



Easy Series

ICP-EZM2



BOSCH

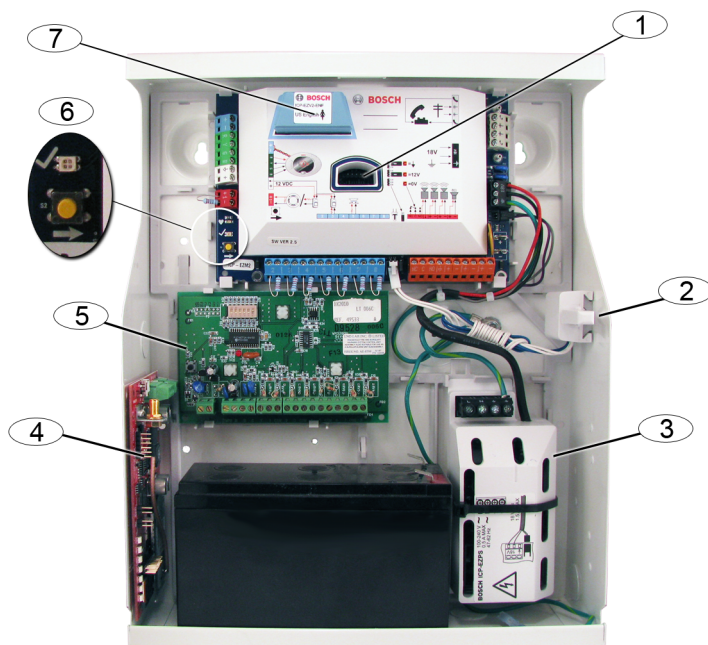
en Quick Start Guide

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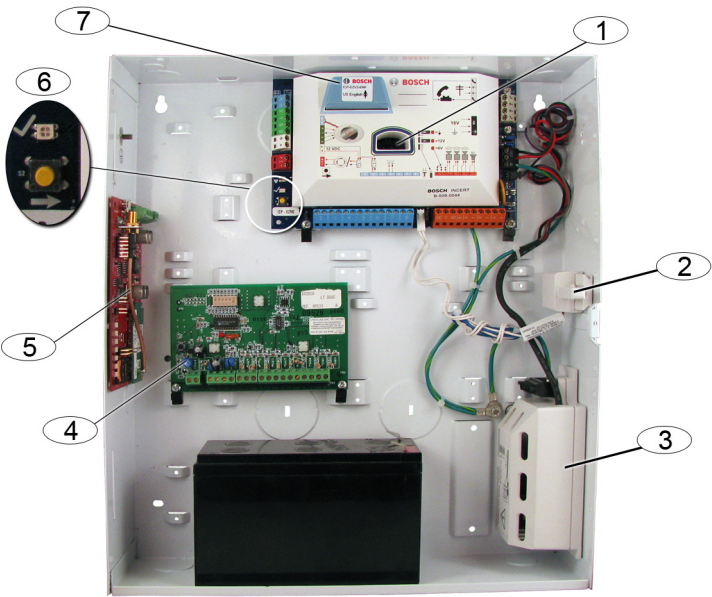
1 Install the Control Panel

1.1 Compact Enclosure



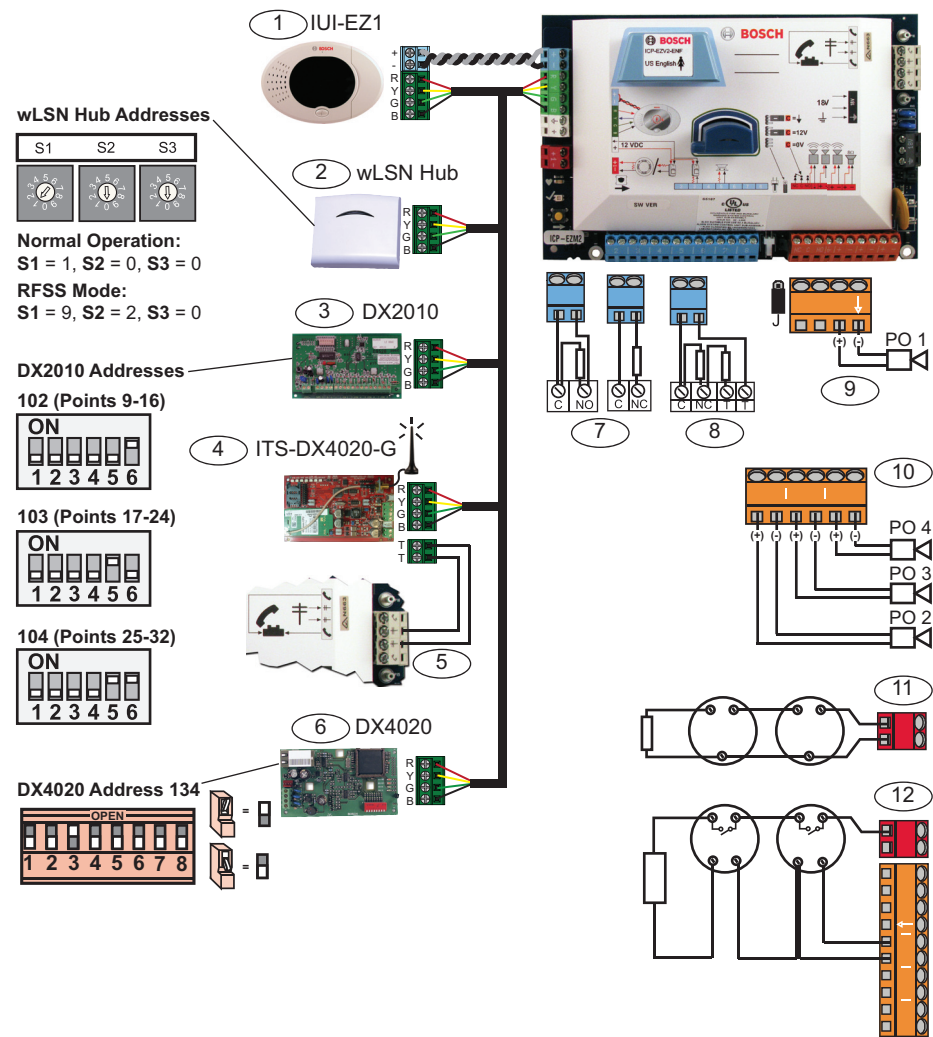
Callout	Description
1	Port for ICP-EZPK programming key and ICP-EZRU2-V3 Update Key
2	ICP-EZTS Cover and Wall Tamper Switch
3	Power Supply
4	Module mounting location (ITS-DX4020-G shown)
5	Module mounting location (DX2010 shown)
6	Status LED (✓) System Test Button (→)
7	Port for ICP-EZV2 Voice Module

1.2 Large Enclosure



Callout	Description
1	Port for ICP-EZPK programming key and ICP-EZRUE-V3 Update Key
2	ICP-EZTS Cover and Wall Tamper Switch
3	Power Supply
4	Module mounting location (DX2010 shown)
5	Module mounting location (ITS-DX4020-G shown)
6	Status LED (✓) System Test Button (→)
7	Port for ICP-EZV2 Voice Module

2 Wire the Control Panel



Callout	Description
1	Control Center (IUI-EZ1) Assign a unique address to each installed control center (1 to 4).
2	wLSN Hub
3	DX2010 Point Expander
4	ITS-DX4020-G Integrated GPRS/GSM IP Communicator Provides GPRS with GSM backup communication.
5	Audio cable connections from ITS-DX4020-G to control panel
6	DX4020 Network Interface Module Provides a hard-wired Ethernet connection to the central station receiver.
7	Single 2.2 kW EOL configuration (NO and NC)
8	Dual 2.2 kW EOL configuration (NC)
9	Programmable Output 1 switched 12 V configuration (default)
10	Programmable Outputs 2 to 4
11	2-wire smoke detector (use 2.2 kW EOL resistor)
12	4-wire smoke detector (use 2.2 kW EOL resistor and EOL relay module)

3 Configure the System

Basic Programming:

1. Enter Basic Programming and make the following changes:
Refer to *Section 4 Installer Telephone Menu*, page 11.
 - Modify point types.
 - Record point descriptions.
 - Enter an account number.
2. Press [#][#] to exit Basic Programming.
3. Enter the User Menu and change the Installer Passcode.
4. Press [#][#] to exit the Installer Telephone Menu.

If using wLSN devices:

5. Set the switches on the wLSN hub to RFSS Mode.
S1 = 9, **S2** = 2, **S3** = 0
6. Use the wLSN Installation Tool to perform a radio-frequency signal strength (RFSS) test.
 - a. Go to the first wireless device location.
 - b. Press any key on the Installation Tool to turn it on.
 - c. Press and hold the [*] and [#] keys to enter RFSS Mode.
 - d. Press the [3] key to enter Mode 3.
 - e. Hold the Installation Tool in the desired device location for at least 10 sec.
 - f. Compare the reading on the Installation Tool to *Table 3.1* to determine if you have acceptable RFSS.

Signal to Noise Ratio	Signal Strength
< 9 dB	Unacceptable
9 dB	Marginal (not recommended)
13 dB	Acceptable
16 dB	Good
20 dB	Very good
22 dB	Excellent

Table 3.1 Signal to Noise Ratio Data

7. Mount the bases for the wireless devices in the desired locations.

Do not mount the wireless devices to the bases at this time.

8. Remove all power from the system.
9. Set the switches on the wLSN hub to normal operating mode (**S1** = 1, **S2** = 0, **S3** = 0).
10. Reapply system power.
Wait for the solid green circle to appear on the control center.
11. Enter the Installer Telephone Menu.
Refer to *Section 4 Installer Telephone Menu*, page 11
12. Press [1][6] to enter the Wireless Configuration Menu.
13. When the system announces, "Install all batteries":
 - a. Install batteries in all wireless devices.
 - b. Install the wireless devices on the bases.
 - c. Cover all motion detectors with masks.
14. Wait approximately 6 minutes until the system announces "Wireless devices found xx."
"xx" = the number of wireless devices found.
15. Walk-test all devices (fault and restore).
The system assigns wLSN point numbers in the order that they are activated.

NOTICE!

Ensure that you hear the system speak "was tested" for each device you walk-test before proceeding to the next device.

You must properly test each wLSN device for system enrollment:



- **Door-Window Contact:** Open and close the door.
 - **Motion Detector:** Remove mask and walk across its coverage area.
 - **Smoke Detector:** Press and hold the test button for approximately 4 sec.
-

If using GPRS or GSM communication:

16. On the ITS-DX4020-G, ensure the CONFIG jumper pins are shorted together.
17. Apply AC and backup battery power to the system.
The STATUS LED on the ITS-DX4020-G double-flashes while the ITS-DX4020-G initializes. When initialization completes, the STATUS, CELL IP, and AUDIO ACT LEDs start a scrolling pattern.
18. Compose the configuration SMS string on your mobile phone.
Separate each id/value pair with a line feed, carriage return, or semi-colon (;).

Do not enter a blank space. Blank spaces are read as character entries.

Table 3.2 shows an example of a single SMS message.

SMS Line No.	Description	Sample SMS
%1<LF>	SMS sequence number	%1 1=DX4020 10=basic.m2m 11=none 12=none !
1=DX4020<LF>	Default password	
10=basic.m2m<LF>	Access Point Name (APN) (provided by carrier)	
11=none<LF>	Default GPRS username (only used if required by carrier)	
12=none<LF>	Default GPRS password (only used if required by carrier)	
!	End of configuration	

Table 3.2 Single SMS Example

19. Send the configuration SMS to the SIM card phone number.
20. Observe the LEDs. When all LEDs start a scrolling pattern, the ITS-DX4020-G is successfully configured.
21. Remove the jumper plug from the CONFIG jumper pins.
The ITS-DX4020-G restarts.

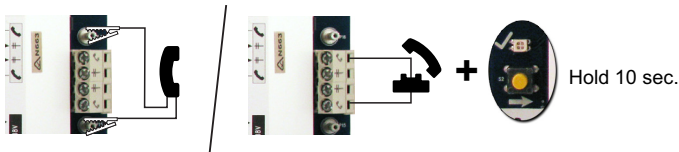
Test the System:

22. Enter the Installer Telephone Menu.
23. Press [1][2] to perform a full system test.
24. When the full system test is complete, press [#][#] to exit the Installer Telephone Menu.

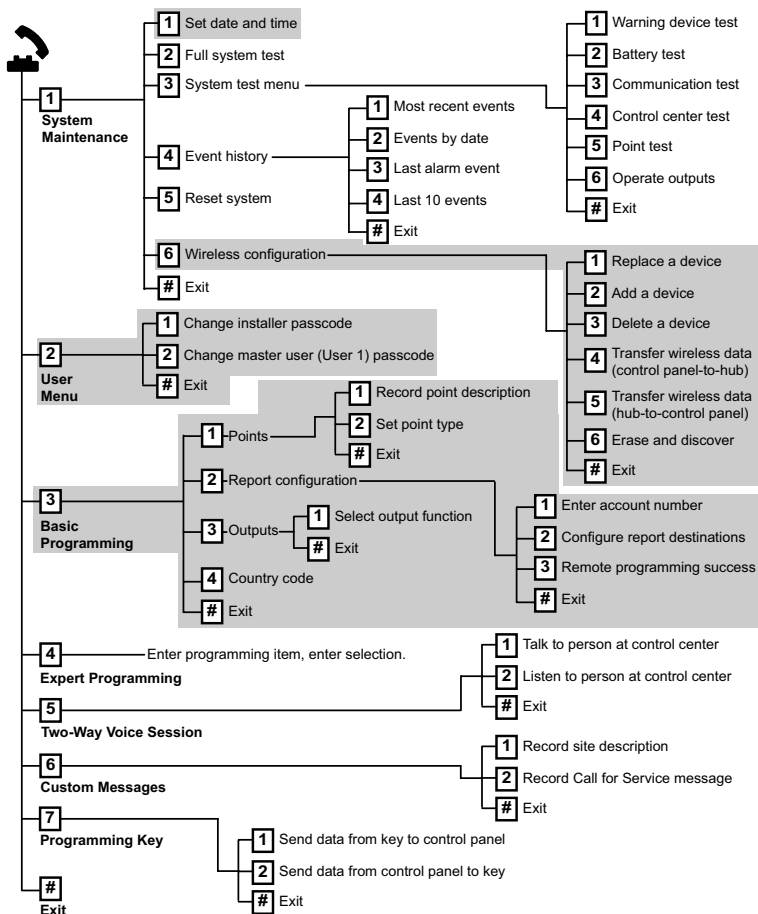
4 Installer Telephone Menu

To enter the Installer Telephone Menu:

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



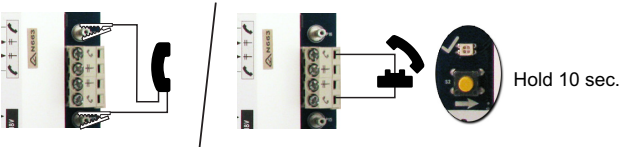
2) Enter the Installer Passcode **Default: 5432(11)**



5 Add/Change Users

To enter the User Telephone Menu:

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



2) Enter the Master Passcode **Default:** 1234(55).

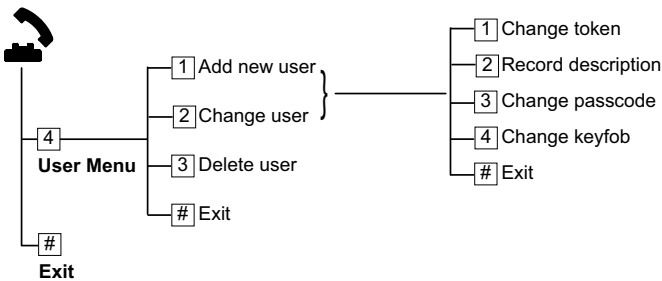


Figure 5.1 User Telephone Menu

Add Users	Change Users
1. Enter the User Telephone Menu.	1. Enter the User Telephone Menu.
2. Enter the Master User (User 1) passcode.	2. Enter the Master User (User 1) passcode.
3. Press [4] to enter the User Menu.	3. Press [4] to enter the User Menu.
4. Press [1] to Add a new user. - Assign a passcode. - Assign a token and/or a keyfob. - Record a voice description.	4. Press [2] to change a user. 5. Press [2] repeatedly until the system speaks the desired user number.
5. Repeat Step 4 for additional users.	5. Repeat Step 4 in Add Users .
6. Press [#] to return to the User Menu, or [#][#][#] to exit completely.	6. Press [#] to return to the User Menu, or [#][#][#] to exit completely.

6 Appendix

6.1 Expert Programming

System Programming Items		
Item No.	Programming Item	Range
102	Country Code	00 to 99 (see <i>Section 6.2 Country Codes, page 22</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
162	Missing Wireless Device Conditions	0 = Missing conditions create a tamper condition (meets EN50131). 1 = Missing conditions create a trouble condition.
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.

System Programming Items		
Item No.	Programming Item	Range
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 Refer to <i>Table 6.1</i> for more information.
601	Enable Keyfob Duress	0 = Wireless keyfob does not send a Duress event 1 = Wireless keyfob sends a Duress event

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.
[#]	Cancels first digit of 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.

Table 6.1 Audio Verification Commands

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 or GSM Connection	0 = PSTN telephone line 1 = ITS-DX4020-G Wireless Phone using GSM
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 Backu	
215	Call Waiting Disable	3 or 4 digits * = [*][*]; # = [*][#]
216	Emergency Call Override No.	3-digit number
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:		
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

RPS Configuration Items		
Item No.	Programming Item	Range
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
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

Output Programming Items		
Item No.	Programming Item	Range
600	Fire Output Cadence	0 = Temporal Code 3 1 = Pulse

Output Programming Items		
Item No.	Programming Item	Range
611	Output 1	0 = Output disabled 1 = Intrusion 2 = Intrusion Latching 3 = Fire 4 = Fire Latching 5 = Intrusion and Fire 6 = Intrusion and Fire Latching 7 = System Reset 8 = System On 9 = System Ready 10 = Key Fob On/Off 11 = Key Fob 2-sec Pulse 13 = User Controlled 14 = Interior Intrusion and Fire 15 = System On (Unoccupied) 16 = Intrusion and Fire 2
621	Output 2	
631	Output 3	
641	Output 4	
651	Output 5 (wireless)	
661	Output 6 (wireless)	
671	Output 7 (wireless)	
681	Output 8 (wireless)	
642	Output 4 Function	0 = Supervised 8 Ω speaker driver 1 = Unsupervised open collector

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
889	Medical Button Alarm [1][2] keys	1 = Enabled
890	Panic Button Alarm [2] key	0 = Disabled 1 = Audible alarm 2 = Silent alarm
891	One Button Arming	0 = Disabled 1 = Enabled

Control Center Programming Items		
Item No.	Programming Item	Range
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	– 0 = Disabled
	Point 32 = 9321	– 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	0 = Dual 2.2 k Ω alarm and tamper circuit
	Point 32 = 9322	1 = Single 2.2 k Ω alarm circuit
Alarm Verification	Point 01 = 9016	0 = Disable audio alarm verification
	Point 32 = 9326	1 = Enable audio alarm verification

Programming Item	Item No.
Factory Default	9999

6.2 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		

6.3 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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