



Easy Series Control Panel

ICP-EZM2



BOSCH

en Quick Installation Guide

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1 Install the Enclosure

Refer to *Figure 1.1* for the suggested placement of system components in the enclosure.



Notice!

Use proper anchor and screw sets when installing the enclosure on non-load-bearing surfaces, such as drywall.

Follow anti-static procedures when handling the control panel board. Touch the earth ground terminal on the control panel board to discharge any static charge before working on the control panel board.

If you install more than one control center, mount them at least 1.2 m apart.

Do not install the RADION receiver within 15 cm (6 in) of the control centers metal enclosure.

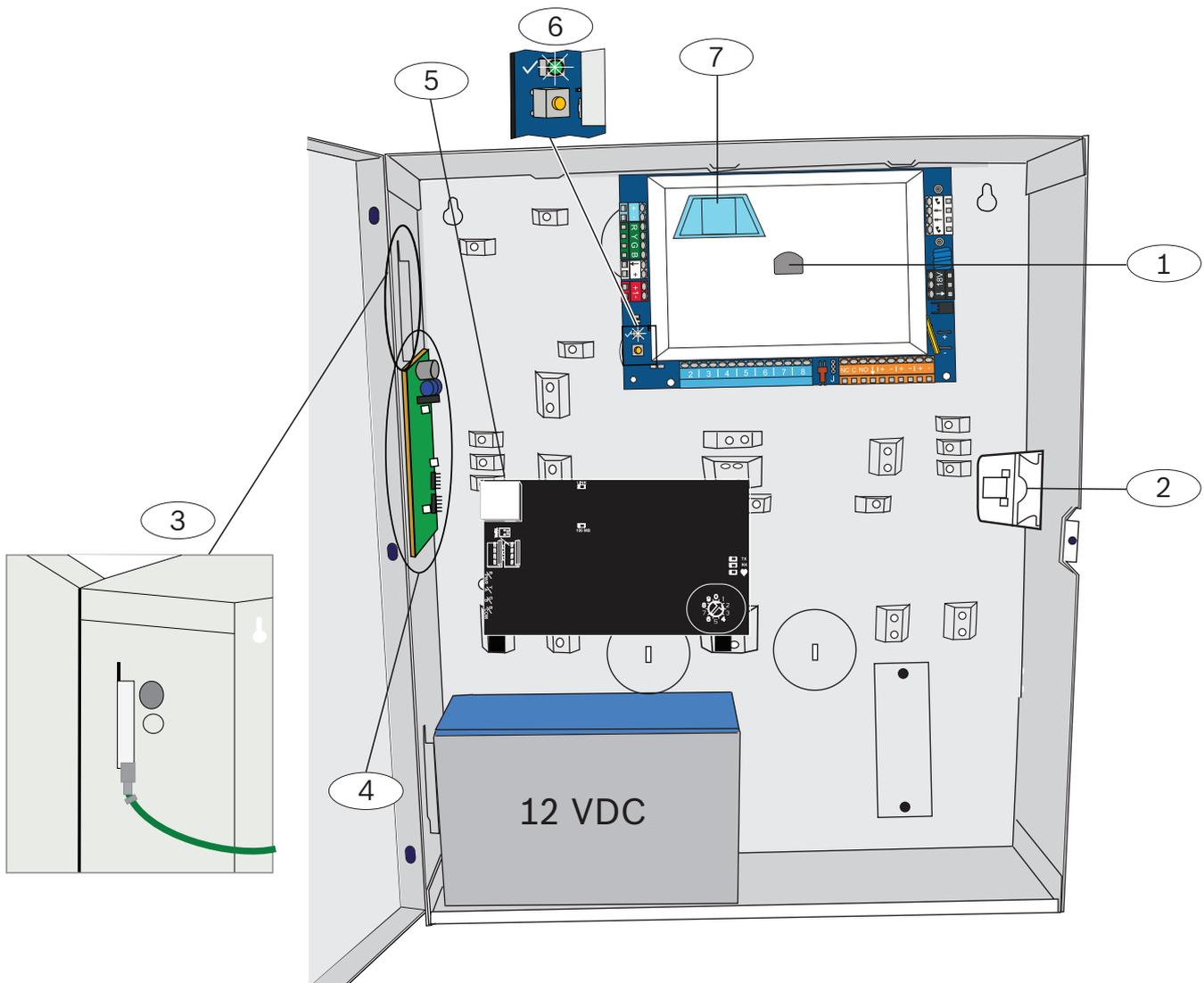


Figure 1.1: System component placement in enclosure

Callout	Description
1	Port for ICP-EZPK programming key and ICP-EZRU2-V3 Update Key
2	ICP-EZTS Cover and Wall Tamper Switch

Callout	Description
3	Ground connection Connect ground wire from enclosure to enclosure door.
4	Module mounting location
5	Module mounting location
6	Status LED (√) System Test Button (→)
7	Port for ICP-EZV2 Voice Module

2 Wire the Control Panel

Refer to *Figure 2.1* for an overview of the system components and wiring.

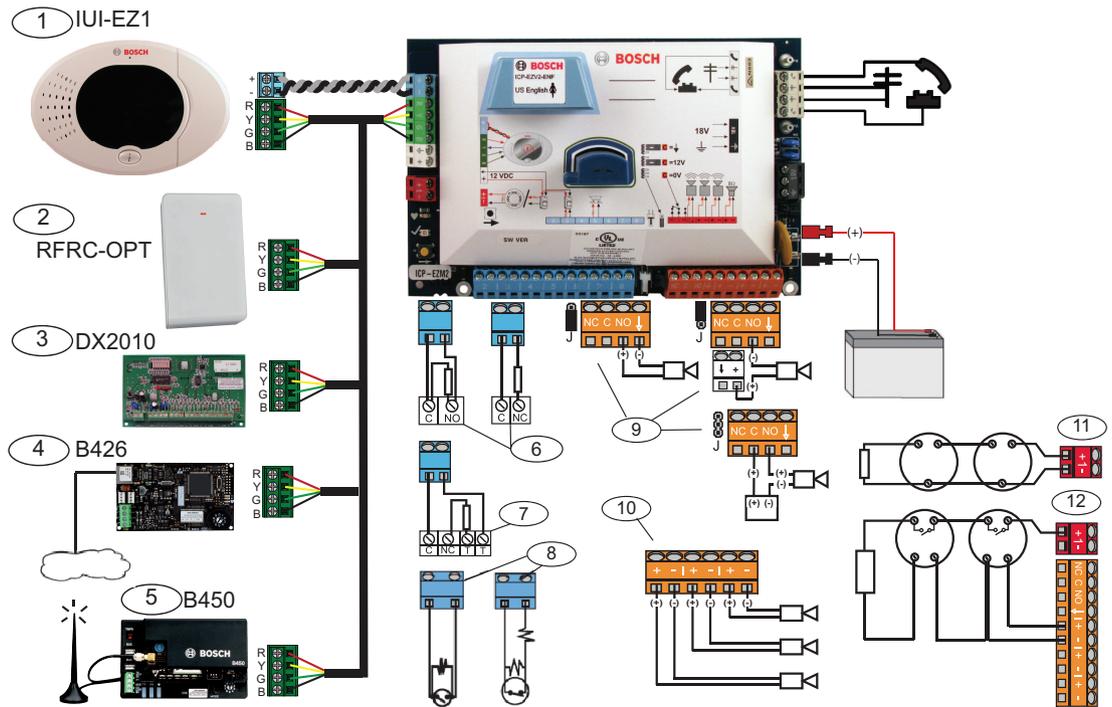
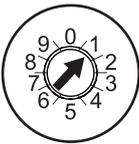
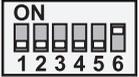
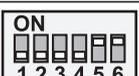
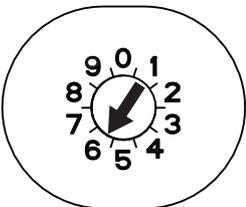
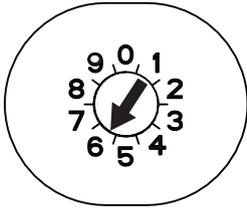


Figure 2.1: Wiring diagram

Callout	Description		
1	Control Center		Mount within 3 m of control panel, Use CAT5 cable (twisted pair) for audio bus, Set data bus address (1 - 4), up to 4 controls max
2	RADION receiver		1 = Normal Operation 5 = Maintenance Mode
3	DX2010 Point Expander		Data bus Adr 102: Points 9-16
			Data bus Adr 103: Points 17-24
			Data Bus Adr 104: Points 25-32
4	B426 Network Interface Module		Use address 6.

Callout	Description			
5	B450 Conettix Plug-in Communicator		Use address 6.	
6	Supervised Points (single EOL)	Normally open and normally closed options (2.2k Ω)		
7	Supervised Points (dual EOL)	Normally closed (2.2k Ω)		
8	Keyswitch Options (single and dual EOL) ((2.2k Ω)			
9	Prog Output (PO) 1 Options	Switched 12v	Switched Ground	Dry Contact
				
10	Prog Outputs 2 - 4	NF A2P requires that sirens have a backup battery. When this siren requires a 14,1V to 14,4V supply, use the optional board EZPS-FRA or the auxiliary power supply IPP-PSU-2A5. Set the output as interior burglary alarm.		
11	2-wire Smoke Detector Option	EOL resistor (P/N: 25899) required.		
12	4-wire Smoke Detector Option	EOL resistor (P/N: 25899) and Bosch EOL relay module required		
Note: The system uses a 12 VDC battery, connected as shown.				

If using RADION devices:

1. Mount the bases for the wireless devices in the desired locations.
Do not attach the wireless devices to the bases at this time.
2. Remove all power from the system.
3. Set the switch on the RADION receiver to normal operating mode = 1.
4. Reapply system power.
Wait for the solid green circle to appear on the control center.
5. Enter the Installer Telephone Menu. Refer to *Configuring with the telephone, page 8*.

3 Configure the System

Configure the system using one of the methods described in this section for your control panel type.

3.1 Configuring with the telephone

Refer to *Installer Telephone Menu, page 12* for the complete programming menu.

Basic Programming:

1. Enter the Installer passcode (default: 4-digit 5432, 6-digit 543211).
2. Press [3] to enter the Basic Programming menu to make the following changes:
 - Modify point types [1][2].
 - Record point descriptions [1][1].
 - Enter an account number [2][1].
3. Press [#][#][#] to exit Basic Programming.
4. Press [1] to enter System Maintenance to configure wireless devices.
5. Select Wireless Configuration [6] from the System Maintenance menu.
6. After the system prompt, enter the point number (1 to 32) that you want to configure. The control panel announces the point number and the point type.

If the point number is not currently assigned to a Wireless ID:

To set Point Type, press [1].

To add a device, press [2].

Press [#] to exit.

If the point number is currently assigned to a Wireless ID:

To set Point Type press [1].

To replace a device, press [3]

To delete this device, press [4].

Press [#] to exit.

1. Press [#][#] to exit to the main menu.
2. Press [2] to enter the User Menu to change the installer passcode.
3. Press [1] and change the Installer Passcode.
4. Press [#][#] to exit the User Menu.

3.2 Configuring with RPS

In addition to the Installer Phone Menu, you may use RPS to configure an Easy Series control panel with RADION support. To configure RADION wireless points, specify the following information for each point:

- Device Type
- Point Type
- Wireless Point ID
- Wireless Alarm Inputs

Since Wireless Alarm Inputs is only available in “Expert Mode”, you must use Expert Mode to properly configure the Easy Series control panel for RADION wireless devices.

The following table shows the correlation between the current RPS Device Type values and the RADION Device Types.

1. Once the device type has been selected in RPS, enter the Wireless Point ID and Point Type via the “wizard” dialog.
2. Enter the RFID for the point as specified in the product packaging.

3. Select the desired Point Type from the drop-down menu.
4. Enter an appropriate value in the Wireless Alarm Inputs column.

When setting up an Easy Series control panel to use RADION transmitters, only select from the RPS device types listed in the table below.

RPS device type	RADION transmitter	Wireless alarm inputs
PIR motion detector	PIR detector (RFPR-12) PIR curtain detector (RFPR-C12)	Motion
Dual motion detector	Motion detector (RFDL-11)	Motion
Wireless device type 3	Repeater (RFRP)	None
Smoke detector	Smoke detector (RFSM)	Smoke
Door Window contact sensor	Universal transmitter (RFUN)	Wired or magnet
Glass break sensor	Glassbreak detector (RFGB)	Glass break
Wireless Recessed Point	Recessed door/window contact (RFDW-RM)	Magnet
Wireless Bill Clip	Bill trap (RFBT)	Magnet
Mini-Door-Window contact	Door/window contact (RFDW-SM)	Magnetic



Notice!

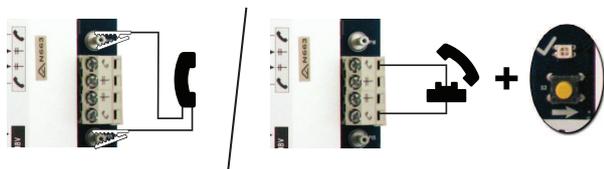
Do not use any other RPS device types when specifying RADION transmitter configurations.

The columns labeled “Wireless Sensor Sensitivity” and “External Power Input” have no effect on the Radion Wireless Receiver/Transmitter configuration. These fields are not used by the Easy Panel Radion configuration.

4 Add/Change Users

Enter the User Telephone Menu

1. Connect to the phone test posts or use the house phone.



2. Hold down the test button for 10 seconds.
3. Enter the Master Passcode default 1234(55).

4.1 Add users

Add Users

1. Enter the User Telephone menu.
 2. Enter the Master User (User 1) passcode
 3. Press [4] to enter the user menu.
 4. Press [1] to add a new user
 5. Repeat step 4 for additional users.
- Press [#] to return to the User Menu, or [#][#][#] to exit completely.

4.2 Change users

Change Users

1. Enter the User Telephone Menu.
2. Enter the Master User (User 1) passcode.
3. Press [4] to enter the User Menu.
4. Press [2] to change a user. Press [2] repeatedly until the system speaks the desired user number.
5. Repeat Step 4 in Add Users.
6. Press [#] to return to the User Menu, or [#][#][#] to exit completely.

5 System Test and Maintenance

Test the system for proper operation when installation and configuration are complete.

- ▶ Press the System Test button on the control panel board for one sec. The system provides instructions throughout the test. Follow all instructions.
- ▶ Contact the central monitoring station (CMS) to verify that all necessary test reports were received, including test reports from all installed input and output devices.

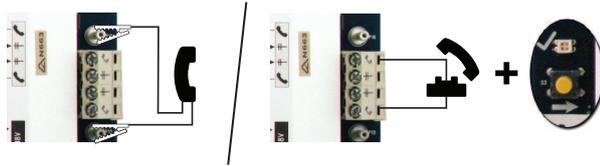


Notice!

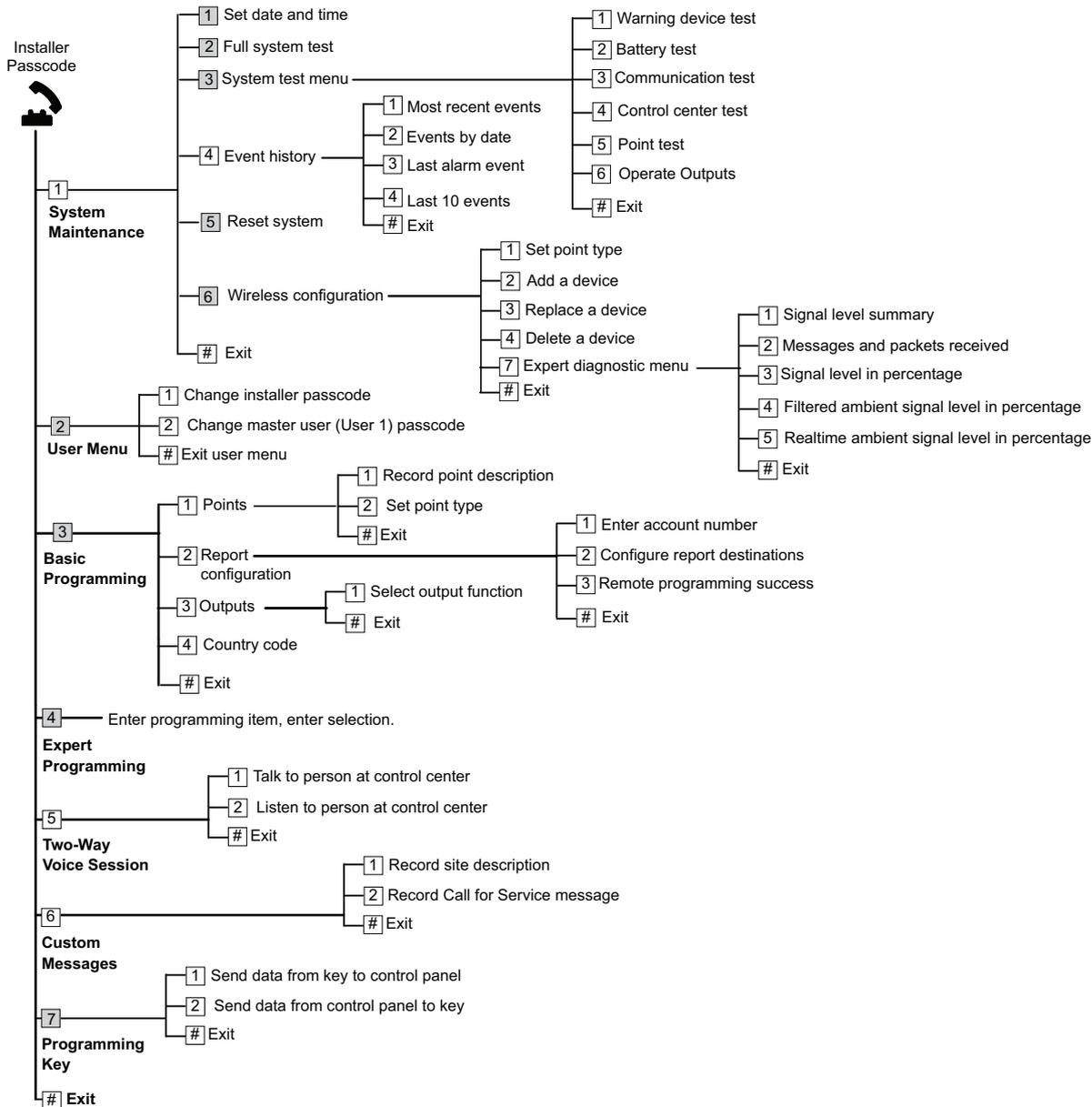
After system installation and any control panel programming, perform a complete system test. A complete system test includes testing the control panel, all devices, and communication destinations for proper operation.

6 Installer Telephone Menu

1. Connect to the phone test posts or use the house phone.



2. Hold down the test button for 10 seconds.
3. Enter the Master Passcode default 1234(55).



7

7.1 Appendix Expert Programming

System Programming Items		
Item No.	Programming Item	Range
102	Country Code	00 to 99(see <i>Country Codes, page 23</i>)
103	Enclosure Tamper Enabled	0 = Disabled 1 = Enabled
107	Fire Bell Cut-Off Time	0 to 90 min
108	Intrusion Bell Cut-Off Time	0 to 90 min
110	Intrusion Abort Window	15 to 45 sec
111	Fire Alarm Cancel Window	0 to disable, 1-10 min
112	Intrusion Cancel Window	5 to 10 min
114	Chime Tone Select	1, 2, or 3
115	Chime Mode Operation After System Off	0 = Off 1 = On 2 = Follows previous setting
116	Automatic Test Frequency Report	0 = Off 1 = Daily 2 = Weekly 3 = Monthly
119	EN50131 Level 4 Access Code	6-digit numerical passcode (0-9)
121	Daylight Saving Time	0 = Off 1 = North America (pre 2007) 2 = Europe & Asia 3 = Tasmania, Australia 4 = Rest of Australia 5 = New Zealand 6 = Cuba 7 = South America & Antarctica 8 = USA (post 2006)
122	Installer Passcode Override	0 = Disabled 1 = Enabled

System Programming Items		
Item No.	Programming Item	Range
124	Point Alarm Verification	0 = Off 1 = Cross Zone 2 = Intelligent Threat Assessment 3 = Confirmed Alarms 1 (initial entry door) 4 = Confirmed Alarms 1 (token, key fob, or keyswitch)
125	Faulted Points Allowed Threshold	0 to 8
126	Exit Delay	0 to 255 sec
127	Entry Delay	0 to 255 sec
129	Recent Close Enabled	0 = Report not sent 1 = Report sent
131	Swinger Bypass Count	0 to disable, 1-15
133	System On Order Options	1 to 6
134	Cross Zone Timer	0 to 3600 sec
136	Clear Alarm Memory	0 = By any user 1 = By master user only
140	Demo Mode	0 = The system only speaks all telephone messages over the phone. 1 = The system speaks all telephone messages over the phone and at all control centers connected to the system. 2 = During telephone programming, press the [i] button to turn message announcements on or off at the control center.
142	Restrict Installer Passcode	0 = Master user not needed 1 = Master user needed
151	Wireless Device Supervision Interval	1= 1 Hour 2= 2 Hours 3= 4 Hours 4= 12 Hours 5= 24Hours 6= 2.5 Hours
162	Missing Wireless Device Conditions	0 = Missing conditions create a tamper condition (meets EN50131). 1 = Missing conditions create a trouble condition.

System Programming Items		
Item No.	Programming Item	Range
163	Silence Trouble Tones	0 = All trouble tones beep at the control center. 1 = Only Fire and 24-Hour trouble tones beep at the control center.
164	System Inactivity Time (Hours)	Enter the number of hours (0-255) that the system must be off before it sends the System Inactive report.
165	System Inactivity Time (Days)	Enter the number of days (0-255) that the system must be off before it sends the System Inactive report.
166	System Inactivity Time (Weeks)	Enter the number of weeks (0-255) that the system must be off before it sends the System Inactive report.
167	Force Arm/Exit Error	0 = Off-normal points create an exit error at the end of Exit Delay 1 = Off-normal points are force-armed at the end of Exit Delay
168	Audio Verification Command Set	0 = Use SIA Standard Audio Verification commands (AV-01-1997.11) 1 = Use alternate audio verification command set
601	Enable Keyfob Duress	0 = Wireless keyfob does not send a Duress event 1 = Wireless keyfob sends a Duress event

Audio Verification Commands

SIA Standard Audio Verification Commands (Item No. 168 = 0)	
Phone Button	Command
[1]	Talk to premises.
[3]	Listen to premises.
[6]	Listen to premises.
[7]	Restart 90-second timer.
[9][8]	Terminate session with call back.
[9][9]	Terminate session without call back.
[0]	Listen to all microphones.
[#]	Cancel first digit of command.

SIA Standard Audio Verification Commands (Item No. 168 = 0)	
Phone Button	Command
Alternate Audio Verification Commands (Item No. 168 = 1)	
Phone Button	Command
[#]	Talk to premises.
[*]	Listen to premises.
[7] (any number 1 to 9)	Restart 90-second timer.
[0]	Terminate session without call back.

Route Destination Items		
Item No.	Programming Item	Range
100	Account Number	4- or 6-digit number
201	Phone Line Supervision	0 = On 1 = Off
202	PSTN, IP or Cellular Connection	0 = PSTN telephone line 1 = B426, B450
205	Dial Tone Detect	0 = On 1 = Off
Phone Number/IP Address for Route Destination:		
206	Route 1 Primary	32 digits maximum 0-9, B-F allowed. . = [*] (. between each IP address notation). Exit with save = [#] Exit without save = [#][#] Disable phone number = [0][#] Disable IP address = 240.0.0.0
207	Route 1 Backup	
208	Route 2 Primary	
209	Route 2 Backup	
210	SMS Service Provider No.	
Format for Route Destination:		
211	Route 1 Primary	0 = Disabled 1 = Contact ID 2 = SIA 3 = Voice 4 = SMS 5 = Fast Format 6 = Network
212	Route 1 Backup	
213	Route 2 Primary	
214	Route 2 Backup	
215	Call Waiting Disable	3 or 4 digits * = [*][*]; # = [*][#]
216	Emergency Call Override No.	3-digit number

Route Destination Items		
Item No.	Programming Item	Range
217	Emergency Call Override No. Delay	0 to 60 min
218	Auto Detect Pulse Dial	0 = Tone dialing 1 = Pulse dialing
222	Phone Answer Ring Count	1 to 255 rings

Alternate Communication Items		
Item No.	Programming Item	Range
Port Number for Route Destination:		
241	Route 1 Primary	0 to 65535
242	Route 1 Backup	
243	Route 2 Primary	
244	Route 2 Backup	
Heartbeat for Route Destination:		
281	Route 1 Primary	0 = Disabled; 1 to 65535 min
282	Route 1 Backup	
283	Route 2 Primary	
284	Route 2 Backup	
Acknowledge Wait Time for Destination:		
285	Route 1 Primary	5 to 255 sec
286	Route 1 Backup	
287	Route 2 Primary	
288	Route 2 Backup	
Anti-Replay for Route Destination:		
289	Route 1 Primary	0 = Disabled; 1 = Enabled
290	Route 1 Backup	
291	Route 2 Primary	
292	Route 2 Backup	
Heartbeat Attempt for Route Destination:		

Alternate Communication Items		
Item No.	Programming Item	Range
293	Route 1 Primary	1 to 99
294	Route 1 Backup	
295	Route 2 Primary	
296	Route 2 Backup	
297	Extend Heartbeat Period	0 = Disabled; 1 to 255 min

RPS Configuration Items		
Item No.	Programming Item	Range
118	RPS Passcode	6 digits required, using 0 to 9 and A to F.
224	RPS Automatic Call In Frequency	0 = Never; 1 = Daily 2 = Weekly; 3 = Monthly
225	RPS Automatic Call In Time (Hours)	0 to 23
226	RPS Automatic Call in Time (Minutes)	0 to 23
227	RPS Automatic Call in Time (Day of Week)	0 to 6, where 0 = Sunday and 6 = Saturday
228	RPS Automatic Call in Time (Day of Month)	1 to 28
229	RPS Automatic Call in Phone Number/IP Address	Refer to Item Numbers 206-209 for allowed entries.
245	RPS Automatic Call in Method	0 = Phone number; 1 = IP address
246	RPS Port Number	0 to 655353

Point Report and Restoral Routing			
Item No.	Programming Item	Item No.	Programming Item
301	Point Reports and Restorals(all)	326	Intrusion Zone Bypass
307	Intrusion Alarm	327	Intrusion Zone Bypass Restoral
308	Intrusion Alarm Verified	328	Fire Trouble
309	Intrusion Alarm Unverified	329	Fire Trouble Restoral
310	Intrusion Alarm 24-Hr	331	24-Hour Trouble

Point Report and Restoral Routing			
Item No.	Programming Item	Item No.	Programming Item
311	Intrusion Alarm 24-Hr Restoral	332	24-Hour Trouble Restoral
312	Intrusion Alarm Restoral	335	Supervisory Alarm
313	Duress	336	Supervisory Alarm Restoral
315	Fire Alarm	371	Fire Cancel
316	Fire Alarm Unverified	388	Point Tamper
317	Fire Alarm Restoral	393	Cross Zone Trouble
318	Panic	394	Alarm Recent Close
323	Cancel	399	Panic Restoral
324	Intrusion Trouble	400	Cross Zone Trouble Restoral
325	Intrusion Trouble Restoral		
Range: 0 = Neither Route, 1 = Route 1 only, 2 = Route 2 only, 3 = Both routes			

System On and Off (Open and Close) Report Routing			
Item No.	Programming Item	Item No.	Programming Item
302	System On and Off Reports (all)	341	Open
314	Exit Error	342	Open Keyswitch
330	Recent Closing	343	Open Remote
337	Close (System On) Unoccupied	344	Close (System On) Custom
338	Close (System On) Occupied	386	Open by Guard Code
339	Close Keyswitch	403	Partial Close (System On)
340	Close Remote		
Range: 0 = Neither Route, 1 = Route 1 only, 2 = Route 2 only, 3 = Both routes			

System Report and Restoral Routing			
Item No.	Programming Item	Item No.	Programming Item
303	System Reports and Restorals (all)	358	Low Battery
319	User Emergency	359	Low Battery Restoral

System Report and Restoral Routing			
Item No.	Programming Item	Item No.	Programming Item
320	User Fire	364	Phone Line Fault Restoral
321	User Fire Restoral	372	Firmware Updated
322	User Panic	375	ROM Fault
345	AC Fail	376	Bell Trouble
346	AC Fail Restoral	377	Bell Restoral
347	Auto System Test Normal	378	Walk Test End
348	Auto System Test Off-Normal	379	Walk Test Start
349	Auxiliary Power Fault	380	Bus Device Missing
350	Auxiliary Power Restoral	381	Bus Device Missing Restoral
351	Communication Fail	382	Battery Missing
352	Communication Restoral	383	Battery Missing Restoral
353	Control Center Supervision Fail	384	RAM Checksum Failed
354	Control Center Supervision Restoral	385	System Inactive
355	Control Center Tamper	391	Passcode Tamper
356	Control Center Tamper Restoral	392	Watchdog Reset
357	Local Programming Success	410	Date/Time Changed
362	Communication Test Manual	413	Network Fail
363	Phone Line Fault	414	Network Restoral
Range: 0 = Neither Route, 1 = Route 1 only, 2 = Route 2 only, 3 = Both routes			

Global Report Routing Items		
Item No.	Programming Item	Range
304	Communicator Disable	0 = Enable reporting 1 = Disable reporting
305	Route Attempts	1 to 20
306	Send Report During Walk Test	0 = No 1 = Yes

User Programming Items		
Item No.	Programming Item	Range
861	Passcode Length	4 or 6 digits
862	User 22 Configuration	0 = User 22 is disabled 1 = User 22 is a duress user 2 = User 22 is a guard user
7001	Installer Passcode (User 0)	1111 to 555555
7011	Master User Passcode (User 1)	

Control Center Programming Items		
Item No.	Programming Item	Range
888	Fire Button Alarm [1] key	0 = Disabled 1 = Enabled
889	Medical Button Alarm [1][2] keys	
890	Panic Button Alarm [2] key	0 = Disabled 1 = Audible alarm 2 = Silent alarm
891	One Button Arming	0 = Disabled 1 = Enabled
892	Invalid Passcode Attempt Limit	3 to 8
893	Control Center Lockout Time	1 to 30 min

Point Programming Items		
Programming Item	Item No.	Range
Point Type	Point 01 = 9011 Point 32 = 9321	<ul style="list-style-type: none"> - 0 = Disabled - 1 = Perimeter - 2 = Interior - 3 = Perimeter Instant - 4 = 24-Hour Trouble - 5 = Fire Verified - 6 = Fire Instant - 7 = Panic - 8 = Interior Walkthrough - 9 = Perimeter Exit Cancel - 11 = Momentary Keyswitch - 12 = Maintained Keyswitch - 13 = 24-Trouble - 14 = User Emergency
Circuit Style	Point 01 = 9012 Point 32 = 9322	0 = Dual 2.2 k Ω alarm and tamper circuit 1 = Single 2.2 k Ω alarm circuit

Point Programming Items		
Programming Item	Item No.	Range
Alarm Verification	Point 01 = 9016 Point 32 = 9326	0 = Disable audio alarm verification 1 = Enable audio alarm verification
Programming Item		Item No.
Factory Default		9999

7.2 Country Codes

Country	Code	Country	Code	Country	Code
Argentina	01	Germany	18	Norway	38
Australia	02	Greece	19	Poland	41
Austria	03	Hong Kong	20	Portugal	42
Belarus	62	Hungary	21	Romania	43
Belgium	04	India	22	Russian Federation	44
Bosnia	65	Indonesia	23	Spain	51
Brazil	05	Ireland	24	Sweden	52
Bulgaria	06	Israel	63	Taiwan	54
Canada	07	Italy	25	Thailand	55
China	08	Japan	26	Turkey	56
Croatia	10	Lithuania	29	Ukraine	62
Czech Republic	12	Luxembourg	20	United Arab Emirates	65
Denmark	13	Malaysia	32	United Kingdom	57
Egypt	14	Mexico	34	United States	58
Finland	16	Netherlands	35		
France	17	New Zealand	36		

7.3 Default Passcodes

Passcode	Default
Installer Passcode (User 0)	5432(11)
Master User (User 1)	1234(55)
Guard Code (User 22)	1111(11)

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