



D2212B Control Panel



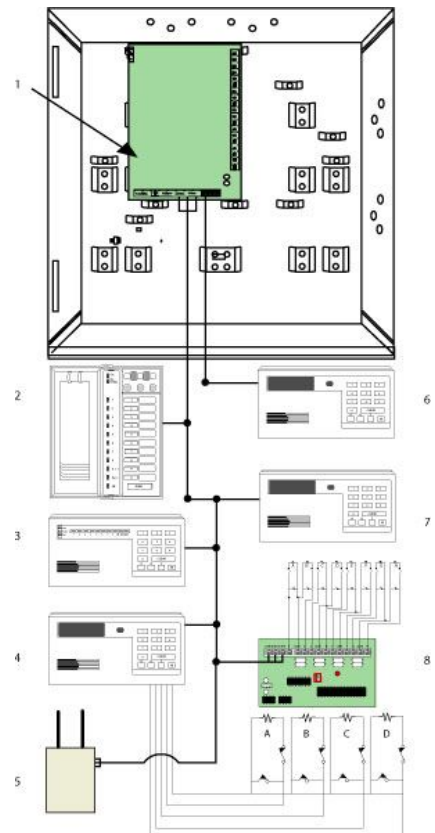
- ▶ Eight on-board points
- ▶ Up to 24 wired or wireless points
- ▶ Eight users and passcodes with three authority levels
- ▶ Two programmable on-board relay outputs (optional relays required)
- ▶ Alarm memory, two programmable telephone numbers, and flexible routing for event reporting
- ▶ Exit momentarily without turning the entire system off
- ▶ Passcodes for service personnel
- ▶ Text keypads that are easy to use and understand
- ▶ Remote programming with Remote Programming Software (RPS); local programming with keypads or programmers

The 2000 Series D2212B Control Panel collects information from door, window, motion and other sensors located in your office, and communicates unusual activity to a monitoring station. At the monitoring station, professionals can alert the police, fire department, or other emergency response teams if necessary.

The D2212B Control Panel supports wireless motion detectors, contacts and keypads. Wireless devices save money on installation costs by eliminating the need to run wiring to each device. Use a wireless keypad to turn your system on or off from outside the protected premises. Use a wireless key fob to turn the system on or off, send a panic report, open a door, or turn on a light.

The D2212B Control Panel supports one-time passcodes for single-entry visitors such as maintenance workers or other service personnel. Use up to eight different passcodes for regular employees or frequent guests.

System Overview



1. D2212B Control Panel
2. D202A Series LED Keypad
3. D220A Series LED Keypad
4. D222A Series LCD Keypad
5. D208RF or D216RF Receiver Expander
6. 200 Series Keypad
Use the D222A, D222AW, D223A, or D223AW LCD Keypads for local programming.
7. D223A Series LCD Keypad
8. D208 Hard-wire Expander

Functions

Points

The D2212B Control Panel has eight on-board points. It can expand to 24 points using any combination of hard-wired points and wireless devices. Use any combination of the following expanders (four maximum):

- D208 Hardwire Expander supports up to eight hard-wired points.
- D222A/D222AW Keypad supports up to four hard-wired points.
- D208RF Receiver Expander supports up to eight wireless devices.
- D216RF Receiver Expander supports up to 16 wireless devices.

Step Outside

Press the Clear button to temporarily disarm a door when you need open it to receive a delivery or step outside for a moment. Close the door and press the Clear button again to arm it.

Local or Remote Programming

Use keypads for local programming and use RPS for remote programming. Use a portable programmer device to locally download programs. An installer's keypad feature allows quick access to the programming menu. RPS is an account management and control panel-programming utility for the Microsoft® Windows® operating system. It is designed to remotely or locally set up and program specific control panels.

Report Routing Destinations

The 2212B Control Panel communicates over two telephone numbers for reporting events. The telephone numbers can have up to 19 digits. You can organize the events into 11 report groups and designate a telephone number as the primary or secondary destination to send reports for different types of events to different locations.

Communications Format

The Modem IIIa² communications format adds reporting capabilities such as actual point number, actual user number, bypassed points, and opening or closing reports by up to eight users.

Multiple Users and Passcodes

The D2212B Control Panel supports up to eight users and passcodes. The passcode can range between three to six digits. Assign passcodes one of three authority levels to control the amount of access each user has to system functions.

Outputs

Two programmable on-board relay outputs allow up to 24 preprogrammed output functions.

Certifications and Approvals

UL Standards	UL365, Police Station Connected Burglar Alarm Units and Systems UL464, Audible Signal Appliances UL609, Local Burglar Alarm Units and 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	CSFM

Installation/Configuration Notes

Wiring Considerations

- Use a minimum of 1.5 m of 0.8 mm wire (5 ft of 22 AWG) when connecting devices (including keypads) mounted outside the enclosure.
- The maximum combined wire length for all devices connected to the Data and +Aux terminals is 152 m of 0.8 mm wire (500 ft of 22 AWG).

Fire and Fire/Burglary Requirements

Fire installations require a D132A Polarity Reversing Module or a D192C Notification Appliance Circuit Module. The alarm output for Fire or combined Fire/Burglary installations must be supervised. This can be accomplished using a D132A Polarity Reversing Module and compatible smoke detectors or using D192C Notification Appliance Circuit Module.

Compatible Products

Keypads	D202A Series Keypads (D202A and D202AW) D220A Series Keypads (D220A and D220AW) D222A Series Keypads (D222A and D222AW) D223A Series Keypads (D223A and D223AW)
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Keypads	D202A Series Keypads (D202A and D202AW) D279A Independent Zone Control	Keypads	D202A Series Keypads (D202A and D202AW) Learn Mode Wireless Glass Guard Sensor (Brown) 60-462-11-319.5 Learn Mode Shock Sensors (White) 60-886-95 Learn Mode Shock Sensors (Brown) 60-886-11-95 Learn Mode Four-button Keychain Touchpad 60-606-319.5 Learn Mode Two-button Keychain Touchpad 60-607-319.5 Learn Mode Single Button Panic Sensor 60-458-10-319.5 Learn Mode Two-button Panic Sensor 60-457-10-319.5 Learn Mode Pendant Panic Sensor 60-452-10-319.5 Learn Mode Water Resistant Pendant Panic Sensor 60-578-10-95 Learn Mode Fire Pull Station 60-589-319.5
Detectors	OD850 Series Outdoor TriTech Detectors Bosch conventional detectors include Blue Line, seismic, PIR, TriTech PIR Microwave, photoelectric, request-to-exit, and heat, and smoke.		
Magnetic Contacts	All Bosch magnetic contacts, including recessed, terminal connection, miniature, overhead door, and surface mount.		
Modules	C900V2 Dialer Capture Module D127 Reversing Relay D132A Polarity Reversing Module D133 Single Relay Module D134 Dual Relay Module D135A Low Battery Cutoff Module D168A Remote Telephone Arming Module D169 Two-way Voice Verification Module D192C Notification Appliance Circuit Module D208 Hardwire Expander		
Peripheral Hardware	rvm4c Remote Video Module		
Programming	D5200 Programmer		
SAFECOM Radio Communicators	SC2104 Series Slave Communicators SC3100 Series Data Transfer Radio Communicators SC4000 Series Full Data Transfer Radio Communicator		
Wireless Products	RF3226 Quik Bridge Receiver Quik Bridge Learn Mode Loop Receiver 60-660-01-95R D208RF Receiver Expander D216RF Receiver Expander Quik Bridge Learn Mode Repeater 60-615-10-319.5 Learn Mode Freeze Sensor 60-504-10-319.5 Learn Mode Wireless Heat Sensor (Alkaline Battery) 60-460-319.5 Learn Mode Wireless Heat Sensor (Lithium Battery) 60-460-319.5-LB Learn Mode Wireless Smoke Sensor (Alkaline Batteries) 60-506-319.5 Learn Mode Wireless Smoke Sensor (Lithium Batteries) 60-506-319.5-LB Wireless PIR Detector 60-511-01-95 Wireless PIR Detector with Pet Immunity 60-511-02-95 Learn Mode Single Technology Sound Sensor 60-459-319.5 Learn Mode Dual Technology Sound Sensor 60-834-95 Learn Mode Wireless Glass Guard Sensor (White) 60-462-10-319.5		

Parts Included

D2212B Components	Quantity
D2212B Board	1
D2203 Enclosure	1
D1640 Transformer	1

Technical Specifications

Communication

Telephone Interface: RJ31X or RJ38X with D164 phone cord

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...

Keypads: 8

Points:

- 8 on-board
- 2 unsupervised
- Expandable to 24

Power Outputs

Alarm Power: 1.35 A maximum at 10.2 VDC to 13.9 VDC output. Output may be steady or pulsed depending on programming.

Auxiliary Power: 1.0 A maximum at 10.2 VDC to 13.9 VDC for devices powered at the Aux⁺ terminal (140 mA for Fire and combined Fire/Burglary systems).

Continuous Power: To comply with UL985 and UL864 for fire alarm applications, continuous power output is limited to 140 mA.

Total Power: To comply with UL985 and UL864 for fire alarm applications, the total combined continuous and alarm current draw for the system during alarm conditions must be limited to 860 mA provided by the primary power supply (rectified AC).

Power Requirements

Operating Voltage: 16.5 VDC

Primary Voltage Input: 16.5 VAC, 40 VA provided by a Class 2, plug-in transformer (D1640)

Secondary Voltage Input: 12VDC, 7 Ah sealed lead-acid rechargeable battery

Trademarks

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D2212B Kit Ordering Information

Components	Kits						
	D2212BLC	D2212BLT	D2212BM	D2212BC202A	D2212BC202AW	D2212BC220A	D2212BC220AW
D2212B Board	1	1	1	1	1	1	1
Universal Enclosure		1		1	1	1	1
D2402 Mounting Skirt			1				
D1640 Transformer				1	1	1	1
D202A Keypad				1			
D202AW Keypad					1		
D220A Keypad						1	
D220AW Keypad							1

Components	Kits			
	D2212BC222A	D2212BC222AW	D2212BC223A	D2212BC223AW
D2212B Board	1	1	1	1
Universal Enclosure	1	1	1	1
D1640 Transformer	1	1	1	1
D222A Keypad	1			
D222AW Keypad		1		
D223A Keypad			1	
D223AW Keypad				1

Ordering Information		Ordering Information	
D2212B Control Panel Includes one printed circuit board (PCB), one transformer, assorted literature, and assorted hardware.	D2212B	D166 Telephone Jack Standard Telco RJ31X Telephone Jack measuring approximately 5 cm (2 in.) square by 2.5 cm (1 in.) high.	D166
D2212B Kit without Enclosure Includes one PCB and assorted hardware. Requires an enclosure.	D2212BLC	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
D2212B Kit without Transformer Includes on PCB, one universal enclosure, and assorted hardware. Requires a transformer.	D2212BLT	D1640 Transformer System transformer rated at 16.5 VAC, 40 VA.	D1640
D2212B Kit with Mounting Skirt Includes one PCB, one mounting skirt, assorted literature, and assorted hardware.	D2212BM	D2203 Enclosure Grey steel enclosure measuring 37 cm x 34 cm x 8.9 cm (14.6 in. x 13.4 in. x 3.5 in.). Includes a lock and accepts an optional tamper switch.	D2203
D2212B Kit with Vertical LED Keypad Includes one PCB, one enclosure, one transformer, and one vertical D202A LED Keypad.	D2212BC202A	D2402 Mounting Plate Required for mounting control panels in D8103, D8108A, or D8109 enclosures.	D2402
D2212B Kit with Vertical LED Keypad Includes one PCB, one enclosure, one transformer, and one vertical D202AW LED Keypad.	D2212BC202AW	D8103 Enclosure Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).	D8103
D2212B Kit with LED Keypad Includes one PCB, one enclosure, one transformer, and one LED D220A Keypad.	D2212BC220A	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
D2212B Kit with LED Keypad Includes one PCB, one enclosure, one transformer, and one D220AW LED Keypad.	D2212BC220AW	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
D2212B Kit with LCD Keypad Includes one PCB, one enclosure, one transformer, and one D222A LCD Keypad.	D2212BC222A	D1625 Transformer A 16 VAC, 25 VA transformer required to power the D2212B and D2212BE Control Panels.	D1625
D2212B Kit with LCD Keypad Includes one PCB, one enclosure, one transformer, and one D222AW LCD Keypad.	D2212BC222AW	D2803 Enclosure Grey steel enclosure measuring 25.4 cm x 22.8 cm x 7 cm (10 in. x 9 in. x 2.8 in.)	D2803
D2212B Kit with LCD Keypad Includes one PCB, one enclosure, one transformer, and one D223A LCD Keypad.	D2212BC223A	Software Options	
D2212B Kit with LCD Keypad Includes one PCB, one enclosure, one transformer, and one D223AW LCD Keypad.	D2212BC223AW	RPS Kit (LPT) Account management and control panel-programming software with LPT connection.	D5500C-LPT
Accessories		RPS Kit (USB) Account management and control panel-programming software with USB connection.	D5500C-USB
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		
D126 Standby Battery (12 V, 7 Ah) Sealed lead-acid standby and auxiliary rechargeable power supply.	D126		
D160 Telephone Cord A 2 m (7 ft) telephone cord with standard plug on one end.	D160		

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