
Hardware Addresses:	40
Parallel Printers:	1
Pass code Users:	99, plus 1 service pass code
RF Points:	32
Power Requirements	
Output (Alarm):	2 A @ 12 VDC
Output (Auxiliary, Continuous Power, and Switched Auxiliary combined):	1.4 A @ 10.2 VDC to 13.9 VDC
Voltage (Operating):	12 VDC
Voltage (AC):	16.5 VAC 40 VA two plug-in transformer (D1640)
Voltage (DC):	Up to two 12 VDC, 7 Ah sealed lead acid rechargeable batteries Up to two 12 VDC, 18 Ah sealed lead acid rechargeable batteries

■ Hardware Accessories

Command Centers and Accessories

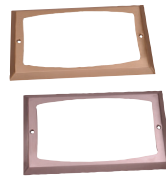
D54B/D54C Flush Mount Kits



Back box and polished brass or stainless steel faceplates. Used with: D279A, D720, D1255, D1256, and D1257.

D54B: brass, D54C: stainless steel

D54B-1260/D54C-1260 Flush Mount Kits for D1260



Back box and polished brass or stainless steel faceplates used with D1260 Alpha V command center.

D54B-1260: brass, D54C-1260: stainless steel

D55 Command Center Desk Stand



Portable desk stand in smoke colored Plexiglas. Used with D279A/AW, D720/W/R, D1255/W/R, D1256, D1257, and D1260.

D56/D56R Command Center Keypad Conduit Box



Surface mount box for installations requiring conduit to the Command Centers: D279A/AW, D720/W/R, D1255/W/R, D1256, D1257, and D1260. Command Centers mount on conduit box. Dimensions (H x W x D): 116 mm x 210 mm x 27 mm (4.56 in. x 8.25 in. x 1.05 in).

D56: white, D56R: red

D279A/D279AW Independent Zone Control



Self-contained independent point control allows individual points to be armed and disarmed separately from the rest of the system. Includes one user-programmable pass code and built-in panic button. A single zone can be branched into one instant loop and one delayed loop. Initiates opening and closing reports from a single control panel point. Includes built-in form "C" relay, entry delay buzzer, one delay loop LED, one instant loop LED and one armed LED.

D279A: off-white, D279AW: white

D720/D720W/D720R Eight Point LED Command Center



Low profile digital command center with backlit keypad. Annunciates system status with indicator LEDs and piezoelectric sounder. Individual point-status LEDs indicate condition of up to eight points including fault, alarm memory and bypass. Includes three programmable one-touch "function" keys, and a four-wire connection.

D720: off-white, D720W: white, D720R: red

D1255/D1255W/D1255R Alpha IV Command Center



Digital arming station illuminates when keys are pressed. Provides a 16-character vacuum-fluorescent English-language display, and a built-in speaker with distinct warning tones. Permits remote control of relays and real-time clock display. Allows users to perform system tests and add, delete or change pass codes.

D1255: off-white, D1255W: white, D1255R: red

D1256 Fire Command Center



Digital fire alarm control station with 16-character vacuum-fluorescent, alphanumeric display. Provides system control over fire areas, housed in red plastic, annunciator programmable text identifying specific alarm, trouble and supervisory conditions.

D1257 Remote Fire Alarm Annunciator



Housed in red plastic, display 16-character customizable English text identifying devices and point of alarm. Housed in red plastic, annunciator programmable text identifying specific alarm, trouble and supervisory conditions. For use in public places. Does not provide system control.

D1260 Alpha V Command Center



Digital arming station illuminates when keys are pressed. Provides a four-line by 20-character LCD English-language display and a built-in speaker with distinct warning tones. Features eight soft keys. Resembles an ATM-style user interface. Permits remote control of relays and real-time clock display. Allows users to perform system tests and add, delete or change pass codes.

D5200 Hand-held Programmer



Portable hand-held local programmer. Operates on four "C" cell batteries (included). Expanded storage capability allows additional handlers and records to be stored. Portable laptop programmer used for on-site programming and contains all hardware necessary to program the system.

Zone Expansion and Interface Modules

C900TTL-E Dialer Capture Module



Designed to link an alarm panel's digital dialer to a Bosch D6600 Communications Receiver/Gateway and to switch the panel dialer to a telephone line in the event of a communications failure. Works with most modern control panels and uses an Ethernet connection on a LAN/WAN. Can be mounted to a 3-hole configuration using a D137 Mounting Bracket (purchased separately).

C900TTL-E: for Ethernet port

D130 Auxiliary Relay Module (12/24 VDC)



Provides 5 A-rated contacts for switching auxiliary voltages and currents. Provides two form "C" dry outputs, polarized relay coil operates on 12 VDC or 24 VDC.

D136 Plug-In Relay



Accessory relay for control panels and modules. Maximum rating is 1 A @ 24 VDC or 2 A @ 12 VDC. Available individually (D136) or in a package of 25 (D136-25).

D8125 POPEX Point Expander



Provides a multiplexed data backbone for point expansion. Used with D9127T or D9127U POPITs or addressable detectors with built-in POPITs. Dimensions (H x W): 76 mm x 127 mm (3 in. x 5 in.).

D8128D OctoPOPIT, Eight Point Expander



Eight POPITs built into one OctoPOPIT. Can be used in conjunction with POPEX and POPIT, but does not require POPEX (D8125). OctoPOPIT may not be suitable for fire supervisory devices or fire initiating unless interfaced with D125B or D129 modules. Use with G Series Control Panels on ZONEX 1 (or ZONEX 2 on D9412G Control Panel only).

D8129 Octo-Relay Module



Contains eight dry-contact relay outputs, each relay is Form "C" rated at 1 A at 12 VDC, relays can be operated manually either through the command center, or remotely from the central station using RPS. Relay response can be programmed for automatic operations using various pre-programmed parameters within the panel.

D9127T/D9127U POPIT Module



A 38 mm x 76 mm (1.5 in. x 3 in.) hardwired module providing individual annunciation of alarms, troubles, restorals and "missing" conditions relating to a unique detection device. POPITs are wired in parallel on the D8125 data backbone. Each detector loop is supervised with a 33 k Ω EOL resistor. Requires the D8125 POPEX Point Expander.

D9127T: includes a magnetic tamper switch

D9127U: does not include a tamper switch

ZX776Z PIR Detector



A surface or corner mount PIR detector with POPIT interface. The coverage is:
Standard Broad 15 m x 15 m (50 ft. x 50 ft.)
Barrier (Optional) 24.4 m x 4.8 m (80 ft. x 16 ft.)
Long Range (Optional) 36.6 m x 3.1 m (120 ft. x 10 ft.)

ZX794Z PIR Detector



A surface or corner mount long-range PIR detector with POPIT interface requiring 4-wire connection. Includes an OA80 and an OA200 mirror. The coverage is:
Standard OA80 24.4 m x 15.3 m (80 ft. x 50 ft.)
Optional OA120 36.6 m x 7.6 m (120 ft. x 25 ft.)
Optional OA200 61.0 m x 3.1 m (200 ft. x 10 ft.)

D9131A Printer/Parallel Printer Interface Module



A four-wire parallel printer interface that can be mounted up to 305 m (1000 ft.) from the control panel. Prints 80-character, single-line information including: date, time, event, account number, area number, user ID with text, point # with text and access events. Connects to a standard parallel printer via a standard parallel cable.

ZX835 PIR/Microwave Detector



A 11 m (35 ft.) PIR/Microwave detector with PIR/Microwave supervision requiring 4-wire connection.

D9133 Serial Interface Module



Serial Device Interface (SDI) bus device used for bi-directional serial communications. Communicates at 300, 1200, 2400, 4800, and 9600 baud.

ZX935Z PIR Detector



A surface or corner mount PIR detector with POPIT interface requiring 2-wire connection. The coverage is:
Standard Broad 10.7 m x 10.7 m (35 ft. x 35 ft.)
Barrier (Optional) 10.7 m x 3.1 m (35 ft. x 10 ft.)
Long Range (Optional) 21.4 m x 3.1 m (70 ft. x 10 ft.)
Pet (Optional) 10.7 m x 10.7 m (35 ft. x 35 ft.) with 21.4 m (70 ft.) Long Range

D9133DC Serial Network Interface Module



SDI bus device for use with RPS or RPS Lite software. Offers enhanced programming, diagnostic trouble-shooting, and history retrieval.

ZX938Z PIR Detector



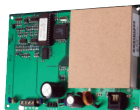
A ceiling mount PIR detector with POPIT interface requiring 2-wire connection. The coverage is 360° x 18.3 m (60 ft.) when mounted on 2.4 m to 5.5 m (8 ft. to 18 ft.) high ceilings. Pattern consists of 64 zones grouped into 16 barriers, with one additional zone looking straight down from the unit (sabotage). Each barrier is 9.2 m (30 ft.) long and 1.3 m (4.4 ft.) wide at 9.2 m (30 ft.). Choice of two optical modules depending on ceiling height.

D9133TTL-E Serial Network Interface Module



SDI bus device used for bi-directional communication over networks. Typically used for event reporting and remote programming for NetCom systems.

PC9133TTL-E Network Interface Module



SDI bus device used for bi-directional communication over networks. Typically used for Ethernet communications with control panels to PC9000.

ZX970 PIR/Microwave Detector



A surface or corner mount PIR/Microwave detector with a microwave frequency of 10.525 GHz, ± 25.000 MHz requiring 4-wire connection. The coverage is:
Standard Broad (Included) 21.4 m x 21.4 m (70 ft. x 70 ft.)
Long Range (Optional) 31 m x 3.1 m (100 ft. x 10 ft.)

Multiplex Zone Expansion and Interface Modules

D8125MUX Multiplex Bus Interface



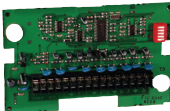
Required to connect multiplex points to the Zonex Bus on the G Series Control Panels. Capable of driving two independent buses.

D5060 Multiplex Programmer



Required for programming the multiplex bus points on G Series Control Panels. It is also used to program and read information to and from a D8125MUX Multiplex Bus Interface. The D5060 is not required to program the DS7457I, DS7457iF, DS7460I, DS7461I, or DS7465I Modules.

DS7432 Eight-Input Remote Module (MX2040)



Provides eight supervised input zones for connection of additional Normally Open or Normally Closed inputs. Connects to multiplex bus. Requires a D8125MUX Multiplex Bus Interface.

DS7457i/DS7457iF Single Zone Multiplex Input Module



Provides one supervised input zone for connection of conventional Normally Open or Normally Closed inputs. Connects to multiplex bus. Requires a D8125MUX Multiplex Bus Interface.
The DS7457iF is UL Listed for commercial fire applications.

DS7460i Two-Input Module



Provides two supervised input zones for connection of conventional Normally Open or Normally Closed inputs. Connects to addressable bus. Requires a D8125MUX Multiplex Bus Interface.

DS7461i Single Input Multiplex Module



Used to monitor conventional Normally Open or Normally Closed dry contacts and reports their status as multiplex addresses to the panel. Can monitor one loop; occupies one multiplex zone address on panel. Requires D8125MUX Multiplex Bus Interface. Fits most intrusion detectors and connects using flying leads. Supplied with an enclosure. DIP switch programmable.

DS7465i Input/Output Module



Provides one supervised input for connection of conventional Normally Open or Normally Closed inputs. Also provides one programmable Form "C" relay to follow system events for the status of specific zones. Connects to addressable bus and occupies two addresses. Requires a D8125MUX Multiplex Bus Interface.

MX250 Series Smoke Detectors



The MX250 and MX250TH are UL Listed, open-area addressable photoelectric smoke detectors. The MX250TH has a built-in $+57^{\circ}\text{C}$ ($+135^{\circ}\text{F}$) heat detector. Each MX250 requires an MXB2W base. Equipped with rotary switches for address setting and ChamberCheck Self Diagnostics. Requires a D8125MUX Multiplex Bus Interface.

MX775i Addressable PIR



A 7.2 m (50 ft.) microprocessor-based wall mount, addressable PIR detector. Uses Motion Analyzer II Processing. Includes Motion Monitor and three sensitivity settings. Internally pointable field replaceable mirrored optics provide three coverage patterns. Requires a D8125MUX Multiplex Bus Interface. Occupies one zone.

MX794i Long Range Multiplex PIR Intrusion Detector



A microprocessor-based wall mount, DIP switch programmable PIR intrusion detector. Uses Motion Analyzer II Processing and has three sensitivity settings. Field replaceable mirrored optics provide three coverage patterns. Includes an OA80 and an OA200 mirror. Requires a D8125MUX Multiplex Bus Interface. The coverage is:
Standard OA80 24.4 m x 15.3 m (80 ft. x 50 ft.)
Optional OA120 36.6 m x 7.6 m (120 ft. x 25 ft.)
Optional OA200 61.0 m x 3.1 m (200 ft. x 10 ft.)

MX835 Addressable TriTech PIR/Microwave Detector with Animal Immunity



An 11 m (35 ft.) PIR/Microwave detector including PIR/Microwave supervision features. Requires a D8125MUX Multiplex Bus Interface. Occupies one zone.

MX934i Addressable PIR



An 11 m (35 ft.) microprocessor-based wall mount, dipswitch programmable PIR detector. Uses Motion Analyzer II Processing and has two sensitivity settings. Internally pointable field replaceable mirrored optics provide four coverage patterns. Requires a D8125MUX Multiplex Bus Interface. Occupies one zone.

MX938i Addressable PIR



An 18 m (60 ft.) diameter microprocessor-based ceiling mount, addressable PIR detector. Uses Motion Analyzer II Processing. Includes three sensitivity settings field replaceable mirrored optics. Requires a D8125MUX Multiplex Bus Interface. Occupies one zone.

MX950 Addressable PIR



A 7.2 m (50 ft.) microprocessor-based dual technology wall mount, four-wire addressable PIR/microwave detector. Supervision features include anti-masking protection and Motion Monitor. Four coverage patterns using field replaceable Fresnel lenses. Requires a D8125MUX Multiplex Bus Interface. Occupies one zone.

Premises RF Expansion and Interface Modules

D8125INV Wireless Interface



Required to connect Inovonics FA400 Receiver. Includes 2-line by 16-character keypad for enrolling transmitters, and performing premises RF diagnostic functions.

FA116 Executive Programmer



Programs all multi-channel FA series receivers and sets receiver and transmitter parameters. Permits transmitter zoning. The programming cables store in a rear compartment. Available C404 adapter: stereo jack to four-pin header (not included). Features a 16-key tactile keypad and a built-in bench stand. Automatically powers up when cable is connected to a receiver.

FA202 Photoelectric Smoke Detector



Fully supervised 900 MHz transmitter that monitors sensitivity and operational status and transmits a CleanMe signal when service is needed. Features a low profile design and a disposable optical block chamber for on-site cleaning. Operates on two 3 V Lithium batteries.

FA203S/FA203D Necklace Pendant Transmitter



LED flashes with all transmissions, including supervision, confirming operation. Can be supervised. The transmitter includes a neck cord or can be mounted for fixed position signaling.

FA203S: single button

FA203D: double button to minimize false alarms; both buttons must be pushed simultaneously

FA204 Pendant Transmitter



Personal emergency signaling device. Supervised pendant comes with neck cord or optional holster (ACC624). Features two side buttons to minimize false alarms; the buttons must be pushed simultaneously.

FA205S/FA205D Belt Clip/Loop Transmitter



LED flashes with all transmissions, including supervision, confirming operation. Supervised pendant includes a belt clip that can be converted to belt loop. The transmitter can also be mounted for fixed position signaling.

FA205S: single button

FA205D: double button to minimize false alarms; both buttons must be pushed simultaneously

FA206DS PIR Transmitter



Passive Infrared transmitter for larger commercial applications. Features advanced signal processing for reduction in false alarms and a tamper protected case. The three-minute sleep time after alarm detection maximizes battery life. Features pointable, mirrored optics. Compatible with optional long-range mirror (OMLR77-3) or barrier mirror (OMB77-3). Coverage is 15 m x 15 m (50 ft. x 50 ft.).

FA206i PIR Transmitter



Passive infrared transmitter for residential and high-traffic commercial applications. Features advanced signal processing for reduction in false alarms, and a tamper protected case. Coverage is 15 m x 15 m (50 ft. x 50 ft.).

FA209 Billtrap Transmitter



This transmitter offers a thin profile with the ruggedness of hardwire billtrap. It features a fully supervised metal cash drawer while allowing easy drawer removal. Choose instant transmission or SelectStart feature which delays 10 seconds before transmitting.

FA250 High Power Universal Transmitter



Fully supervised transmitter with programmable check-ins at 1 minute or 5 minute intervals. For use with any standard contact or sensor. Comes with case tamper and supports an EOL resistor. Similar to the FA210 but with more power and up to four times the open-field range. Ideal for buddy systems, very large sites, and/or sites with separate buildings.

FA210 Reduced-Size Universal Transmitter



Fully supervised transmitter with programmable check-ins at 1 minute or 5 minute intervals. For use with any standard contact or sensor. Comes with case tamper and supports an EOL resistor.
FA210: off-white, FA210-BN: brown

FA400 Remote Receiver



Interfaces with the D8125INV Wireless Interface. Provides pathway for FA Series Wireless Transmitters to communicate serially with G Series Control Panels.

FA210W Reduced-Size "Wide Gap" Door/Window Transmitter



Fully supervised transmitter with programmable check-ins at 1 minute or 5 minute intervals. For use with any standard contact or sensor. Comes with case tamper and supports an EOL resistor. Includes two built-in magnetic reed switches and magnet supporting a gap of 16 mm (0.63 in.).
FA210W: off-white, FA210W-BN: brown

FA404R Four-Transmitter, Two-Output Receiver with Relays



Provides two outputs, one for alarm and one for fault. Fully supervises up to four FA transmitters. Includes a knockout for taking wiring through back of case. Features an easy-to-read alarm, clearly labeled fault LEDs, and a snap-on/pry-off cover with easy access to reset button. Allows users to program transmitters without a programmer by using the default information stored in receiver. Users can select N/O or N/C configuration for each output. Provides mechanical Form "C" relays for connecting to any panel or for stand-alone wireless applications.

FA216L/FA216H Temperature Transmitter Family



Ideal for greenhouses, barns/stables, commercial refrigerators, laboratories and computer/telecommunications rooms.
FA216L: Sends alarm message if ambient temperature falls to +6°C (+43°F)
FA216H: Sends alarm message if ambient temperature reaches +57°C (+135°F)

FA416R 16-Transmitter, Four-Output Receiver with Relays



Provides four programmable outputs for alarm or trouble, one global trouble output. Includes a knockout for taking wiring through back of case. Features easy-to-read alarm and fault LEDs, a snap on/pry off cover with easy access to programmer receptacle and reset button, and case tamper. Allows users to program four transmitters without a programmer by using the default information stored in the receiver. Users can select N/O and N/C configuration for each output. Provides mechanical Form "C" relays for connecting to any panel or for stand-alone wireless applications.

FA223S/FA223D Single/Double Button Water Resistant Pendant



Feature a water-resistant design and a flashing LED indicator.
FA223S: Single button pendant; comes with neck cord and belt clip; ideal for assisted living installations
FA223D: Double button pendant; buttons must be pushed simultaneously for alarm; ideal for patrolling guards and bank and retail store employees; LED indicator is dimmer to minimize unwanted observation

FA570 High Power Indoor Repeater



Effectively enhances the range of transmissions without wiring or programming. Signal Synchronization Processing minimizes the excessive signal generation problem that occurs with conventional store and forward repeaters. Easy to install – just mount and plug into an AC outlet. The flexible design monitors the battery, and protects the case against tamper (requires optional contacts). The repeater can be programmed as a point for supervising the radio link from the repeater to home receiver. Suited for indoor installations. Allows a virtually unlimited number of repeaters to be added to any job. Allows repeater to be customized for each application.

FA575 High Power Repeater



Effectively enhances the range of transmissions without wiring or programming. Signal Synchronization Processing minimizes the excessive signal generation problem that occurs with conventional store and forward repeaters. Easy to install – just mount and plug into an AC outlet. Flexible design monitors battery and protects the case against tamper (requires optional contacts). The repeater can be programmed as a point for supervising radio link from the repeater to a home receiver. Features attractive weatherproof housing suited for indoor or outdoor installations. Allows a virtually unlimited number of repeaters to be added to any job. Allows repeater to be customized for each application.

Fire System Accessories

D125B Dual Class B Initiating Module



Provides Class B (formerly Style A) circuits for two loops. Each loop has individual alarm/trouble output; used with fire alarm initiating devices such as smoke detectors and can also be used with powered glass break detectors. Compatible with 12 V detection devices or 2-wire 24 V devices when using a separate 24 V auxiliary power supply. Requires a D138 mounting bracket when used with a D9101 enclosure.

D129 Class A Initiating Module (Style D)



Interfaces the control panel to fire alarm and water flow initiating devices. Provides Class A (Style D) circuitry for one or two loops, includes adjustable (up to 90 s) reset/retard for each loop. Requires a D138 mounting bracket when used with a D9101 mounting enclosure.

D132B Polarity Reversing Module



Reverses polarity on the smoke detector loop during alarm. Can be used to activate the sounder in smoke detectors with the sounder feature.

D192C Notification Appliance Circuit Module



Supervises Class "B" notification circuits. Compatible with 12 VDC control panels. Allows an output of 1.8 A at 12 VDC or 24 VDC.

D192G Notification Appliance Circuit Module



Compatible with 12 VDC control panels. Supervises Class "B" notification circuits. Allows an output of 3.0 A at 12 VDC or 24 VDC.

D278S 12 V Smoke Detector Base



Addressable detector base with a built-in POPIT to provide individual addresses on the FACP data expansion circuit. Compatible with the:
D285 Photoelectric Smoke Detector Head
D285TH Combined Photoelectric and Fixed Heat Detector Head
The base address point is set via a seven-position dipswitch located in the detector base. Device address is independent of the device's location on the circuit.

D298M 24 V Smoke Detector Base, Master



Addressable detector base with a built-in POPIT to provide individual addresses on the FACP data expansion circuit. Compatible with the:
D285 Photoelectric Smoke Detector Head
D285TH Combined Photoelectric and Fixed Heat Detector Head
The base address point is set via a seven-position DIP switch located in the detector base. Device address is independent of the device's location on the circuit. Configured in Class "B" (two-wire) detector circuits. Requires a 3 k Ω EOL resistor to complete the circuit and provide supervision.

D298S 24 V Smoke Detector Base



Addressable detector base with a built-in POPIT to provide individual addresses on the FACP data expansion circuit. Compatible with the:
D285 Photoelectric Smoke Detector Head
D285TH Combined Photoelectric and Fixed Heat Detector Head
The base address point is set via a 7-position DIP switch located in the detector base. Device address is independent of the device's location on the circuit.

D1256 Fire Command Center



Digital fire alarm control station with 16-character vacuum-fluorescent, alphanumeric display. Provides system control over fire areas, housed in red plastic, annunciator programmable text identifying specific alarm, trouble and supervisory conditions.

D1257 Remote Fire Alarm Annunciator



Housed in red plastic, display 16-character customizable English text identifying devices and point of alarm. Housed in red plastic, annunciator programmable text identifying specific alarm, trouble and supervisory conditions. For use in public places. Does not provide system control.

D8109 Fire Enclosure



A 1.5 mm thick (16-gauge) red steel enclosure for control/communicators. UL Listed for Central Station Fire, Local Fire, and Remote Station Fire (NFPA 72). Lock and key set (D101F) included. Measures (H x W x D) 40.6 cm x 40.6 cm x 8.9 cm (16 in. x 16 in. x 3.5 in.).

D8123 Bell Noise Filter



Used to suppress noise impulses emitted from motor or solenoid-type bells. Protects alarm outputs of control panels from such impulses. Designed for fire alarm applications requiring functions such as release of fire doors and elevator recall. Activates when an alarm is initiated in any zone programmed for fire alarm service. Provides two dry Form "C" contacts rated at 5 A each for control functions. When used with the D9124, the filter requires the use of the D138 mounting bracket.

DS7457iF Miniature Single Input Multiplex Module for Fire Applications



Monitors conventional Normally Open or Normally Closed dry contacts and reports their status as multiplex addresses to the panel. Can monitor one loop, occupies one multiplex zone address on the panel. Requires the D8125MUX. Fits most detectors and connects using flying leads. DIP switch programmable. UL Listed for commercial fire applications.

Power Equipment and Accessories

BAT604 3.0 V Battery



Duracell® DLI23A lithium battery (1.4 Ah rated) use in FA202, FA206I, FA206DS, FA210, FA216 and FA250.

BAT605 3.6 V Battery



Tadiran® TL2150 lithium battery (0.8 Ah rated) used only in the FA206.

BAT607 3.0 V Battery



Customized lithium battery (0.8 Ah rated) used in FA204. Due to differences in metallurgy and electrical characteristics, it is the only battery available for the FA204 pendant.

BAT608 3.0 V Battery



CR2 lithium battery (0.8 Ah rated) for FA203, FA205, FA113, and FA212.

BAT609 3.0 V Battery



Renata® CR2450N lithium coin cell battery (0.5 Ah rated) for FA209 and FA223S.

D113 Battery Lead Supervision Module



Supervises wiring connections for two 12 V batteries connected to the same set of charging terminals.

D122 Dual Battery Harness



Color-coded wire harness with circuit breaker to protect charging circuit when connecting multiple 12 V batteries to a control panel.

D126 12 V, 7 Ah Battery



A fully rechargeable 12 V sealed lead-acid battery.

D940 Super Loop Module



Converts eight points to eight super loops. Increases voltage and current on the circuit. This module is used for retrofit applications to increase the voltage and current on a point.

D1218 12 V, 18.0 Ah Standby Battery



A fully rechargeable 12 V sealed lead-acid battery.

D1224 12 V, 24 Ah Standby Battery



A fully rechargeable 12 VDC sealed lead-acid battery. Acts as an auxiliary power source for accessory modules.

D1238 12 V, 38 Ah Standby Battery



A fully rechargeable 12 VDC sealed lead-acid battery. Acts as an auxiliary power source for accessory modules.

D1240 12 V, 4 Ah Standby Battery



A fully rechargeable 12 VDC sealed lead-acid battery. Acts as an auxiliary power source for accessory modules.

D1640 Transformer



System transformer rated at 16.5 VAC, 40 VA.

D8132 Battery Charger Module



Charges up to a maximum of 27 Ah of batteries.

Enclosures, Brackets, and Connectors

ACC605-BK Belt Clip for FA205 Transmitter



Includes two screws for connecting to the FA205 transmitter.

ACC620 Programming Cable



For connecting transmitter to programming device and programming transmitters. A programming cable is provided with every programming device.

ACC624 Holster



Black leather holster for the FA204 pendant. Includes heavy-duty metal clip for attaching to belt.

ACC603 Neckcords for FA203 Pendant



Neckcords of assorted materials for use with the FA203 pendant.
ACC603L: simulated leather, ACC603M: metal (pictured), ACC603P: plastic

ACC630 Transfer Programmer



A timer saver that allows users to reprogram any transmitter at an installation without moving it. A "Start" button and LEDs guide users through the steps.

D57 Single Gang Conduit Surface Mount



Surface mount box use for installations requiring a conduit to the D269 Independent Point Control or D8227 Insert Card Reader. Dimensions (H x W x D): 103 mm x 78 mm x 57 mm (4.05 in. x 3.06 in. x 2.25 in.).

D101 Lock and Key Set



Optional lock and key set for use with the D2203 standard enclosure and the D8103 optional enclosure.

D110 Tamper Switch



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

D137 Mounting Bracket



Used to mount accessory modules in D8103, D8108A, D8109, and D8109L enclosures.

D138 Mounting Bracket, Right Angle



Used to mount accessory modules in a D9101 enclosure.

D161/D162 Dual Modular Phone Cord



D161: 2.1 m (7 ft.)
D162: 61 cm (2 ft.)

D8103 Enclosure



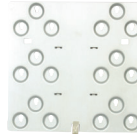
Steel enclosure measuring (H x W x D) 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

D8108A Attack Resistant Enclosure



1.2 mm (18-gauge) grey, cold-rolled steel enclosure measuring (H x W x D) 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). UL Listed for Central Station Fire, Local Fire, and Remote Station Fire applications. Lock and key set included. Requires use of D2402 Mounting Plate.

D9002-5 Accessory Module 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.

■ Software Options

Note: XXXX represents the version number of the software. Order Processing has the latest revision information.

D5500C-XXXX Remote Programming Software for Windows (RPS)

Software package allows computers equipped with Windows and a modem to act as a remote programming, record storage, remote control and troubleshooting tool for specific control panels. Currently supports control panels including: D7212B1, D9112B1, 9000 Series, G Series, D8112E, D8112E1, D8112G, D8112G1, D8112G2, D8112A, D4412, D6412, D2012, D2112, D2212, D7024. Check with Customer Service for an updated list of supported products. It is delivered on CD. Includes the software, the license disk, the D5370 RPS Security Block and the L55-XXXX RPS literature binder (the D5370 and L55 can be ordered separately). Refer to the RPS datasheet for details (48307).

D5500C-XXXX-LTE Remote Programming Software Lite for Windows (RPS Lite)

Account management and panel-programming software package for the Microsoft Windows operating system. Designed to remotely or locally set-up and program specific control panels, including the G Series. It is delivered on CD. Includes the software, the license disk, the D5371 RPS Security Block, and the L56-XXXX RPS literature binder (the D5371 and the L56 can be ordered separately). Refer to the RPS Lite datasheet for details (48333).

D7212G Package

Prod. ID	D7212G
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■ Scope of Supply of Basic Version

The D7212G Control Panel provides an integrated solution for Security and Fire Alarm system applications. It is capable of monitoring alarm points for intruder or fire alarms while operating user command centers and other outputs. Each control panel includes a built-in digital communicator that reports events to selected destinations via four programmable route groups. The D7212G package includes:

- one D7212G board
- one mounting skirt
- one faceplate with D7212G label

D7212GK1 Kit

Prod. ID	D7212GK1
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■ Components

The D7212GK1 Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1255 Alpha Command Center (off-white), and
- two DS835i PIR Detectors

D7212GK1W Kit

Prod. ID	D7212GK1W
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■ Components

The D7212GK1W Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1255W Alpha Command Center (white), and
- two DS835i PIR Detectors

D7212GK2 Kit

Prod. ID	D7212GK2
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■ Components

The D7212GK2 Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1260 ATM Keypad, and
- two DS835i PIR Detectors

D7212GK3 Kit

Prod. ID	D7212GK3
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■ Components

The D7212GK3 Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1255 Alpha Command Center (off-white),
- one D8125 POPEX Zone Expander, and
- ten D9127U POPIT Modules

D7212GK3W Kit

Prod. ID	D7212GK3W
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■ Components

The D7212GK3W Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1255W Alpha Command Center (white),
- one D8125 POPEX Zone Expander, and
- ten D9127U POPIT Modules

D7212GK4 Kit

Prod. ID	D7212GK4
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■ Components

The D7212GK4 Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1260 ATM Keypad,
- one D8125 POPEX Zone Expander, and
- ten D9127U POPIT Modules

D7212GK5 Kit

Prod. ID	D7212GK5
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■ Components

The D7212GK5 Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1255 Alpha Command Center (off-white), and
- one D9133TTL-E SDI-Ethernet Interface Module

D7212GK5W Kit

Prod. ID	D7212GK5W
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■ Components

The D7212GK5W Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1255W Alpha Command Center (white), and
- one D9133TTL-E SDI-Ethernet Interface Module

D7212GK6 Kit

Prod. ID	D7212GK6
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■ Components

The D7212GK6 Kit includes:

- one D7212G board,
- one D1640 Transformer,
- one D8103 Universal Enclosure with D101 Lock and Key Set,
- one D1260 ATM Keypad, and
- one D9133TTL-E SDI-Ethernet Interface Module