Self Contained Wireless Alarm System v1.0 AUS Installation Guide







WARNING: This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

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SAFETY INSTRUCTIONS FOR SERVICE PERSONNEL

WARNING: WHEN USING EQUIPMENT CONNECTED TO THE TELEPHONE NETWORK, THERE ARE BASIC SAFETY INSTRUCTIONS THAT SHOULD ALWAYS BE FOLLOWED. REFER TO THE SAFETY INSTRUCTIONS PROVIDED WITH THIS PRODUCT; SAVE THEM FOR FUTURE REFERENCE. INSTRUCT THE END-USER REGARDING THE SAFETY PRECAUTIONS THAT SHALL BE OBSERVED WHEN OPERATING THIS EQUIPMENT.

Before Installing The Equipment

Do not use a sharp or metal object to open the packaging! Ensure your package includes the following items:

- User's Guide (Manual) including the Safety Instructions. *Read and save these Instructions. Follow all Warnings and Instructions specified within these Instruction and/or on the equipment.*
- Equipment SCW904x
- Power Supply, Direct Plug-In
- Mounting Hardware

Selecting A Suitable Location For The Alarm Controller

Use the following list as a guide to find a suitable place for this equipment:

- Locate it near a telephone socket and a power outlet
- Select a place that is free from vibration and shocks
- Place the Alarm Controller on a flat, stable surface and follow the Installation suggestions

Do **NOT** locate this product where persons will walk on the secondary circuit cable(s).

Do NOT use extension cords to PLUG-IN the Power Supply of this equipment.

AVOID setting up the equipment near heaters, air conditioners, ventilators, and/or refrigerators.

Do NOT connect the Alarm Controller to electrical outlets on the same circuit as large appliances.

Do NOT select a place that exposes your alarm controller to direct sunlight, excessive heat, moisture, vapors, chemicals or dust.

Do NOT install this Equipment near water. (e.g., Bath Tub, Wash Bowl, Kitchen/Laundry sink, In a wet basement, or near swimming pool, etc.).

Do NOT install this equipment and its accessories in areas where there is a risk of explosion.

Do NOT connect this Alarm Controller to electrical outlets controlled by wall switches or automatic timers; avoid interference sources.

Safety Precautions Required During Installation:

- NEVER install this equipment and/or telephone wiring during a lightning storm
- NEVER touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface
- Ensure that cables are positioned so that accidents can not occur. Connected cables must not be subject to excessive mechanical strain
- Use only the power supply supplied with this equipment. Use of unauthorized power supplies may cause damage
- The AC socket/outlet powering the equipment shall be located near the equipment and shall be easily accessible

WARNING

THIS EQUIPMENT HAS NO MAINS ON/OFF SWITCH. THE PLUG OF THE DIRECT PLUG-IN POWER SUPPLY IS INTENDED TO SERVE AS THE DISCONNECTING DEVICE IF THE EQUIPMENT MUST BE QUICKLY DISCONNECTED. IT IS IMPERATIVE THAT ACCESS TO THE MAINS PLUG AND ASSOCI-ATED MAINS SOCKET/OUTLET, IS NEVER OBSTRUCTED.

Section 1: Installation & Wiring

This Installation Guide provides the basic installation, wiring and programming information for the PowerSeries Self Contained Wireless (SCW) Security System.

This publication covers the following versions of the SCW Security System:

SCW9045-433 v1.0

TECHNICAL SUMMARY

Specifications

Temp Range	0°C-49°C (32°F-120°F)
Humidity (Max)	93%RH Non Condensing
Power Supply	16.5VAC/20VA (Min.) @50/60Hz.
Current Draw from Transform	er400mA AC (Max.)
Aux+ Output	12.0-12.5VDC/100mA

Features

Wireless Zones	
*On-board I/O	2
Partitions	1
Wireless Keys	
User Codes	16 + 1 Master Code
Event Buffer	128 Events
LCD Display	2 Rows x 16 Char
Plug-in Transformer	. Secondary 16.5 VAC/20-40VA
Battery Backup (24Hr Backup)	7.2VDc@1500 mAH

* I/O Terminals can be configured as Zone Inputs or PGM Outputs When configured as PGMs, outputs are 50mA

Compatible Wireless Devices

SCW9045-433 v1.0	all DSC 433EU Devices
WS4904(P)	PIR Motion Detector
WS4916	Smoke Detector
WS4945	Door Contact
WS4965	Door Contact
WLS912L-433	Glass Break Detector
WLS914-433	PIR Motion Detector
WS4938	Panic Pendant
WS4939	Wireless Key

IMPORTANT NOTE!

This equipment, SCW Alarm System shall be installed and used within an environment that provides the pollution degree max 2 and over-voltages category II NON-HAZARDOUS LOCATIONS, indoor only. The equipment is DIRECT PLUG-IN connected and is designed to be installed, serviced and/or repaired by **service persons** only; [**service person** is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons]. There are no parts replaceable by the end-user within this equipment.

The power supply must be **direct plug-in**, **fail safe**, **with double** or **reinforced insulation between primary and secondary circuits**. In EU countries it must meet the applicable requirements of the Low Voltage Directive and protected as per the EN60950-1:2001 Standard Requirements. In all other countries, it must be of an approved type acceptable to the local authorities; it is the **installer's responsibility** to ensure that the socket-outlet that the transformer is plugged-in, is near the equipment and is easily accessible.

The wiring (cables) used for installation of the **SCW Alarm System and accessories**, shall be insulated with PVC, TFE, PTFE, FEP, Neoprene or Polyamide.

- (a) The equipment enclosure must be secured to the building structure before operation.
- (b) Internal wiring must be routed in a manner that prevents:
 - Excessive strain on wire and on terminal connections;
 - Loosening of terminal; connections;Damage of conductor insulation
 - Damage of conductor insulation
- (c) Disposal of the used battery packs shall be made according to the waste recovery and recycling regulations applicable to the intended market.
- (d) Before servicing, DISCONNECT the power and telephone connection.
- (e) Do NOT route any wiring over circuit boards.

1.1 Installation:

1 Select desired Location and Mounting Option

```
Wall Mount Installation
```





(a) Drill 4 holes in the desired location and insert drywall plugs.

(b) Route wiring through the access hole or cable guide as required.(c) Secure backplate to wall using the 4 screws provided.

(a) Remove adhesive backing and install the rubber feet (4).(b) Route wiring through the cable guide.

2 Connect wiring to the terminals indicated. See Section 1.2 Wiring for details.

Figure 1, Wiring Details



Do NOT apply power until wiring is completed.

3 Connect battery cable connector to the PC Board.

- Ensure connector is oriented correctly.
- 4. Position Alarm System mounting holes over mounting hooks. Slide unit downward until unit snaps in place.
- 5. Secure Alarm System to wall or desk mount with the two screws provided.
- 6. Enroll devices. Enter [*][8][Installer Code][898]. See Section 2, Wireless Device Enrollment.
- 7. If performing Template programming, enter [*][8][Installer Code][899]. See Section 3, Template Programming.
- 8. Enter Advanced Programming if required. See Section 6, Advanced Programming.
- 9. Test System by violating zones and verifying successful transmission to the monitoring station.

See DLS Programming on page 9 for reprogramming an existing Installation.

AC Power must be present for the Alarm system to answer incoming calls from DLS.

After the initial installation 24 Hrs. is required to fully charge the standby battery.

1.2 Wiring

1. Telephone Line Wiring



DSC recommends that the following transformer shall be used:

A41609AC (50Hz.) Right Angle Barrel Connector (supplied)

NOTE: Do not connect transformer to a receptacle controlled by a switch.

Section 2: Wireless Device Enrollment

Before a wireless device can be recognized by the security system, it must be enrolled. Devices that are not enrolled will be ignored by the system. See "Section [904]: Wireless Module Placement Test" on page 43.



Device Enrollment must be performed close to the alarm system.

Maximum signal strength is required to ensure that the correct device is being enrolled.

Pressing the # key at any time will return user to previous screen.

1. Enter Wireless Enrollment Mode

Enter [*][8] [Installer Code] [898] on the system keypad.



2. Activate Wireless Device

- For FOBs & Panic Pendants Press any button
- For PIRs, Smoke and Glass Break Detectors Activate Tamper
- For Contact Switches Close Contacts

3. Verify Device Electronic Serial Number (ESN)

When a device is activated the Alarm system will display the corresponding 6-digit ESN on the keypad. Verify that the ESN displayed corresponds to the ESN on the device.



Note: The first digit of the ESN indicates the following:

- 2 denotes contact
 - denotes PIR/Glass Break Detector
- 4 denotes Smoke Detector
- 5 denotes Pendant

3

6&9 denotes FOB

4. Press [*] to confirm correct ESN, or press [#] to delete device if incorrect.

If the ESN displayed on keypad does NOT correspond to the ESN on the device being enrolled.

- Deactivate the wireless device

- Press the # key to repeat the enrollment process.

- Perform these steps until the correct ESN is displayed



If the device fails to enroll (i.e., incorrect ESN) attempt manual programming and testing of the device before determining that the device is faulty. Maximum signal strength is required to ensure that the correct device is being enrolled.

5. Enter Zone Number



After confirming that the device ESN is correct, the installer will be prompted to enter a zone number.

If the installer selects a zone that is currently in use, the installer will be prompted to overwrite the current zone or select a new zone. If all zones are in use the installer will be prompted to overwrite the selected zone.

1																
	` !!! `															
7		IIIII	TIT	mm	mm	TIT	TTTT	mm	mmn.	mm	mm	TTTT.	mm	mmn.	TTT	mm



If the installer attempts to enroll a device already on the system, the keypad will briefly indicate that it is a duplicate ESN.

		-				#					
шп	шШ	шп	шп	шп	mm,						

Zone Dependant Devices (Detectors)

Zohe Type: 85								
Zome Type: 85 🔛	ann							

After the zone has been selected the keypad will display zone type 03. The Installer may enter an alternate zone type if required. When the zone type has been selected the device will be enrolled.

Place wireless detectors in the desired locations and perform the wireless placement test. Reposition devices if necessary to achieve the required signal strength.

For FOBs, the device is enrolled when the slot is selected. Zone type is not requested.

Section 3: Template Programming

Template programming allows the Installer to quickly program the minimum functions required for basic operation. The installer is prompted to enter a 4-digit code that selects predefined zone definitions, reporting code formats, Troubles & Restorals, and DLS setup (see Digit 1 - 4 tables below). The Installer is then prompted to enter the Central Station Telephone Number & Account Code, DLS Access Code, Entry & Exit Delays and Installer Code (see entry 5-9 below).

Selecting [*][8] [Installer Code] [899] displays the default settings for the first 4 options below.

Once this section has been entered, the Installer cannot exit until all sections are completed. Enter new data and/or Press # key to accept the displayed data and proceed to the next section.

Changing a single digit, then pressing the # key will advance to the next section but will not save the changed data. Enter all 4 digits or scroll to the end of template programming and exit to save data.

STEP 1



• **Digit 1** selects 1 of the following 6 options for Zone definitions for the first 8 zones. A '0' in the digit 1 location indicates that the default settings for the first 8 zones are in place unless overridden. See Section [001]-[002] on page 15 for defaults.

Option	Zn1	Zn2	Zn3	Zn4	Zn5	Zn6	Zn7	Zn8
1	1	3	3	3	4	4	4	4
2	1	3	3	5	5	5	5	88
3	1	3	3	5	5	5	5	87
4	1	1	3	3	3	3	3	3
5	1	3	3	6	5	5	5	5
6	1	3	3	6	5	5	5	88
Refer to '	'Section [001]-[002] Zone De	efinitions"	on page	32 for det	ails	

Zone Definitions (Options 1- 6)
1 Delay 1
2 Delay 2
3 Instant
4 Interior
5 Interior Stay/Away
6 Delayed Stay/Away
87 Delayed 24Hr. Fire (Wireless)
88 Standard 24 Hr. Fire (Wireless)

Digit 2 selects 1 of the following 6 options for Reporting Codes

Opt#	Phone Line 1	Programming Section	Phone Line 2	Programming Section
1	Disabled	[380] Opt 1 OFF	Disabled	
2	SIA automatic Reporting Codes enabled	[350] 1st Phone # [04] [380] Opt 1 ON [381] Opt 3 OFF	SIA Automatic Reporting Codes Enabled	[350] 2nd Phone # [04]
3	Contact ID Reporting Codes enabled	[350] 1st Phone # [03] [380] Opt 1 ON [381] Opt 7 OFF	SIA Automatic Reporting Codes Enabled	[350] 2nd Phone # [04] [381] Opt 3 OFF
4	SIA automatic Reporting Codes enabled	[350] 1st Phone #[04] [380] Opt 1 ON [381] Opt 3 OFF	Residential Dial Enabled	[350] 2nd Phone # [06]
5	Contact ID Reporting Codes enabled	[350] 1st Phone # [03] [380] Opt 1 ON [381] Opt 7 OFF	Residential Dial Enabled	[350] 2nd Phone # [06]
6	Contact ID Reporting Codes enabled	[350] 1st Phone # [03] [380] Opt 1 ON [381] Opt 7 OFF	Contact ID Reporting Codes Enabled	[350] 2nd Phone # [03]

• **Digit 3** selects 1 of the 8 following options

Option	Common Group	Selected Troubles	Openings/ Closings	Zone Restorals	DLS/Installer Lead In/Out
1	~			×	×
2	~	~		×	×
3	~		~	×	×
4	~	~	~	×	×
5	~	~			×
6	~		~		×
7	~	~	~		×
8	~				
v	 indicates inc 	luded, Blank ind	icates default setti	ng, 🗙 indicates o	disabled

• Common Group - Sets all Reporting Codes to Automatic

Description	Phone 1	Phone 2	Sections
Set all Reporting Codes to automatic			[320] - [348] FF
Alarm/Restore call directions enabled	~	×	[351][1] ON, [2] OFF
Tamper/Restore Call directions disabled	×	×	[359][1] OFF, [2] OFF
Opening/Closing Call directions disabled	×	×	[367][1] OFF, [2] OFF
Maintenance Call Directions enabled	~	×	[375][1] ON, [2] OFF
Test Transmission Call directions disabled	×	×	[376][1] OFF, [2] OFF

• Selected Troubles - Enables the following Troubles

Trouble	[345] Alarms	[346] Restoral	
Battery	FF	FF	
AC Failure	00	00	
Fire Trouble	FF	FF	
Aux PS	FF	FF	
TLM	XX	00	
General System	00	00	
FF = Communicate in automatic format, 00 = Disabled, XX = Not Transmitted			

• Openings & Closings - Sets Residential Dial Reporting Codes for all openings and closings

Users	CLOSIN	GS, Resid	lential Dia	al Reporti	ng codes				Section
1-8	51	52	53	54	55	56	57	58	[339]
9-16	61	62	63	64	65	66	67	68	[339]
40	99	FF	FF	FF	FF	ХХ	XX	ХХ	[341]

Users	OPENIN	OPENINGS, Residential Dial Reporting codes						Section	
1-8	11	12	13	14	15	16	17	18	[342]
9-16	21	22	23	24	25	26	27	28	[342]
40	98 FF XX XX XX XX XX XX XX						[344]		
Enable Opening/Closings call directions for Phone 2 FF = Communicates in Automatic Mode, XX = Not Used					[367] Opt 2 ON				

• Installer Lead-in/Lead-out and DLS Lead-in/Lead-out

DLS Lead In	DLS Lead Out	Installer Lead Out	Installer Lead In		
Sect [347] Opt 4	Sect [347] Opt 5	Sect [347] Opt 11	Sect [347] Opt 12		
Disabled for all Template Options except Option 8					

Digit 4 indicates/selects 1 of the 3 following DLS Connections

Option	Double Call Sect [401] Opt 1	Call Back Sect [401] Opt 3	#Rings Sect [406] Opt 3
1	×	×	0
2	~	×	8
3	~	~	8

After the 4th digit is entered you will be prompted to enter the following Data. Refer to Section 8 for additional programming functions.

Step 2	Central Station Telephone Number
	Enter 32 Character Telephone number - See "Section [301]-[303] Communication Telephone Numbers" on page 37 for details.
Step 3	Central Station Account Code
	Enter the 6-digit code - See "Section [310] System Account Number" on page 37 for details.
Step 4	DLS Access Code
	Enter the 6-digit code - See "Section [403] Downloading Access Code" on page 40 for details.
Step 5	Entry Delay1, Exit Delay
	Enter Entry Delay1, Exit Delay - See "Section [005] System Times" on page 33 for details.
Step 6	Installer Code
	Enter a 4 or 6-digit entry depending on setting of Section [701] Opt 5 - See "Section [006] Installer Code" on page 33 for details.

Section 4: DLS Programming

4.1 Local Programming with PC-Link

Follow the steps below in the sequence indicated to set up local programming using DLS:

New installations (refer to Section 1.1 Installation: on page 2)

- 1. Remove the Alarm System from the Wall Mount or Desk Mount.
- 2. Connect the AC Wiring.



In a new installation the backup battery requires 24 Hrs. charging. AC Power is required for PC-Link Programming until battery is charged.

3. Connect the PC-Link cable between the computer (with DLS Software installed) and the header pins on the alarm system.

(1) Connecting the DLS PC to the system will automatically initiate the connection.

4. When programming has been completed, remove the PC-Link cable

5. Complete the installation.

4.2 Remote Programming (via telephone line)

Refer to Section "[401] Downloading Options" on page 24 and page 39 for details.

AC Power must be present for the alarm system to answer incoming calls from DLS.

Section 5: Operation

The LCD keypad displays the description and status indicator lights represent alarm functions and status. This section describes basic keypad commands. Refer to the User Guide for detailed descriptions of all keypad commands.



Press the [#] key to reset the keypad if an error has been made entering user codes or keypad commands.

5.1 – Away Arming

The Ready light must be **ON** to arm the system. If the Ready light is **OFF**, ensure all protected doors and windows are secure or bypassed. To arm the system in the Away mode, either press and hold the Away function button for 2 seconds or enter a valid user code and leave the premises through a door programmed as Delay. Upon pressing a function key or entering an access code, the Armed light will turn **ON**. If the Audible Exit Delay option is enabled, the keypad will beep once every second during the exit delay (and three times a second during the last 10 seconds) to alert the user to leave. The Ready light will turn off when the **Exit Delay** ends.

5.2 – Stay Arming

The Ready light must be **ON** to arm the system. If the Ready light is **OFF** ensure all protected doors and windows are secure or bypassed. To arm the system in the Stay mode, either press and hold the Stay function button for 2 seconds or enter a valid user code and stay within the premises (do **NOT** violate a door programmed as Delay). Upon pressing a function key or entering an access code, the Armed light will turn **ON**. If the Stay function button is used, the keypad will not beep during the exit delay to avoid annoying the person staying in the premises. If a user code was used, the keypad will beep if the **Audible Exit Delay** option is enabled. The Ready light will turn off when the **Exit Delay** ends.



Zones must be programmed with Zone definitions: 05 Interior Stay/Away, 06 Delay Stay/Away, or 32 Instant Stay/Away for this function to work.

5.3 – Disarming

The user must enter through a door programmed as Delay. Upon entering, the keypad will emit a steady tone (and emit a pulsing tone during the last 10 seconds of entry delay) to alert the user to disarm the system. Enter a valid user code to disarm the system. If an alarm occurred while the panel was armed, the keypad will display 'Alarm in Memory'. Press the [#] key to return the keypad to the Ready state.

5.4 – **[*]** Commands

The following is a list of the **[*]** commands available and a description of each:

[*][1]	Bypass (disarmed state)/Reactivate Stay/Away Zones (armed state)
[*][2]	Display Trouble Conditions
[*][3]	Display Alarm Memory
[*][4]	Door Chime Enable/Disable
[*][5]	User Code Programming
[*][6]	User Commands
[*][7][x]	Command Functions $1-2$
[*][8]	Installer Programming
[*][9][code]	No-Entry Arming
[*][0]	Ouick Arm (disarmed state)/Ouick Exit (armed state)

[*][1] – Bypass/Re-activate Stay/Away and Night Zones

Press [*][1] to enter the bypass mode. If the Code Required for Bypass option is enabled, enter a valid user code. The keypad will display 'Scroll to Bypass Zones'. The keypad will display the programmed zone labels for the zones and include the letter 'O' in the bottom, right corner if the zone is violated or the letter 'B' if the zone is bypassed. Scroll to the appropriate zone and press the [*] key to change the bypass status (or enter the 2-digit zone number). Once the correct zones are bypassed, press [#] to exit.

Additional Bypass Commands:

Bypass Recall:	Press [99]. The keypad will recall the last group of zones that were bypassed.
Clear Bypass:	Press [00]. The keypad will clear the bypass on all zones.
Save Bypass:	Press [95]. The keypad will save which zones are manually bypassed.
Recall Save:	Press [91]. The keypad will recall the bypassed zones that were saved.

Re-activate Stay/Away and Night Zones:

Press [*][1] when the system is armed in the Stay mode to change the armed status to Away mode or Night mode. The system will add the Stay/ Away zones back into the system after the exit delay time expires.



If any zones are programmed as Night Zones (zone definition 37) pressing [*][1] will activate the Night mode instead of Away mode. Only Night Zones will be bypassed.

[*****][2] – Trouble Display

Refer to Section 9: Testing & Troubleshooting, for troubleshooting assistance and a detailed description of all trouble conditions.

[*****][3] – Alarm Memory Display

Pressing the scroll <> keys will display an "Alarms in Memory" message if an alarm occurred during the last armed period. Pressing **[*]**[3] will display the message "Scroll to view Alarms". Scrolling will display the zones that went into alarm. To clear the Memory, arm then disarm the system.

[*****][4] – Door Chime Enable/Disable

Press **[*]**[4]. The keypad will emit 3 rapid beeps to indicate that the door chime feature is now enabled and a steady 2-second tone if it is now disabled. The same function can be performed by pressing and holding the Chime function button for 2 seconds.

[*][5] – Program User Codes

The following table identifies available user codes:

Code	Туре	Function
[01] – [16]	General User Codes	Arm, disarm, attribute functions
[40]	Master Code	All functions, arm, disarm, program user codes

Programming User Codes:

Press **[*]**[5] followed by the Master Code. The keypad will display the first user (user 01) and include the letter 'P' if the user code is programmed. Scroll to the appropriate user and press the **[*]** key to program the user (or enter the 2-digit user number). Enter a new 4 or 6-digit user code or press **[*]** to delete the user code. After the user code is programmed or deleted, scroll to another user or press **[#]** to exit.

Programming User Attributes:

Press [*][5] followed by the Master Code or Supervisor Code. Press [9] followed by the 2-digit user to change to the user attributes.

[1]	Supervisor's Code This attribute makes the code valid when entering the [*][5] User Code Programming section and [*][6] User Functions. Note, these codes can only program codes which have equal or lesser attributes. This attribute will also allow this user to create bypass groups if an access code is required to enter into [*][1] Bypassing.
[2]	Duress Code Duress codes are standard user codes that will transmit the Duress Alarm Reporting Code whenever the code is entered to perform any function on the system.
[3] [4]-[6] [7] [8]	User can manually bypass zones if Bypassing requires an access code. Future Use The panel will squawk the bell output when the user arms or disarms when in Away Armed mode. One-time Use Code The One-time-use Code allows unlimited arming but only permits a single disarming once a day. The Disarm function is restored at midnight.

To change the user attributes, press the number corresponding to the attribute or scroll to the desired attribute and press [*]. When the correct attributes are assigned to the user, press [#] to exit. To change the user attributes for another user, press [9] followed by the 2-digit user number. When finished, press [#] to exit.



These attributes affect the operation of wireless keys.

Wireless key numbers (01-16) correspond with User access codes (01-16).



Duress codes are not valid when entering [*][5], [*][6] or [*][8] sections and will transmit a duress alarm. Duplicate codes and codes that are +/- 1 of an existing code can not be programmed.

[*****][6] – User Functions

Press [*][6] followed by the Master Code, then press the number corresponding to the following functions or scroll to the desired option, then press [*].

- [1] **Program Time and Date:** Enter the time and date using the following format **[HH:MM] [MM/DD/YY]**. Program the time using military standard (e.g., 8:00 pm = 20:00 hours).
- [2]-[3] Future Use
 - [4] **System Test:** The panel will activate the keypad buzzer, LCD pixels and all keypad status lights for 2 seconds followed by 2 seconds of full volume alarm, perform the battery test, then transmit a reporting code to the central station (if programmed).
 - [5] Enable DLS: The panel will temporarily enable DLS double-call for 6 hours.
 - [6] User Initiated DLS: The panel will attempt to call the DLS computer.
 - [7] Future Use
 - [8] User Walk Test Mode: The panel will switch into User Walk Test Mode. The panel will display the base mode menu.

Additional Keypad Functions:

When scrolling through the list of available functions, the following additional functions are available:

Used to view the 128-event panel buffer
Used to adjust the display backlighting level for optimal viewing
Used to adjust the display contrast level for optimal viewing
Used to adjust the keypad buzzer tone for optimal sound

[*][7][x] – Command Outputs (1&2)

Press **[*]**[7]**[**x**]**. If the Command Output Code Required option is enabled, enter a valid user code. The panel will activate any PGM output assigned to the command output.

[*][8] – Installer Programming

Press **[*][8][Installer Code]** to enter Installer Programming. Installer programming allows the installer to program all system functions. Refer to the *Section 6: Advanced Programming* for details.

[*****][9][User Code] – No-Entry Arming

Press **[*]**[9] followed by a valid user code. The system will arm in the Stay mode and after the exit delay expires, it will remove entry delay. All zones programmed as Delay will function like Instant zones. The system will flash the Armed light to indicate that the system is armed with no entry delay.

[*****][0] – Quick Arm/Quick Exit

Quick Arm: When disarmed, press [*][0] to arm the system. The system will arm as if a valid user code was entered.

Quick Exit: When armed, press [*][0] to activate Quick Exit. The system will allow a single zone programmed as Delay to be violated once during the following 2 minute time period without changing the status of the system.

5.5 Function Keys

The keypad has 5 programmable one-touch function keys located in a column down the right-side of the keypad. These keys can also be activated by pressing and holding number [1] through [5] respectively for 2 seconds. The default for these keys are as follows:

[1] Stay Arm

- [4] Bypass[5] Quick Exit
- [2] Away Arm[3] Chime Enable/Disable

5.6 Language Selection

The keypad can be programmed to display messages and labels in different languages. Perform the following when in 'Ready to Arm' mode or base Installer programming menu:

- [1] Press and hold both scroll keys [<>] simultaneously until language options are displayed.
- [2] Scroll to the desired language using the scroll keys [<>].
- [3] Press [*] to select the desired language.

Section 6: Advanced Programming

This section provides the information necessary to program all required features for a basic system as well as common applications.

6.1 How to Program

DSC recommends filling in the Programming Worksheet with the required programming information before programming the system. This will reduce the time required to program and will help eliminate errors.

To enter Installer Programming press **[*][8][Installer Code]**. The LCD keypad will display **'Enter Section'**. An error tone indicates the installer code entered is incorrect. Press **[#]** to clear any key presses and try again.



The default Installer Code is .

The Armed and Ready lights indicate programming status:

Armed Light ON	Panel waiting for 3-digit section number
Ready Light ON	Panel waiting for data to be entered
Ready Light FLASHING	Panel waiting for HEX data to be entered



You cannot enter installer programming while the system is armed or in alarm.

6.2 Programming Toggle Options

Enter the 3-digit programming section number:

- The Armed light will turn OFF and the Ready light will turn ON
- The keypad will display which toggle options are ON or OFF according to the table below

Option ON	Option OFF
# Displayed	Dash [-] Displayed

- To toggle an option ON or OFF, press the corresponding number on the keypad. The display will change accordingly
- When all the toggle options are configured correctly, press the [#] key to exit the program section
- The Ready light will turn OFF, the Armed light will turn ON and the LCD will display "Enter Section"

6.3 Programming Decimal and Hexadecimal (HEX) Data

- Enter the 3-digit programming section number
- The Armed light will turn OFF and The Ready light will turn ON
- Enter the data written in the boxes

For sections that require multiple 2 or 3 digit numbers, the keypad will double-beep after each 2 or 3 digit entry and move to the next item in the list. After the last digit in the section is entered, the keypad will beep rapidly 5 times and exit the program section. The Ready light will turn **OFF**, the Armed light will turn **ON** and the LCD will display **"Enter Section"**.

For sections that do not require data for every box (such as phone numbers) press the [#] key to exit the program section after entering all the required data. The Ready light will turn **OFF**, the Armed light will turn **ON** and the LCD will display "**Enter Section**". At any time the [#] can be pressed to exit any program section. All changes (excluding Template Programming) will be saved.

(1

In addition to the standard digits 0-9, HEX digits and special dialer functions can also be programmed.

To enter a HEX digit, press the **[*]** key to begin HEX programming. The Ready light will FLASH. Press the number corresponding to the HEX digit required. The Ready light will continue to FLASH. Press **[*]** again to return to normal decimal programming. The Ready light will turn **ON**.

Value	Enter	Telephone Dialer
HEX [A]	Press [*][1][*]	Not Supported
HEX [B]	Press [*][2][*]	Simulated [*] key
HEX [C]	Press [*][3][*]	Simulated [#] key
HEX [D]	Press [*][4][*]	Dial tone search
HEX [E]	Press [*][5][*]	Two second pause
HEX [F]	Press [*][6][*]	Not Supported

6.4 How to Exit Installer Programming:

To exit installer programming, press the [#] key when the panel is waiting for a 3-digit section number (the Armed light is **ON**). The LCD will display the user menu.

6.5 Viewing Programming

The keypad will immediately display all the information programmed when a programming section is entered. Use the arrow keys (<>) to scroll through the data being displayed. Scroll past the end of the data displayed, or press the [#] key to exit the section.

Section 7: Programming Work Sheets

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7.2 Programming Worksheets

Keypad and Function Key Programming



See "Local Keypad Programming" on page 29. for additional options.

[000] Function Key Programming

- [1] Function Key 1 Assignment
- [2] Function Key 2 Assignment
- [3] Function Key 3 Assignment
- [4] Function Key 4 Assignment
- [5] Function Key 5 Assignment

Function Key Options:

- 00 Null Key
- 01 Future Use
- 02 Future Use
- 03 Stay Arm
- 04 Away Arm
- **05** [*][9] No Entry Arm
- 06 [*][4] Chime On / Off
- 07 Future Use
- 08 [*][1] Bypass Mode

09	Future Use	

10 Future use

11 Future use

- 12 Future Use
- 13 [*][7][1] Command Output #1
- 14 [*][7][2] Command Output #2
- 15 For Future Use
- 16 [*][0] Quick Exit
- 17 [*][1] Reactivate Stay/Away Zones

*27 Disarm *29 [A]uxilliary Alarm *30 [P]anic

* Applies to Key Fobs only

See Section [804] Subsection [61]-[76]

	Key 1	Key 2	Key 3	Key 4	Key 5
Keypad Defaults	03	04	06	08	16

[001]-[002] Zone Definitions

- 00 Null Zone (Not Used)
- 01 Delay 1*
- 02 Delay 2*
- 03 Instant*
- 04 Interior*
- 05 Interior, Stay/Away*
- 06 Delay, Stay/Away*
- 07-08 Future Use
- 09 24 Hour Supervisory (Hardwired)
- 10 24 Hour Supervisory Buzzer* 11 24 Hour Burglary*
- 12 Future Use

- 13 24 Hour Gas*
- 14 24 Hour Heat*
- 15 24 Hour Medical* 16 24 Hour Panic*
- 17 24 Hour Emergency*
- 18 Future Use
- 19 24 Hour Water*
- 20 24 Hour Freeze*
- 21 Future Use
- 22 Momentary Keyswitch Arm* 23 Maintained Keyswitch Arm (Hardwired)*
- 24 Future Use

** For residential fire applications only

25 Interior Delay*

- 26 24 Hour Non-alarm
- 27-31 Future Use 32 Instant Stay/Away*
- 33-35 Future Use
- 36 24 Hr. Non-latching Tamper
- 37 Night Zone*
- 87 Delayed 24 Hr. Fire (Wireless)** 88 Standard 24 Hr. Fire (Wireless)**
- 89 Auto-verified 24 Hr. Fire (Wireless)**

- *For burglary applications only

Section Zone Default Section Zone Default Section Zone Default Section Zone Default [001] [001] [002] [002] 01 01 09 00 00 25 00 17 02 03 10 00 18 00 26 00 03 03 11 00 19 00 1 1 1 27 00 04 03 12 00 20 00 28 00 05 04 13 00 21 00 29 00 06 04 14 00 1 1 1 22 00 1 1 1 30 00 1 1 1 07 04 15 00 23 00 31 00 80 16 00 24 00 32 00 04 1 1 1

1 1

1

1

[005] System Times

Valid entries for Entry Delay are between 030-255.

030	III	Entry Delay 1	Valid entries are 001 - 255 seconds, 000 also sets time to 255 seconds
045	III	Entry Delay 2	Valid entries are 001 - 255 seconds, 000 also sets time to 255 seconds
060	lll	Exit Delay	Valid entries are 001 - 255 seconds, 000 also sets time to 255 seconds
005	lll	Bell Cut-off	Valid entries are 001 - 255 minutes, 000 also sets time to 1 minute

[006] Installer's Code

[007] Master Code

Default	Default	
5555	1234	

Programmable Output Options

00	Null PGM (Not Used)	10	System Event Output (with Event Options)
01	Residential Burglary and Fire Bell Output	11	System Tamper (all sources: zones, keypad)
02-04	Future Use	12	TLM and Alarm
05	System Armed Status	13-16	Future Use
06	Ready To Arm	17	Away Armed Status
07	Keypad Buzzer Follower	18	Stay Armed Status
08	Courtesy Pulse	19	Command Output #1 ([‡][7][1])
09	System Trouble Output (with Trouble Options)	20	Command Output #2 ([*][7][2])

[009] I/O Programming

Program Zone Definition Attributes in Sections [133-134], Program PGM Option Attributes in sections [501] - [502].

Default

10	I/O Type (Zone 33, PGM 1)
01	I/O Type (Zone 34, PGM 2)

Enter Zone Definition or PGM Definition Enter Zone Definition or PGM Definition

[012] Keypad Lockout Options

If Keypad Lockout is active, the panel cannot be disarmed with a keyswitch.

Default

000I I INumber of Invalid Codes Before Lockout (Valid entries are 000-255)000I I I ILockout Duration (in minutes)(Valid entries are 000-255)

[013] First System Options



[014]	Seco	nd System Options		
Opt	Def.	ON		OFF
1		Arm/Disarm Bell Squawk Enabled	√	Arm/Disarm Bell Squawk Disabled
2		Future Use	\checkmark	
3	 □ 	RF Jam Log After 5 Minutes		RF Jam Logs After 20 seconds
4		Aux Boost Enabled	\checkmark	Aux Boost Disabled
5		Future Use	\checkmark	
6	 □ 	Audible Exit With Urgency		Silent Exit Delay
7		Future Use	\checkmark	
8		Fire Bell is Continuous	\checkmark	Fire Bell Follows Bell Cut-off
[015]	Third	System Options		
Opt	Def.	ON		OFF
1	 I 	[F] Key Enabled		[F] Key Disabled
2		[P] Key Audible (Bell/Beeps)	√	[P] Key Silent
3		Quick Exit Enabled	\checkmark	Quick Exit Disabled
4	 □ 	Quick Arming Enabled ([*][0] and Function Keys)		Quick Arming Disabled (Function Key Requires Code)
5		Code Required for Bypassing	\checkmark	No Code Required
6		Master Code not Changeable	\checkmark	Master Code Changeable
7	 □ 	TLM Enabled		TLM Disabled
8		System Tamper Enabled	\checkmark	System Tamper Disabled
[016]	Fourth	n System Options		
Opt	Def.	ON		OFF
1		Cross Zoning Enabled	\checkmark	Police Code enabled
2	 I 	Exit Delay Restart Enabled (required for CP-01)		Exit Delay Restart Disabled
3		Blank Keypad When Not Used	\checkmark	Keypad Always Active
4		Code Required to Remove Keypad Blanking	√	No Code Required
5	 I 	Keypad Backlighting Enabled		Keypad Backlighting Disabled
6	✓ 🗋	ID WKEY Not required for Disarming		ID WKEY Required for Disarming
7		Bypass Status Displayed While Armed	\checkmark	Bypass Status Not Displayed While Armed
8	 □ 	Daylight Saving Time Enabled		Daylight Saving Time Disabled
[023]	Tenth	System Options		
Opt	Def.	ON		OFF
1		[F] Key Beeps Only	\checkmark	[F] Key Beeps and Sounds Bell
2		Future Use	\checkmark	
3		Test Transmission while Armed Only	\checkmark	Test Transmission while Armed/Disarmed
4		Test Transmission Counter in Hours	✓	Test Transmission Counter in Days
5	 ✓ □ 	Switching from Away to Stay Disabled		Away to Stay Toggle Option Permitted
6	 ✓ □ 	Future Use		
7		Trouble beeps are Silent	✓	Trouble Beeps Sound Every 10 seconds

8

Keyswitch Arms in Away Mode

✓ □ Keyswitch Arms in Stay or Away Mode

[030] Zone Loop Response Options

Opt	Def. ON	OFF
1	Zone 33 is Fast Loop Response	✓ 🔲 Zone 33 is Normal Loop Response
2	Zone 34 is Fast Loop Response	✓ 🔲 Zone 34 is Normal Loop Response
3-8	Future Use	\checkmark

[101]-[134] Zone Attributes: Options 10-13 are reserved for Future Use.

Zone Attribute Defaults

Attribute:	1	2	3	4	5	6	7	8	9	14	15	16
ON	Audible	Steady	Chime	Bypass	Force*	Swing	Tx. Delay	Cross Zn	Future Use	Future Use	Future Use	Future Use
OFF	Silent	Pulsed	No	No	No	No	No	No				
Zone Type:												
00 Null Zone	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
01 Delay 1	ON	ON	ON	ON	ON	ON	OFF	OFF				
02 Delay 2	ON	ON	ON	ON	ON	ON	OFF	OFF				
03 Instant	ON	ON	ON	ON	OFF	ON	OFF	OFF				
04 Interior	ON	ON	OFF	ON	OFF	ON	OFF	OFF				
05 Interior Stay/Away	ON	ON	OFF	ON	ON	ON	OFF	OFF				
06 Delayed Stay/Away	ON	ON	OFF	ON	ON	ON	OFF	OFF				
07 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
08 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
09 24hr Superv. (Hardwired)	OFF	ON	OFF	OFF	ON	ON	OFF	OFF				
10 24hr Superv. Buzzer	OFF	ON	OFF	ON	OFF	ON	OFF	OFF				
11 24hr Burglary	ON	ON	OFF	ON	OFF	ON	OFF	OFF				
12 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
13 24hr Gas	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF				
14 24hr Heat	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF				
15 24hr Medical	ON	ON	OFF	OFF	OFF	ON	OFF	OFF				
16 24hr Panic	ON	ON	OFF	OFF	OFF	ON	OFF	OFF				
17 24hr Emergency	ON	ON	OFF	OFF	OFF	ON	OFF	OFF				
18 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
19 24hr Water	ON	ON	OFF	OFF	OFF	ON	OFF	OFF				
20 24hr Freeze	ON	ON	OFF	OFF	OFF	ON	OFF	OFF				
21 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
22 Momentary Keyswitch Arm	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF				
23 Maintained Keyswitch (Hardwired)	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF				
24 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
25 Interior Delay	ON	ON	OFF	ON	OFF	OFF	OFF	OFF				
26 24hr Non-alarm	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF				
27-31 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
32 Instant Stay/Away	ON	ON	OFF	ON	OFF	ON	OFF	OFF				
33 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
34 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
35 Future Use	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
36 24hr Non-latching Tamper	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF				
37 Night Zone	ON	ON	OFF	ON	ON	ON	OFF	OFF				
87 Delay 24hr Fire (Wireless)	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
88 Stand. 24hr Fire (Wireless)	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF				
89 Auto-verified Fire (Wireless)	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF				

Daylight Saving Time					
[168] Set Clock Forward (I	Daylight Saving Time)	[169] Se	et Clock Back (Sta	andard Tim	e)
Default		D	efault		
010 Month	I Valid Entries 00	01-012	003 Month		Valid Entries 001-012
005 Week	I Valid Entries 00	00-005	005 Week		Valid Entries 000-005
000 Day	I Valid Entries 00	00-031	000 Day		Valid Entries 000-031
002 Hour I	I Valid Entries 00	00-023	002 Hour		Valid Entries 000-023
001 Increment I	Valid Entries 00	01-002	001 Decrement I		Valid Entries 001-002
[170] PGM Output TimerDefault 002	Valid entries are 001-25	5 seconds			
[176] Cross Zone/Police C Default 060	ode Timer Valid entries are 001-25	5 seconds/minutes			
[190] No Activity Arming P Default 001	Pre-alert Timer Valid entries are 001-25	5 minutes, 000 for no	pre-alert		
[191] No Activity Arming T Default 000	Fimer Valid entries are 001-25	5 minutes, 000 to dis	able		
[202] - [206] Zone Assignr	nents				
[202] Zone 1-8	[203] Zones 9-16	[204] Zones 17-2	4 [205] Zones	; 25-32 [;	206] Zones 33, 34
Opt Def.	Def.	Def.	Def.	ļ	Def.
1 🗸 🔲 Zone 1	✓ 🔲 Zone 9	✓ 🔲 Zone 17	🗸 🔲 Zone 2	25	Zone 33
2 ✓ 🛄 Zone 2	✓ 🔲 Zone 10	✓ 🔲 Zone 18	✓ 🔲 Zone 2	26	Zone 34
3 ✓ 🛄 Zone 3	✓ □ Zone 11	✓ □ Zone 19	✓ 🔲 Zone 2	27	Future Use
4 ✓ 🛄 Zone 4	✓ 1 Zone 12	✓ ∐ Zone 20	✓ 🛄 Zone 2	28	Future Use
5 ✓ 🛄 Zone 5	✓ [_] Zone 13	✓ ∐ Zone 21	✓ 🛄 Zone 2	29	Future Use
	✓ □ Zone 14	✓ ☐ Zone 22	✓ ☐ Zone :	30	Future Use
	✓ <u> </u>	✓	✓ Zone	31	
				52	Future Ose
Communications					
[301] First Telephone Num	nber (32 Digits)				
_ D				<u> </u>	
[302] Second Telephone N	Number (32 Digits)				
_ D				<u> </u>	
[303] Third Telephone Nur	mber (32 Digits)				
_ D				<u> </u>	
[304] Call Waiting Cancel	String (6 Digits) - This f	feature is activated in	Section 382 Opt 4		
	ult = DB70EF Program ur	nused digits with Hex	: F		
		-			
All six digits mu	ist be entered for changes to	be saved in Section [3	04] and Section [310]	. Fill unused a	ligit spaces with 'F'.

Account Code

Enter a 6-digit account number for the system account code. Only SIA supports 6-digit account codes. If the last two digits of the account code are FF, the panel will only use the first four digits.

Section [310] System Account Code Default [FFFFFF]

Reporting Codes



All Reporting Codes are defaulted 'FF' unless indicated otherwise.

[320]-[322] Alarm Reporting Codes, Zones 01-34 (All default values are 3A)

Section								
[320]	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05	Zone 06	Zone 07	Zone 08
	3 _A_							
	Zone 09	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
	3 _A_							
[321]	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
	3 _A_							
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
	3 _A_							
[322]	Zone 33	Zone 34						
	3 _A_	_3_ _A_						

[324]-[326] Alarm Restoral Reporting Codes, Zones 01-34

Section

[324]	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05	Zone 06	Zone 07	Zone 08
	3 _A_							
	Zone 09	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
	3 _A_							
[325]	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
	3 _A_							
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
	3 _A_							
[326]	Zone 33	Zone 34						

|_3_|_A_| _3_A_|

[328] Miscellaneous Alarm Reporting Codes

- |_2_|_1_| Duress Alarm
- Opening After Alarm _5_8_
- _5_9_ Recent Closing
- |____| Future Use
- ____ Future Use
- |_4_|_A_| Cross Zone/Police Code Alarm
- **Burglary Not Verified** |_7_|_8_|
- Alarm Cancelled |_A_|_6_|

[329] Priority Alarm and Restoral Reporting Codes

- |_1_|_A_| Keypad [F] Fire Alarm
- _A__A_| Keypad [A] Auxiliary Alarm
- |_2_|_A_| Keypad [P] Panic Alarm
- Future Use
- |_1_|_A_| Keypad [F] Fire Restoral
- Keypad [A] Auxiliary Restoral |_A_|_A_|
- $|_2|_A_|$ Keypad [P] Panic Restoral
- Future Use

[330]-[332] Tamper Reporting Codes, Zones 01-34

Section

[330]	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05	Zone 06	Zone 07	Zone 08		
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_		
	Zone 09	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16		
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_		
[331]	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24		
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_		
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32		
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_		
[332]	Zone 33	Zone 34								
	4 _4_	_4_ _4_								
[334]-[336]	[334]-[336] Tamper Restoral Reporting Codes, Zones 01-34									

0	
Section	

[334]	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05	Zone 06	Zone 07	Zone 08
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_
	Zone 09	Zone 10	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_
[335]	Zone 17	Zone 18	Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_
	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
	4 _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_	_4_ _4_
[336]	Zone 33	Zone 34						
	4 _4_	_4_ _4_						

[338] Miscellaneous Tamper Reporting Codes

- |_4_|_5_| System Tamper
- |_4_|_5_| System Tamper Restoral
- |_6_|_1_| Keypad Lockout

[339] Closing (Arming) Reporting Codes, Access Codes 1-16

Section

[339]	Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7	Code 8
	A _1_	_0_ _0_	_5_ _6_	_A_ _A_	_7_ _4_			
	Code 9	Code 10	Code 11	Code 12	Code 13	Code 14	Code 15	Zone 16

[341] Miscellaneous Closing (Arming) Reporting Codes

____ Closing by Master Code 40

- _____Zone Bypass
- ____ Partial Closing
- Special Closing

Exit Fault

[342] Opening (Disarming) Reporting Codes, Access Codes 1-16

Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7	Code 8
A _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_
Code 9	Code 10	Code 11	Code 12	Code 13	Code 14	Code 15	Zone 16
A _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_	_A_ _1_
	Code 1 _A_ _1_ Code 9 _A_ _1_	Code 1 Code 2 _A_ _1_ _A_ _1_ Code 9 Code 10 _A_ _1_ _A_ _1_	Code 1 Code 2 Code 3 _A_ _1_ _A_ _1_ _A_ _1_ Code 9 Code 10 Code 11 _A11_ _A11_ _A11_	Code 1 Code 2 Code 3 Code 4 _A_ _1_ _A_ _1_ _A_ _1_ _A_ _1_ Code 9 Code 10 Code 11 Code 12 _A1_1_ _A_ _1_ _A_ _1_ _A_ _1_	Code 1 Code 2 Code 3 Code 4 Code 5 _A 1_ _A 1_ _A 1_ _A 1_ _A 1_ Code 9 Code 10 Code 11 Code 12 Code 13 _A11_ _A11_ _A11_ _A11_ _A11_	Code 1 Code 2 Code 3 Code 4 Code 5 Code 6 _A 1_ _A 1_ _A 1_ _A 1_ _A 1_ _A 1_ Code 9 Code 10 Code 11 Code 12 Code 13 Code 14 _A11_ _A11_ _A11_ _A11_ _A11_	Code 1 Code 2 Code 3 Code 4 Code 5 Code 6 Code 7 _A 1_ Code 9 Code 10 Code 11 Code 12 Code 13 Code 14 Code 15 _A11_ _A11_ _A11_ _A11_ _A11_ _A11_

[344] Miscellaneous Opening (Disarming) Reporting Codes

|_A_|_1_| Opening by Master Code 40

|_A_|_A_| Special Opening

[345] Maintenance Alarm Reporting Codes

- |_A_|_2_|
 Battery Trouble Alarm

 |_A_|_1_|
 AC Failure Trouble Alarm
- _____ Future Use
- |_7_|_3_| Fire Trouble Alarm
- Auxiliary Power Supply Trouble Alarm
- Future Use
- |_A_|_A_| General System Trouble
- I____ Future Use

[347] Miscellaneous Maintenance Reporting Codes

- |_5_|_4_| Telephone Number 1 FTC Restoral
- |_5_|_4_| Telephone Number 2 FTC Restoral
- I____I Future Use
- DLS Lead IN
- DLS Lead OUT
- General Zone Fault Alarm
- |_8_|_0_| General Zone Fault Restoral
- |_8_|_0_| Delinquency Reporting Code
- |_8_|_4_| General Zone Low Battery Alarm
- |_8_|_4_| General Zone Low Battery Restoral
- |___| Installer Lead Out
- Installer Lead In

[346] Maintenance Restoral Reporting Codes

Battery Trouble Restoral _A_2_ AC Failure Trouble Restoral |_A_|_1_| Future Use Fire Trouble Restoral _7_3_ Auxiliary Power Supply Trouble Restoral _1_2_ _5__1_ **TLM Restoral** General System Trouble Restoral |_A_|_A_| Future Use

[348] Test Transmission Reporting Codes

 |_A_|_7_|
 Walk Test End

 |_A_|_7_|
 Walk Test Begin

 |__|__|
 Future Use

 |_A_|_2_|
 Periodic Test Transmission

 |_A_|_1_|
 System Test

[350] Communicator Format Options

Default

- 03
 I_____
 First Telephone Number

 03
 I_____
 Second Telephone Number

 Third Telephone Number follows format of First Telephone Number
 - 01 20 BPS, 1400 HZ handshake04 SIA FSKRefer to Appendix B: Communicator Format Options on page 51 for details.02 20 BPS, 2300 HZ handshake05 Pager03 DTMF CONTACT ID06 Residential Dial

Call Direction Options

[351] Alarm/Restore Communicator Call Directions

Section	Option 1	Option 2	Option 3-8
	First Telephone	Second Telephone	Not Used
	Number (Default ON)	Number (Default)	(Default OFF)
[351]	LI	LI	LI

[359] Tamper/Restore Communicator Call Directions

Section	Option 1	Option 2	Option 3-8
	First Telephone	Second Telephone	Not Used
	Number (Default ON)	Number (Default)	(Default OFF)
[359]	<u> </u>	II	<u> </u>

[367] Opening/Closing Communicator Call Directions

Section	Option 1	Option 2	Option 3-8
	First Telephone	Second Telephone	Not Used
	Number (Default ON)	Number (Default)	(Default OFF)
[367]	<u> </u>	<u> </u>	<u> </u>

[375] Sys	tem Maintenance Co	mmunicator Call Direction	ns	
Section	Option 1 First Telephone Number (Default ON)	Option 2 Second Telephone Number (Default)	Option 3-8 Not Used (Default OFF)	
[375]	L1	L1	L1	
[376] Sys	tem Test Transmissio	ons Communicator Call D	irections	
Section	Option 1 First Telephone Number (Default ON)	Option 2 Second Telephone Number (Default OFF)	Option 3-8 Not Used (Default OFF)	
[376]	L1	L1	L1	
[377] Cor Default	nmunication Variable	S		
003	1_ Swinger Shu	tdown (Alarms and Rest)	001-014 Transmissions	, 000=disabled
003	Swinger Shu	tdown (Tampers and Rest)	001-014 Transmissions	, 000=disabled
003	Swinger Shu	tdown (Maint. and Rest)	001-014 Transmissions	, 000=disabled
000	Communica	tion Delay	000-255 seconds	
030	L I I AC Failure C	ommunication Delay	001-255 minutes/hour	s, 000=disabled †
010	I I I I TLM Trouble	Delay	003-255 seconds x3 (e.	g.,003 = 9 seconds)
007	I I I Test Transmis	ssion Cycle (land line)	001-255 days/hours ††	
000	LII Future Use			
007	Zone Low Ba	attery Transmission Delay	000-255 days	
030	Delinguency	Transmission Cycle	000-255 days/hours ††	† , 000=disabled
000	5_ Communica	tions Cancelled Window	000-255 minutes	

Dependent on programming in section [382], option [6].
Dependent on programming in section [023], option [4].
Dependent on programming in section [380], option [8].

[378] Test Transmission Time of Day Default

[380] First Communicator Options

Opt	Def.	ON	OFF
1	✓ 🗋	Communications Enabled	Communications Disabled
2	✓ 🗋	Restorals on Bell Time-out	Restorals Follow Zones
3		Pulse Dialing	✓ ☐ DTMF Dialing
4		Future Use	\checkmark
5		Future Use	\checkmark
6	✓ 🗋	Alternate Dial (1st & 3rd)	Call 1st Number, Backup to 3rd
7		Future Use	\checkmark
8		Delinquency Follows Zone Activity (Hours)	✓ ☐ Delinquency Follows Arming (Days)

[381] Second Communicator Options

Opt	Def.	ON			OFF
1		Opening After Alarm Keypad Ringback Enabled	✓		Disabled
2		Future Use	✓		I
3		SIA Uses Programmed Reporting Codes	✓		SIA Uses Automatic Reporting Codes
4		Closing Confirmation Enabled	✓		Closing confirmation Disabled
5-6		Future Use	✓		I
7		Contact ID Uses Programmed Reporting Codes	✓		Contact ID Uses Automatic Reporting Codes
8		Future Use	✓		I
[382]	Third (Communicator Options			
Opt	Def.	ON			OFF
1		Contact ID Partial Closing Identifier is "5"			✓ ☐ Contact ID Partial Closing Identifier is "4"
2		Alarm Communications Enabled During Walk Test*			✓ □ Alarm Communications Disabled During Walk Test
3	✓ 🗋	Communication Cancelled Message Enabled (ON for SIA	CP-	01)	Communication Cancelled Message Disabled
4		Call Waiting Cancel Enabled**			✓ ☐ Call Waiting Cancel Disabled
5		Future Use			\checkmark
6		AC Failure Transmission Delay is in Hours			✓ ☐ AC Failure Transmission Delay is in Minutes
7		Number of Dialing Attempts is 1 for Residential Dial			✓ ☐ Residential Dialing Attempts is 5
8		Future Use			 ✓ □
** A (Call Waitin	g Cancel on a non-Call Waiting line will prevent successful conne	ectio	on to	the central station.
DLS	Down	loading			
0nt	Dof				OFF
		Answering Machine/Double Call Enabled			
י ר		Lisor Can Enable DLS Window			Answering Watchine/Double Call Disabled
2					
2					
4 5					
с С					
0					
/					
8		Future Use			× 🔟
[402]	DLS D	ownloading Telephone Number (32 Digits)			
D_					
[403]	-[404] [DLS Downloading Access Code / Panel ID Code	e (E	inte	er 6 Hexadecimal Digits)
[4	403] Dov	vnloading Access Code [404] Panel ID Co	de		SCW004E Default - 004E00/004E00
Ļ		-++++++++++++++++			>CVV904> Delault = 304300/304300

[405] Double Call Timer

Default 030 L____ Valid entries are 001-255, (000 to disable)

[406] Number of Rings To Answer On

Default 000 I I Valid entries are 000-009, (000 to disable)

[499] Initiate PC-Link Downloading

Enter [499] [Installer Code][499]

[501]-[502] PGM Output Attributes

Program only the following attributes for the PGM options listed. All others will be ignored.

PGM options are programmed in Section [009].

PGM Attribute Defaults (Y = Attribute ON; N = Attribute OFF):

Attribute:	1	2	3	4	5	6	7	8
ON	Not used	Not used	True Output	Follows Timer	Code Req.	Not used	Not used	Not used
OFF	—	—	Inverted	On / Off	No Code Req.	—	—	_
PGM Option								
[00] Null PGM (Not Used)								
[01] Residential Burglary / Fire Bell Output			Y					
[05] System Armed Status			Y					
[06] Ready To Arm			Y					
[07] Keypad Buzzer follows PGM			Y					
[08] Courtesy Pulse			Y					
[09] System Trouble (See Table Below)	Y	Y	Ν	Y	Ν	Ν	Ν	Ν
[10] System Event (See Table Below)	Y	Y	Y	Y	Y	Y	Y	Ν
[11] System Tamper (all sources, zones, keypad, modules)			Y	Ν				
[12] TLM and Alarm			Y					
[17] Away Armed Status			Y					
[18] Stay Armed Status			Y					
[19] Command Output #1, [#][7][1]			Y	Y	Y			
[20] Command Output #2, [#][7][2]			Y	Y	Ν			

Attribute:	1	2	3	4	5	6	7	8
ON	Serv Req Evnt.	AC Fail.	TLM Fault	FTC	Zone Fault	Zone Tamper	Zone Low Batt	Loss of Clock
OFF	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
PGM Option								
[9] System Trouble	Y	Y	Y	Y	Y	Y	Y	Y

Attribute	:			1	2	3	4	5	6	7	8
			ON	Burg Event	Fire Event	Panic Even	t Medical Event	Supervisory Event	Priority Event	Duress Event	Follows Timer
			OFF	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Latched
PGM Option	n										
[10] System	Event			Y	Y	Ν	Y	Ν	Ν	Ν	Ν
Section I	PGM #	Output Type*		1	2	3	4	5	6	7	8
Main Boa	rd	J 1 ²									
[501]	1	()	L	I	<u> </u>					LI	LI
[502]	2	()	L	I	<u> </u>	<u> </u>		L]	L]	L]	<u> </u>
*Record h	Record here based on programming in Section [009].										

INTERNATIONAL PROGRAMMING

[700]	Automa	itic Clock Adjust	
Defau	lt = 60 L_	I Valid Entries 01-99 Seconds	
[701]	First Int	ernational Options	
Opt	Def.	ON	OFF
1	✓ 🗋	50 Hz AC	60 Hz AC
2		Time Base - Internal Crystal	✓ 🔲 Time Base - AC Line
3		AC/DC Arming Inhibit Enabled	✓ ☐ AC/DC Arming Inhibit Disabled
4		All System Tampers Require Installer Reset	✓ ☐ All System Tampers Follow Restoral
5		6-digit User Access Codes	✓ ☐ 4-digit User Access Codes
6		Busy Tone Detection Enabled	✓ ☐ Busy Tone Detection Disabled
7-8		Future Use	✓ □
[702]	Second	International Options	
Opt	Def.	ON	OFF
1	I	Pulse Dialing Make/Break Ratio is 33/67	Pulse Dialing Make/Break Ratio is 40/60
2	I	Force Dialing Enabled	Force Dialing Disabled
3		Future Use	\checkmark
4		1600Hz Handshake	✓ ☐ Standard Handshake
5		ID Tone Enabled	✓ ☐ ID Tone Disabled
6		2100 Hz ID Tone	✓ 🔲 1300 Hz ID Tone
7-8		Future Use	✓ □

[703] Delay Between Dialing Attempts

Default = 003 [_____] Valid Entries are 000-255 Seconds (Entry + 5 seconds)

[804] Wireless programming

Wireless Zone Programming

Zone	Sub Section	Serial Number	Zone	Sub Section	Serial Number
1	[01]	·····	17	[17]	
2	[02]	·····		[18]	
3	[03]	·····	19	[19]	
4	[04]	·····	20	[20]	
5	[05]	·····	21	[21]	
6	[06]	·····	22	[22]	
7	[07]	·····	23	[23]	
8	[08]	·····	24	[24]	
9	[09]	·····	25	[25]	
10	[10]	·····	26	[26]	
11	[11]		27	[27]	
12	[12]		28	[28]	
13	[13]	·····	29	[29]	
14	[14]			[30]	
15	[15]		31	[31]	
16	[16]		32	[32]	

Wireless Key Programming

Wireless Key Function Key Programming

Key#	Sub Section	Serial Number	Sub Section	Key 1 Default 03	Key 2 Default 04	Key 3 Default 27	Key 4 Default 30
1	[41]	······	[61]		Ll		
2	[42]	·····	[62]				
3	[43]	·····	[63]				
4	[44]		[64]			Ll	
5	[45]	·····	[65]	L			
6	[46]		[66]			Ll	
7	[47]	·····	[67]	L			
8	[48]	·····	[68]				
9	[49]		[69]				
10	[50]	·····	[70]				
11	[51]		[71]				
12	[52]		[72]				
13	[53]		[73]	L	L	L	L
14	[54]		[74]	L	L	L	L
15	[55]		[75]				
16	[56]		[76]	L	L	L	L
				See Function	Key Options or	pages 15 and	32

Wireless Supervisory Window

Sub Section Entry x 15 minutes [81]

Default 10 |_____|

(i.e., ^{EU}10 x 15 min. NA96 x 15 min.)

Value = Entry x15 minutes, Valid entries are 4 - 96 (1Hr - 24Hr)

[82]-[85] Zone Transmitter Supervision

	[82]	Zo	ne 1-8	[83]	Zones 9-16	[84]	Zones 17-24	[85]	Zones 25-32
Opt	Def.			Def.		Def.		Def.	
1	✓ 🗌	Zo	ne 1	✓ 🗋	Zone 9	 □ 	Zone 17	✓ 🗌	Zone 25
2	✓ 🗋	Zo	ne 2	✓ 🗋	Zone 10	 □ 	Zone 18	✓ 🗌	Zone 26
3	✓ 🗋	Zoi	ne 3	✓ 🗋	Zone 11	 I 	Zone 19	✓ 🗌	Zone 27
4	✓ 🗋	Zoi	ne 4	✓ 🗋	Zone 12		Zone 20	✓ 🗌	Zone 28
5	✓ 🗋	Zoi	ne 5	✓ 🗋	Zone 13	 I 	Zone 21	✓ 🗌	Zone 29
6	✓ 🗋	Zoi	ne 6	✓ 🗋	Zone 14	 I 	Zone 22	✓ 🗌	Zone 30
7	✓ 🗋	Zoi	ne 7	✓ 🗋	Zone 15		Zone 23	✓ 🗌	Zone 31
8	✓ 🗋	Zoi	ne 8	✓ 🗋	Zone 16	□	Zone 24	✓ 🗆	Zone 32
[90] (Genera	al W	/ireless Opti	ons					
Opt	I	Def	ON				OFF		
1-6			Future Use			✓ 🗆			
7	\checkmark		RF Jam Disab	ed			RF Jam Enabled		
8	\checkmark		Global Module	Placem	ent Test		Individual Modul	e Place	ement Test

Special Installer Functions

[898] Wireless Device Enrollment (See Section 2)

[899] Template Programming (See Section 3)

[900] Panel Version Displayed

<u>IIII</u> Not Programmable (e.g. Ver. 1.0 = 0100)

[904] Wireless Module Placement Test

[990] Installer Lockout Enable

- Enter [990][Installer Code][990]

[991] Installer Lockout Disable

- Enter [991][Installer Code][991]

[996] Restore Wireless Device Default Programming

- Enter [996][Installer Code][996]

[998] Restore Control Panel Default Programming

- Enter [998][Installer Code][998]

[999] Restore System Default Programming

- Enter [999][Installer Code][999]

Local Keypad Programming

Enter [*] when in Installer Programming to Access Keypad programming

[001]-[034] Label Programming (Zone 1-34)

Default

Zone	Sub Sect.	Z O N E X X	Zone	Sub Sect.	XX = 01 - 34
1	[001]		18	[018]	
2	[002]		19	[019]	
3	[003]		20	[020]	
4	[004]		21	[021]	
5	[005]		22	[022]	
6	[006]		23	[023]	
7	[007]		24	[024]	
8	[008]		25	[025]	
9	[009]		26	[026]	
10	[010]		27	[027]	
11	[011]		28	[028]	
12	[012]		29	[029]	
13	[013]		30	[030]	
14	[014]		31	[031]	
15	[015]		32	[032]	
16	[016]		33	[033] -	
17	[017]		34	[034]	

[065] Fire Alarm Label

Default	
F I R E _ Z O N E	
[066] Fail to Arm Event Message	
Default	
S Y S T E M _ H A S	
F A I L E D _ T O _ A R M	
[067] Alarm When Armed Event Message	
Default	
A L A R M _ O C C U R R E D	······································
W H I L E _ A R M E D < >	
[068] Command Output #1 Label	
Default	
C O M M A N D _ O / P _ 1 _	
[069] Command Output #2 Label	
Default	
C O M M A N D _ O / P _ 2 _	

[074] First Keypad Options

[]		offen offenene			
Opt	Def.	ON			OFF
1		Future Use	√		
2	✓ 🗋	[A] Key Enabled			[A] Key Disabled
3	□	[P] Key Enabled			[P] Key Disabled
4	 □ 	Quick Arm Prompt ON			Quick Arm Prompt OFF
5		Quick Exit Prompt ON	√		Quick Exit Prompt OFF
6	□	Bypass Options Prompt ON			Bypass Options Prompt OFF
7	□	User Initiated Call-up Prompt ON			User Initiated Call-up Prompt OFF
8	□	Hold [P]anic Key Prompt ON			Hold [P]anic Key Prompt OFF
[075]	Secon	d Keypad Options			
Opt	Def.	ON			OFF
1	□	Local Clock Display Enabled			Local Clock Display Disabled
2		Local Clock Displays 24 Hr. Time	√		Local Clock Displays AM/PM
3	 □ 	Auto Alarm Scroll Enabled			Auto Alarm Scroll Disabled
4	 □ 	Language Selection Accessible From Any Menu			Language Selection Accessible From Installer Only
5		Power LED Enabled	\checkmark		Power LED Disabled
6	□	Power LED indicates AC Present			Power LED indicates AC Absent
7	□	Alarms are Displayed while Armed			Alarms are NOT Displayed while Armed
8		Auto Scroll Open Zones Enabled	\checkmark		Auto Scroll Open Zones Disabled
[076]	Third H	Keypad Options			
Opt	Def.	ON			OFF
1	 □ 	Chime Enabled for Zone Openings			Chime Disabled for Zone Openings
2	 □ 	Chime Enabled for Zone Closings			Chime Disabled for Zone Closings
3-8		Future Use	√		
[077]	Progra	mmed LCD Message			
[078]	Progra	mmed LCD Message Duration			
[204]		Default 003 (Valid entries are 000-255, 000=Unlimited	d Me	ssage	Display)
[201] [.]	-[234] L				055
Ορτ		ON 6 Roops			OFF Disabled
י כ		Ring Ring Sound	./		Disabled
2 2		Ding Dong Sound	• ./		Disabled
د			• ./		Disabled
+ 5_2			• ./		Disabica
0-0			•		

[996] Reset Programmable Labels to Factory Defaults

Section 8: Programming Descriptions

The following is a brief description of the features and options available in the control panel.

Section [000] Keypad Function Key Programming

Stay Arm: See Stay Arm on page 10

Away Arm: See Away Arm on page 10

No Entry Arm: See [*][9] on page 12

Chime On/Off: See [*][4] on page 11

Command Output #1: See [*][7][1] on page 12

Bypass: See **[*]**[1] on page 10

Null Key: Program non functioning keys with this option

Option

[00]

[03]

[04]

[05]

[06]

[08]

[13]

[00]

[01]

[02] [03]

[04]

[05]

[06]

[09]

[10] [11]

[12]

[13]

[14]

[15]

[16]

[17]

[18]

[19]

Description

The five function keys can be reprogrammed with following functions. See Keypad Function Key Programming on page 15 for defaults.

[14]

Option

- Command Output #2: See [*][7][1] on page 12
- [16] Quick Exit: See [*][0] on page 12
- [17] Reactivate Stay/Away Zones: See [*][1] on page 10
- *[27] Disarm: See Disarm on page 10
- *[29] [A]ux Alarm: Same as [A] key
- *[30] [P]anic: Same as [P] key.

Description

*Applies to Key Fobs only (See Section [804] Subsection [61]-[76])

Section [001]-[002] Zone Definitions Option Description Null Zone: Zone not used. Delay 1: When armed, provides entry delay when violated (follows Entry Delay 1). Delay 2: When armed, provides entry delay when violated (follows Entry Delay 2). Instant: When armed, instant alarm when violated. Interior: When armed, instant alarm if the zone is violated first, will follow entry delay if entry delay is active. Interior Stay/Away: Similar to 'Interior' except panel will auto-bypass the zone if armed in the Stay mode. Delay Stay/Away: Similar to 'Delay 1' except panel will auto-bypass the zone if armed in the Stay mode. [07]-[08] **Future Use** 24-Hour Supervisory (Hardwired): Instant Alarm, silent at default. 24-Hour Supervisory Buzzer: Instant alarm, panel will activate keypad buzzer instead of bell output. 24-Hour Burglary: Instant alarm when violated, audible alarm at default. **Future Use** 24-Hour Gas: Instant alarm when violated, audible alarm at default. 24-Hour Heat: Instant alarm when violated, audible alarm at default (also known as high-temp). 24-Hour Medical: Instant alarm when violated, audible alarm at default. 24-Hour Panic: Instant alarm when violated, audible alarm at default. 24-Hour Emergency: Instant alarm when violated, audible alarm at default. **Future Use** 24-Hour Water: Instant alarm when violated, audible alarm at default (also known as flood). 24-Hour Freeze: Instant alarm when violated, audible alarm at default (also known as low-temp). **Future Use** Momentary Keyswitch Arm: Arms or disarms the system when violated. Maintained Keyswitch Arm: Arms system when violated, disarms system when restored. For Future Use Interior/Delay: Function as an Interior zone when armed in Away mode, and as a Delay zone when armed in the Stay mode. 24-Hour Non-Alarm: Zone will NOT create an alarm. Can be used with chime to identify a specific event. **Future Use** Instant Stay/Away: Similar to 'Instant' except panel will auto-bypass the zone if armed in the Stay mode. [33]-[35] **Future Use**

[36] 24-Hour Non-Latching Tamper: Instant tamper condition when violated. Active in armed and disarmed state.

[23]

- [24]
- [20]
- [21]
- [22]

- [25]
- [26]
- [27]-[31]

[32]

- [37] Night Zone: Functions like Interior Stay/Away (05) but will remain bypassed if the user presses [*][1] to re-activate Stay/Away zones when armed in the Stay mode.
- [87] Delayed 24-Hour Fire (Wireless): Instant audible alarm when violated, communication delayed 30 seconds. If the alarm is acknowledged during the time delay (by pressing a key), the alarm will be silenced for 90 seconds and then the cycle is repeated. If the alarm is not acknowledged the alarm will latch and communicate after the 30 second delay.
- [88] Standard 24-Hour Fire (Wireless): Instant Alarm and Communication when violated.
- [89] Auto-verified 24-Hour Fire (Wireless): When the detector begins to sound, the system will monitor for a restoral transmission. If a restoral is not received within 40 seconds, the system will go into alarm and communicate with the central station. If a restoral is received within the 40 second period and a second detector of this zone type begins to sound within 80 seconds of the restoral, the system will also go into alarm and communicate with the central station.

Section [005] System Times

After entering Section [005], program the Entry Delay 1, Entry Delay 2 and Exit Delay for the system. Entries are in seconds. Program the Bell Cut-Off Time. Valid entries are in minutes.

Section [006] Installer Code

The default Installer Code is [] or [] if 6-Digit Access Codes is enabled.

Section [007] Master Code

The default Master Code is [1234] or [123456] if 6-digit Access Codes is enabled.

Section [009] I/O Programming (Zones/PGMs)

The alarm system has two on-board terminals that are programmable as hardwired zones (Zones 33 and 34) or low current PGMs (PGM1 and PGM2). Enter the 2-digit zone definition or 2-digit PGM option required based on I/O type selected in Section [013] Opt [1] & [2].

PGM Output Options:

Option	Description
[00]	Null PGM: Not Used.

- [01] **Residential Fire and Burglary:** Output will activate (steady for burglary, pulsing for fire) if an alarm occurs.
- [02]-[04] Future Use
 - [05] System Armed Status: Output will activate when the system is armed.
 - [06] Ready to Arm: Output will activate when system is in the Ready state (Ready light ON).
 - [07] Keypad Buzzer Follows Output: Activates when the keypad buzzer is activated for 24 hour Supervisory, Zone Alarms, Entry Delay, Audible Exit Delay, No Activity Arming Pre-alert, Audible Exit Fault and Door Chime.
 - [08] **Courtesy Pulse:** Output will activate during entry/exit delay when the system is armed will remain active for an additional 2 minutes after the entry or exit delay expires.
 - [09] System Trouble Output (with trouble options): Output will activate when any selected trouble condition is present.
 - [10] System Event Output (with trouble options): Output will activate when any selected condition occurs. Output can be programmed to follow timer (See "Section [170] PGM Output Timer" on page 37).
 - [11] System Tamper: Output will activate when any tamper condition is present (i.e., zones).
 - [12] TLM and Alarm: Output will activate if a telephone line trouble is present and then an alarm occurs.
- [13]-[16] Future Use
 - [17] Away Armed Status: Activates when the system is armed in Away mode.
 - [18] Stay Armed Status: Activates when system is armed in Stay mode.
 - [19] Command Output 1:Activates when a [*][7][1] command is entered on the keypad Command can be programmed to require a valid access code and output can be programmed to activate for the time programmed in Section [170] or programmed to latch.
 - [20] Command Output 2: Activates when a [*][7][2] command is entered on the keypad Command can be programmed to require a valid access code and output can be programmed to activate for the time programmed in Section [170] or programmed to latch.

Section [012] Keypad Lockout

The system can be programmed to 'lockout' the keypad if a series of incorrect user or installer codes are entered. When lockout is active, the system will emit a steady 2-second error tone when a key is pressed. Program the Number of Invalid Codes Before Lockout with the desired number. Valid entries are from [000] to [255]. Program data [000] to disable the feature. The keypad will remain locked out for the number of minutes programmed for the Lockout Duration. Valid entries are from [000] to [255].

Section [013] First System Options

Option Description

- [1] ON: Hardwired Zone 33 enabled. OFF: PGM1 Output enabled. Program Zone Definition or PGM option in Section [009].
- [2] ON: Hardwired Zone 34 enabled. OFF: PGM2 Output enabled. Program Zone Definition or PGM option in Section [009].
- [3]-[5] Future Use
 - [6] ON: Audible Exit Fault Enabled. If a delay zone is not secured correctly and not force-armed, at the end of the exit delay, the system will go into entry delay and turn ON the bell output.
 - OFF: Audible Exit Fault Disabled. The keypad will sound the entry delay through the keypad.
 - [7] ON: Event Buffer Follows Swinger Shutdown. The system will NOT log additional alarms for a zone that has reached the swinger shutdown threshold. OFF: Event Buffer Logs Past Shutdown. All zone alarms will be logged.
 - [8] ON: Temporal Three Fire Signal Enabled. Temporal Three Fire Signal is used to annunciate fire alarms (½ second ON, ½ second OFF, ½ second ON, ½ second ON, 1 ½ second OFF).

OFF: Standard Pulsed Fire Signal. The system will pulse the bell output (1 second ON, 1 second OFF).

Section [014] Second System Options

- **Option Description**
 - [1] **ON: Arm/Disarm Bell Squawk Enabled.** The system squawks the bell output once when the system is armed, twice when disarmed and 3 times when disarming with alarms in memory.
 - OFF: Arm/Disarm Bell Squawk Disabled. The bell output does not activate.
 - [2] Future Use
 - [3] ON: RF Jam Logs after 5 Minutes. The system logs an RF Jam trouble condition if the condition is present for 5 minutes. OFF: RF Jam Logs after 20 Seconds. The system logs the trouble condition after 20 seconds.
 - [4] ON: Aux Boost Enabled: When the system is in Power Save mode (AC Trouble) Aux+ output voltage is regulated 12VDC. OFF: Aux Boost Disabled: Aux+ output voltage is not regulated.
 - [5] Future Use
 - [6] ON: Audible Exit with Urgency. The system will beep the keypad once every second, and 3 times a second during the last 10 seconds, during exit delay when the system is armed with a user code or armed in the Away mode. OFF: Silent Exit Delay. The keypad will not beep.
 - [7] Future Use
 - [8] ON: Fire Bell is Continuous. The bell output will not time out if a fire alarm occurs. The User must turn off the bell by entering a valid user code. OFF: Fire Bell follows Bell Cut-off. The bell output will time out normally.

Section [015] Third System Options

Option Description

- [1] ON: [F] Key Enabled. The keypad [F] fire emergency key will be enabled. OFF: [F] Key Disabled. The keypad [F] fire emergency key will be disabled.
- [2] ON: [P] Key Audible (Bell/Beeps). The keypad [P] panic emergency will generate 3 ack beeps and the bell will activate for the duration of the BTO or until a code is entered (keypad will display "System in Alarm"). OFF: [P] Key Silent. The keypad [P] emergency key will generate a silent panic alarm. The bell will not sound and the keypad will not display "system in alarm".
- [3] ON: Quick Exit Enabled. the Quick Exit feature will be enabled. OFF: Quick Exit Disabled. the Quick Exit feature will be disabled.
- [4] ON: Quick Arming Enabled. The Quick Arming [*][0] feature will be enabled.OFF: Quick Arming Disabled. Quick Arming [*][0] feature will be disabled.

If this feature is disabled, a valid user code must be entered after the Stay or Away function buttons are pressed.

- [5] ON: Code Required for Bypassing. A valid user code must be entered after pressing [*][1] to access the Bypass feature. OFF: No Code Required. A user code is not required for bypassing.
- [6] ON: Master Code Not Changeable. The Master Code (user code 40) can only be changed in Installer Programming. OFF: Master Code Changeable. The Master Code can be changed using the User Programming [*][5] command.
- [7] **ON: TLM Enabled.** The system supervises the telephone line and displays a trouble if disconnected. **OFF: TLM Disabled.** The telephone line is not supervised.
- [8] ON: System Tamper Enabled. The panel will monitor the physical tamper switch, if the system is taken off the wall, or the front housing is removed, a System Tamper Alarm will be generated.
 OFF: System Tamper Disabled: The panel will not monitor the physical tamper switch.

Section [016] Fourth System Options

Option Description

[1] ON: Cross Zoning Enabled. ON: When an alarm is detected on a zone (with the Cross Zone attribute enabled), a timer is started. The alarm is not transmitted and the bell output is not activated unless a second cross zone enabled zone is violated before the Cross Zone timer times out.

OFF: Police Code Enabled. the system reports all alarms normally and logs and transmits a Police Code reporting code if a second zone alarm is detected during the armed period.

[2] ON: Exit Delay Restart Enabled. A One-time Exit Delay Restart on Delay zone re-entry is enabled. If a Delay zone (Delay 1 or 2 only) is violated and restored once during the Exit Delay, it is considered an exit. If a delay zone is violated again it is considered a re-entry. This option will restart the exit delay. Further violations and restores of delay zones will not restart the exit delay. OFF: Exit Delay Restart Enabled. One Time Exit Delay Restart on Delay zone re-entry is disabled. Delay zone violations and restores will not restart the exit delay.



The exit delay can only be restarted once. This includes restarts from Away function keys. If the Exit Delay was silent, the additional Exit time should remain silent and will be double the programmed Exit Time.

- [3] ON: Blank Keypad when not Used. The keypad blanks (no indicator lights) if a key is not pressed for 30 seconds. OFF: Keypad Always Active. The keypad does not blank.
- [4] ON: Code Required to Remove Keypad Blanking. A valid user code must be entered to restore normal keypad operation. OFF: No Code Required. Pressing any key will return the keypad to normal operation.
- [5] ON: Keypad Backlighting Enabled. Backlighting is enabled for LCD and Keys. OFF: Keypad Backlighting Disabled. Backlighting is disabled for LCD and Keys.
- [6] ON: Identified WLS Keys Not Required for Disarming. The panel will accept the disarm keycode from an unidentified Wireless Key, allowing disarming without an associated user code programmed.
 OFF: Identified WLS Keys Required for Disarming. The panel will NOT accept the disarm keycode from an unidentified Wireless Key. An access code must be associated with a WLS KEY for proper operation.
- [7] ON: Bypass Status Displayed While Armed. the keypad displays the "Warning Bypass Active" prompt if zones are bypassed while the system is armed.

OFF: Bypass Status Not Displayed While Armed. The "Warning Bypass Active" prompt is not displayed when the system is armed.

[8] ON: Daylight Saving Time Enabled. Enables the Daylight Saving automatic clock adjustment feature. OFF: Daylight Saving Time Disabled. The system does not automatically adjust the clock for Daylight Saving.

Section [023] Tenth System Options

Option Description

[1] ON: [F] Key Beeps Only. The keypad [F] emergency key will only beep three times to acknowledge the button has been pressed. The system will not activate the siren.

OFF: [F] Key Beeps and Sounds Bell. The system will activate the siren and beep the keypad.

- [2] Future Use
- [3] ON: Test Transmission While Armed Only. The system will only transmit the Test Transmission reporting code if the system is armed at the time the system is programmed to report the event. OFF: Test Transmission while Armed/Disarmed. The system will always report the Test Transmission reporting code at the programmed time.
- [4] ON: Transmission Counter in Hours. The system changes the Test Transmission Reporting Cycle Time from Days to Hours. OFF: Transmission Counter in Days. The Test Transmission Reporting Cycle Time is in Days.
- [5] ON: Switching From Away to Stay Disabled. The user can NOT switch from Away Arm mode to Stay Arm mode using the function keys. OFF: Away to Stay Toggle Option Permitted. The user can switch arming modes.
- [6] Future Use
- [7] ON: Trouble Beeps are Silent. The system does NOT activate the keypad buzzer for any trouble condition except fire.
 OFF: Trouble Beeps Sound Every 10 Seconds. The system annunciates troubles via the keypad buzzer (2 beeps every 10 seconds).
- [8] ON: Keyswitch Arms in Away Mode. Keyswitch zones on the system will always arm the system in Away. OFF: Keyswitch Arms in Stay or Away Mode. When a keyswitch zone is used to arm the system, the final armed mode will depend on whether the user trips a delay zone during exit delay. If the user trips a delay zone, then the system will arm in Away mode, if not, then the system will arm in Stay mode. This is similar to arming the system at the keypad with an access code. The exit delay will be audible.

Section [030] Zone Loop Response Options

This section is used to determine the Loop Response Time for hardwired zones 33 and 34.

ON: Fast Loop Response. The loop response time will be 36 mS. **OFF: Normal Loop Response.** The loop response time will be 400 mS.

Section [101]-[134] Zone Attributes

These sections are used to customize the operation of the zones. There are 12 toggle options in each Section:

Option Description

- [1] Bell Options ON: Audible. Alarms are audible (bell output). OFF: Silent. Alarms are silent.
- [2] Bell Type ON: Steady. The bell output is steady (burglary). OFF: Pulsed. The alarm output pulses (fire).
- [3] Chime Options ON: Chime. A zone violation or restore will activate Chime. OFF: Chime is not activated.
- [4] Bypass Options ON: Bypass. The user can manually bypass the zone using the [*][1] command. OFF: the zone cannot be manually bypassed.
- [5] Force Arming Options ON: Force Arm. The system can be armed even if the zone is violated (the zone will not affect the Ready status). OFF: the zone must be secure before arming.
- [6] Swinger Shutdown ON: The system shuts down alarm reporting after the programmed number of alarms have occurred. OFF: the panel will always report the event if an alarm occurs.
- [7] **Transmission Delay Options ON: TX Delay.** The system delays reporting the event for the time programmed for the Transmission Delay time. **OFF:** the panel immediately transmits the reporting event when an alarm is detected.
- [8] Cross Zone Option ON: Cross Zone. The zone has the Cross Zone feature enabled. OFF: the zone functions normally.

[9]-[13] Future Use

- [14] NC Loops ON: This zone follows the Normally Closed (NC) loop configuration. OFF: Checks end of line configuration for SEOL
- [15] SEOL ON: This zone follows the SEOL zone configuration. OFF: Checks end of line configuration for DEOL.
- [16] DEOL ON: This zone follows the DEOL zone configuration. OFF: If options 14, 15, and 16 are off, then NC loops will be followed



If more than one option (14, 15, and 16) is selected, the lowest option number will take precedence (i.e., If option 14 and 15 are both selected, option 14 will be enabled).

When Zone Types (Section [001] to [002]) are programmed, the system will change the Zone Attributes to those found in the chart included in the Programming Worksheets. The Zone Attributes will default if a new Zone Type is programmed for a specific zone.

After programming the Zone Types, enter Section [101] to [134] and ensure that all options are programmed correctly.

Ready light **ON:** Program attributes **[1-8]**

Ready light and Armed light ON: Program attribute [9-16] (press [1] for option 9, press [6] for option 14 etc.)

Press [9] to switch between attributes [1-8] and attributes [9-16].

Section [168] Daylight Saving Time (Move Clock Ahead)

These sections are used to program the Date, Time and Increment that the clock will move ahead for Daylight Saving Time each year. Programming can be accomplished by programming the Month, Day, Hour and Increment or Month, Week, Day of Week, Hour and Increment:

Month Data [001] to [012] represents January to December.
 Week Data [000] indicates that the day of the month will be programmed in the Day section below. Data [001] to [005] represents weeks 1 to 5 of the month. Week 5 always represents the last week in the month, regardless if the number of weeks in the month is 4 or 5.
 Data [001] to [031] represents day of the month if [000] was programmed in the Week section above. If [001] to [005] was

programmed in the Week Section above, then Data [000] to [006] represents Sunday to Saturday.

Hour Data [000] to [022] represents the hour that Daylight Saving Time will take effect.

Increment Data [001] to [002] represents the number of hours to advance the clock for Daylight Savings Time.



Do not program the **Hour** outside of the valid range or the time will not change.

Do not program the value of the **Increment** to be greater then the number of hours remaining in the current day.

Section [169] Standard Time (Set Clock Back)

These sections are used to program the Date, Time and Increment that the clock will move back for Standard Time each year. Programming can be accomplished by programming the Month, Day, Hour and Increment or Month, Week, Day of Week, Hour and Increment:

MonthData [001] to [012] represents January to December.WeekData [000] indicates that the day of the month will be programmed in the Day section below. Data [001] to [005] represents
weeks 1 to 5 of the month. Week 5 always represents the last week in the month, regardless if the number of weeks in the
month is 4 or 5.DayData [001] to [031] represents day of the month if [000] was programmed in the Week section above. If [001] to [005] was
programmed in the Week Section above, then Data [000] to [006] represents Sunday to Saturday.HourData [000] or [023] represents the hour that Standard Time will take effect.IncrementData [001] or [002] represents the number of hours to roll back the clock for Daylight Saving Time.If Daylight Saving Time occurs at Midnight program the time 2:00AM.

Section [170] PGM Output Timer

Program the time, in seconds, PGM outputs programmed to follow the PGM Output Timer will activate for. Valid entries are [001] to [255].

Section [176] Cross Zone/Police Code Timer

Program the time, in seconds (Cross Zone) or minutes (Police Code), that the panel will use to determine if a Cross Zone or Police Code event has occurred. If data [000] is programmed when using the Police Code feature, the panel will generate a Police Code event if any two zones go into alarm during any armed-to-armed period. Valid entries are [001] to [255].

Section [190] No Activity Arming Pre-Alert Duration

Program the time, in minutes, for the No Activity Arming Pre-Alert Duration. The keypad will provide a steady tone warning the user that the system will arm. The user can either violate a zone or press any key to abort the arming sequence. Valid entries are [000] to [255].

Section [191] No Activity Arm Timer

Program the time, in minutes, for the No Activity Arm Timer. If Delay Zones are restored and no zone activity is detected for the time programmed, the system will start the auto arm sequence. Valid entries are [000] to [255].

Section [202]-[206] Zone Assignments

Activates the selected zones. Zones 1-32 are ON by default. Zones 33, 34 are OFF by default. If a zone is enabled, it will be supervised and will operate according to the zone type programmed. If a zone is not assigned, it will not be supervised and all activity on the zone will be ignored by the panel.



If a zone assignment is set, but no serial number is enrolled (zones 1 to 32), or the terminals are set as PGM outputs instead of zone inputs (zones 33 and 34), then these zones will appear in the bypass list.

Section [301]-[303] Communication Telephone Numbers

Program the phone numbers as required. Phone Number 3 is dedicated as a back-up to Phone Number 1. HEX digits can be included for special applications:

HEX [A]	Not used
HEX [B]	Simulates a [*] key press
HEX [C]	Simulates a [#] key press
HEX [D]	Additional dial tone search
HEX [E]	2-second pause
HEX [F]	End of phone number marker

Section [304] Call Waiting Cancel String

Program the digits required to disable call waiting. If enabled, the system will dial the programmed string on the first dialing attempt. Program unused digits with data **[F]**. This section is activated in Section [382] Opt [4].

Section [310] System Account Number

Program the System Account Number. Only the SIA format supports 6-digit account numbers. If a 4-digit account number is required, program the last two digits as data **[FF]**. For formats other than SIA, program a HEX **[A]** for any digit **[0]** in the account number being used.

Section [320]-[348] Reporting Codes

Program the reporting code for all events to be transmitted. For description of when each reporting event will be transmitted, refer to Appendix A – Reporting Codes. The panel also supports Automatic SIA and Automatic Contact ID reporting. Program data [00] to disable the reporting of an event. If any other data is programmed (Data [01] to [FF]) the panel will automatically generate the correct reporting event when

transmitting to the central station. For all formats excluding Automatic SIA and Automatic Contact ID, the panel will not attempt to report an event if data [00] or data [FF] is programmed for the reporting code.

Section [350] Communicator Format

Program the 2-digit number for the desired Communicator Format for the First Phone Number and Second Phone Number. When dialing the Third Phone Number, the system will use the Communicator Format programmed for Phone Number 1. Valid entries are **[01]** to **[06]**. Refer to the Programming Worksheet for a list of the available Communicator Formats. Refer Appendix B: Communicator Format Options on page 51 for details.

Section [351]-[376] Communicator Call Direction Options

Reporting events are categorized into 5 groups; Alarm/Restoral, Opening/Closing, Tamper Alarm/Restoral, System Maintenance and Test Transmissions. Program which Phone Number the control panel will use to transmit reporting events by turning the option **ON** in the correct Section. Phone Number 1 and/or Phone Number 2 can be used.

Section [377] Communicator Variables

Program a 3-digit number for each program entry:

Swinger Shutdown (Alarms): Maximum number of alarm/restoral transmissions per zone. Valid entries: [000] to [014]. Program data [000] to disable shutdown.

Swinger Shutdown (Tamper): Maximum number of tamper alarm/restoral transmissions per zone. Valid entries: [000] to [014]. Program data [000] to disable shutdown.

Swinger Shutdown (Maintenance): Maximum number of trouble alarm/restoral transmissions per trouble condition. Valid entries: [000] to [014]. Program data [000] to disable shutdown.

Communicator (Transmission) Delay: Time, in seconds, panel will delay reporting an alarm event. Valid entries: [000] to [255].

AC Failure Communication Delay: Time in minutes or hours, panel will delay reporting an AC trouble event or restoral.

(1) AC Restoral communications follow the same delay.

TLM Trouble Delay: Time, in 3 second checks, before the system will consider the phone line disconnected. Valid entries: **[003]** to **[255]** (e.g., 3 x 3 seconds = 9 seconds).

11 TLM Restoral follows the same delay.

Test Transmission Cycle (Land Line): Number of days or hours between test transmission reporting events. Valid entries: [001] to [255].

Wireless Zone Low Battery Delay: Number of days the system will delay reporting a wireless low battery to the central station. Valid entries: [000] to [255]. Program data [000] for no delay.

Delinquency Transmission Delay: Number of hours (Activity Delinquency) or days (Arming Delinquency) the panel will delay before transmitting the event to the central station. Valid entries: **[001]** to **[255]**.

Communication Cancelled Window: Time, in minutes, after an alarm has occurred that the system will report a Communication Cancel reporting event if the system is disarmed. The keypad will display "Communication Cancelled" to indicate that the communication cancelled reporting event has been successfully sent to the monitoring station. Valid entries: **[005]** to **[255]**.

Section [378] Test Transmission Time

Program the time the system will report a Test Transmission reporting event. Program 4 digits – **[HHMM]** using military standard. For a test transmission at 11:00 pm, program data **[2300]**. Valid entries are **[0000]** to **[2359]**, **[9999]** to disable.

Section [380] First Communicator Options

Option Description

- [1] ON: Communications Enabled. The system communicator is enabled. OFF: Communications Disabled. The communicator is disabled.
- [2] ON: Restorals on Bell Time-out. The system transmits alarm restorals if the zone is restored and the bell has timed out. OFF: Restorals Follow Zones. The system transmits alarm restorals immediately when the zone is restored.
- [3] ON: Pulse Dialing. The panel uses rotary (pulse) dialing. OFF: DTMF Dialing. The panel uses touchtone (DTMF) dialing.
- [4]-[5] Future Use
- [6] ON: Alternate Dial (1st & 3rd). The system alternates between the First Phone Number and Third Phone Number when attempting to report an event.

OFF: Call 1st No. Backup to 3rd. The panel will dial the First Phone Number for the programmed number of attempts, then switch to the Third Phone Number.

- [7] For Future Use
- [8] ON: Delinquency Follows Zone Activity (Hours). The Delinquency feature follows zone activity. OFF: Delinquency Follows Arming (Days). The Delinquency feature follows arming.

Section [381] Second Communicator Options

Option Description

- [1] ON: Opening After Alarm Keypad Ringback Enabled. When the Opening After Alarm reporting code is successfully transmitted to a programmed telephone number, the keypad will sound a series of 8 beeps to confirm to the end user that the Opening After Alarm Code was sent and received. This Ringback will occur for each Opening After Alarm code successfully reported. OFF: Opening After Alarm Keypad Ringback Disabled.
- [2] Future Use
- [3] ON: SIA Uses Programmed Reporting Codes. The system uses programmed reporting codes when transmitting using the SIA format. OFF: SIA Uses Automatic Reporting Codes. The system automatically generates all reporting codes transmitted.
- [4] **ON: Closing Confirmation Enabled.** The system beeps the keypad 8 times after transmitting a **Closing** reporting event. **OFF: Closing Confirmation Disabled.** The keypad does not beep.
- [5]-[6] Future Use
 - [7] ON: Contact ID Uses Programmed Reporting Codes. The system uses Contact ID format programmed reporting codes when transmitting reporting codes.

OFF: Contact ID Uses Automatic Reporting Codes. The system automatically generates all reporting codes transmitted.

[8] Future Use

Section [382] Third Communicator Options

Option Description

[1] ON: Partial Closing Identifier is '5'. The system will use the digit [5] as the first digit of the Partial Closing reporting code when transmitting Contact ID reporting codes.

OFF: Partial Closing Identifier is '4'. The system will use the digit [4] as the first digit of the Partial Closing reporting code when transmitting Contact ID reporting codes.

- [2] ON: Alarm Communications Enabled During Walk Test. The system will transmit all alarms during Walk Test. OFF: Alarm Communications Disabled During Walk Test. The system will not report alarm events during Walk Test.
- [3] ON: Communications Cancelled Message Enabled. The keypad will display the message 'Communications Cancelled' upon successful transmission of the Communication Cancelled reporting event.
 OFF: Communications Cancelled Message Disabled. The keypad will not display these messages. (ON for SIA CP-01).
- [4] ON: Call Waiting Cancel Enabled. The system dials the Call Waiting Cancel string on the first attempt to dial the central station. OFF: Call Waiting Cancel Disabled. The system does not dial the Call Waiting Cancel string.
- [5] Future Use
- [6] ON: AC Failure Transmission Delay in Hours. The AC Failure Transmission Delay timer will be in hours. OFF: AC Failure Transmission Delay in Minutes. The AC Failure Transmission Delay timer will be in minutes.
- [7] ON: Residential Dialing Attempts are 1. Number of Dialing Attempts is one when using Residential Dial communication format. OFF: Residential Dialing Attempts are 5. Number of Dialing Attempts is five when using Residential Dial communication format.
- [8] Future Use

Section [401] First Downloading Options

Option Description

[1] ON: Answering Machine Double Call Enabled. The system answers incoming calls for downloading (either Programmed Number of Rings or Double Call). OFF: Answering Machine Double Call Disabled. The system does not answer incoming calls for double call attempts, but will still answer on Programmed Number of Rings.

1 These settings do not affect the 6 hour DLS downloading window on power up.

[2] ON: User Can Enable DLS Window. The user can enable downloading for the DLS downloading window (double call only) using the [*][6] command.

OFF: User Can NOT Enable DLS Window. The user can not enable the DLS downloading window using the [*][6] command.

- [3] ON: Call Back Enabled. The system will hang up after a successful DLS connection and call the computer back using the DLS Phone Number (Section [402]). OFF: Call Back Disabled. The system stays connected to the computer.
- [4] ON: User Initiated Call-up Enabled. The user can initiate a downloading session using the [*][6] command. OFF: User Initiated Call-up Disabled. The user cannot initiate a downloading session.

- [5] Future Use
- [6] ON: 300 Baud Panel Call-Up. When the user initiates a DLS connection, the panel will connect and send the initial header at 300 baud. OFF: 110 Baud Panel Call-Up. When the user initiates a DLS connection, the panel will connect and send the initial header at 110 baud. The panel will then switch to 300 baud in order to receive the response from the DLS computer.
- [7]-[8] Future Use

Section [402] Downloading Computer Phone Number

The Downloading Computer Telephone Number is used for Call Back and User Initiated DLS functions. Program the phone number as required. HEX digits can be included for special applications:

HEV[A]	Not used
ΠΕΛ [Α]	Not used
HEX [B]	Simulates a [*] key press
HEX [C]	Simulates a [#] key press
HEX [D]	Additional dial tone search
HEX [E]	2-second pause
HEX [F]	End of phone number marker

Section [403] Downloading Access Code

Program the 6-digit Downloading Access Code. Upon connection, the system will only connect to the downloading computer if the Downloading Access Code programmed matches the Downloading Access Code programmed in the computer file.

Section [404] Panel Identification Code

Program the 6-digit Panel Identification Code. This code is used by the downloading computer to verify the correct account is calling back (Call Back feature) or to identify which customer account file should be used (User Initiated DLS features).

Section [405] Double Call Timer

Program the maximum time in seconds, between calls, when connecting to the panel using the Double Call feature.

Section [406] Number of Rings to Answer On

The value in this section determine how many rings that the panel will automatically pick up on in order to establish a DLS connection.



If Section [401] Option 1 and Section [406] are both enabled, either one will work depending on how the installer calls the premises.

Section [499] Initiate PC-Link Downloading

Enter the following command to initiate downloading via PC-Link – Section [499] [Installer Code] [499]. Plugging in the PC-Link connector will automatically initiate the connection if DLS is initiated before connecting the PC-Link Header. The session will NOT be automatically initiated if the system is in installer mode.

Section [501]-[502] PGM 1 & 2 Output Attributes

Allows the installer to customize PGM1 and PGM2 Attributes. The following attributes can be enabled or disabled for each PGM output. When a PGM option is changed, the corresponding PGM's attributes are defaulted.

The following attributes are available for PGM Output Types [01], [05]-[08] and [17]-[20].

- **Option** Description
- [1]-[2] Not Used

[3] ON: True Output. Output will activate (switch to ground) when the event occurs. OFF: Inverted Output. Output will de-activate (switch to open) when the event occurs.

This attribute is also available for PGM Output Types [11] and [12].

[4] ON: Output Pulsed. The output will activate for the duration programmed in the PGM Output Timer, Section [170]. OFF: Output On/Off. The output will toggle between on and off when the corresponding [*][7] command is entered.

This attribute is available only for PGM Output Types [11] and [19]-[20].

[5] ON: Access Code Required for Activation. OFF: No Access Code Required for Activation.

This attribute is available only for PGM Output Types [19]-[20].

The following attributes are available for PGM Output Type [09]

- [1] **ON:** PGM output activates if a Service Required trouble condition is present.
- [2] ON: PGM output activates if an AC trouble condition is present.
- [3] ON: PGM output activates if a Telephone Line trouble condition is present.
- [4] ON: PGM output activates if a Failure to Communicate trouble condition is present.
- [5] ON: PGM output activates if a Zone Fault condition is present.
- [6] **ON:** PGM output activates if a Zone Tamper condition is present.
- [7] ON: PGM output will activates if a Wireless Low Battery trouble condition is present.
- [8] ON: PGM output will activates if a Loss of Clock trouble condition is present.

The following attributes are available for PGM Output Type [10]

- [1] **ON:** PGM output activates if a Burglary Alarm occurs.
- [2] ON: PGM output activates if a Fire Alarm occurs.
- [3] ON: PGM output activates if a Panic Alarm occurs.
- [4] **ON:** PGM output activates if a Medical Alarm occurs.
- [5] ON: PGM output activates if a Supervisory Alarm occurs.
- [6] **ON:** PGM output activates if a Priority Alarm occurs.
- [7] ON: PGM output will activates if a 24-Hour Duress Alarm occurs.
- [8] ON: the PGM output activates for the time programmed for the PGM Output Timer. OFF: the PGM output will latch until a valid user code is entered.

Section [700] Automatic Clock Adjust

Program the number of seconds for the last minute of the day. This can be used to make minor corrections to the clock if the AC frequency is not reliable. Valid entries are **[01]** to **[99]**.

Section [701] First International Options

Option Description

- [1] ON: 50 Hz AC. Configures the system for 50Hz AC. OFF: 60 Hz AC. Configures the system for 60Hz AC.
- [2] ON: Time Base Internal Crystal. The system uses the internal crystal for the internal panel clock. OFF: Time Base AC-Line. The system uses the AC frequency for the internal panel clock.
- [3] ON: AC/DC Arming Inhibit with Battery Check Enabled. The system will inhibit arming if a Low Battery or AC trouble condition is present.

OFF: Arming not Inhibited. Arming will not be inhibited.

- [4] ON: System Tampers Require Installer Reset. All Tamper troubles will latch and arming will be inhibited. Enter Installer. Programming to clear the trouble condition and return to normal operation.
 OFF: System Tampers Do Not Require Installer Reset. Tamper troubles will not latch and will not inhibit arming. Manual bypassing of a zone will not bypass the tamper or fault states (DEOL).
- [5] ON: 6-digit Access Codes. All access codes are 6 digits long. OFF: 4-digit Access Codes. All access codes are 4 digits long.
- [6] ON: Busy Tone Detection Enabled. The system will hang up if a busy tone is detected. This attempt is not counted towards the maximum dialing attempts.

OFF: Busy Tone Detection Disabled. The system will not detect busy tones.

[7]-[8] Future Use

Section [702] Second International Options

Option Description

- [1] ON: Pulse Dialing Make/Break ratio is 33/67. The communicator uses 33/67 make/break ratio when pulse dialing. OFF: Pulse Dialing Make/Break ratio is 40/60. The system uses 40/60 make/break ratio.
- [2] ON: Force Dialing Enabled. The system dials regardless of the presence of dial tone after the first attempt. OFF: Force Dialing Disabled. The system dials only if dial tone is detected.
- [3] Future Use
- [4] ON: 1600Hz Handshake. 1600Hz Handshake used. OFF: Standard Handshake. Standard Handshake is used.
- [5] ON: ID Tone Enabled. The system generates a tone for 500mS every 2 seconds indicating digital equipment is making the call vs. a voice call.

OFF: ID Tone Disabled. The system does not generate a tone.

- [6] ON: 2100 Hz. ID Tone. The tone generated (2100Hz.) indicates that digital equipment is making the call. OFF: 1300 Hz. ID Tone. The tone is 1300Hz.
- [7]-[8] Future Use

Section [703] Delay Between Dialing Attempts

Program the time the system will wait between dialing attempts to transmit a reporting event to the central station. Valid entries are [001] to [255].

Section [804] Wireless Programming

The following programming sections are used to program wireless devices. Enter the associated 6-digit Electronic Serial Number (ESN).

Sub Section [01]-[32] Wireless Zone Programming

These sections are used to enter the wireless zone serial numbers. This is a 6 digit hexadecimal entry. For toggling entries between decimal and hexadecimal values press [*]. The first digit of the serial number is used to identify the type of device:

- 2 = Door/Window Contact
- 3 = PIR or Glass Break Detector
- 4 =Smoke Detector
- 5 = Panic Pendant

Sub Section [41]-[56] Wireless Key Programming

These sections are used to enter 6-digit hexadecimal wireless key serial numbers. For toggling entries between decimal and hexadecimal values press [*]. The first digit of the wireless keys can be either '6' or '9'.

Wireless key numbers (01-16) correspond with User access codes (01-16).

Sub Section [61]-[76] Wireless Key Function Key Programming

Up to 4 functions can be programmed uniquely for each wireless key. Refer to Function Key Options on page 15 for a list of functions that can be programmed in the wireless keys.

Sub Section [81] Wireless Supervisory Window (Entry Value x 15 minutes) (4 - 96 = 1 - 24Hr Window).

This entry is in minutes and when multiplied by 15, determines the length of the supervisory window, valid entries are between 04 to 96 for 1 to 24 hours. The default for the North American market is 96 (24 hours).

Sub Section [82]-[85] Wireless Zone Supervision (Zones 1 - 32)

Programming these sections determines whether or not the zone transmitter will be supervised.

Panic Pendants do not send Supervisory signals and cannot be supervised.

Sub Section [90] General Wireless Options (Zones 1 - 32)

Option Description

[1]-[6] Future Use

- [7] ON: RF Jam Disabled. RF Jam is disabled. OFF: RF Jam Enabled. RF Jam is enabled.
- [8] ON: Global Placement Test. All placements (zones) tested.
 OFF: Individual Module Placement Test. Installer must enter zone number for placement test.

Section [898]: Wireless Device Enrollment - See Section 2 of this manual.

Section [899]: Template Programming - See Section 3 of this manual.

Section [900]: Panel Version Displayed

Section [900]: Display Panel Version. The system will display the version of the control panel (for example, [0100] indicates panel version 1.00).

Section [904]: Wireless Module Placement Test

Enter Section [904] followed by the 2-digit number of the wireless zone to test. When a wireless signal is received from the selected transmitter, the system will indicate the location as **Good** or **Bad** as follows:

Good: One bell squawk, keypad displays 'GOOD'

Bad: Three bell squawks, keypad displays 'BAD'

Press [#] to exit when testing is complete. Enter the 2-digit zone number for the next wireless device to test or press [#] to return to standard programming.

Section [990] Installer Lockout Enable

Enter Section [990][Installer Code][990] to enable the Installer Lockout feature. A hardware default cannot be performed when the Installer Lockout feature is ON. In addition, the system will chatter the line seizure relay 10 times if the panel is powered up to indicate the feature is ON.

Section [991] Installer Lockout Disable

Enter Section [991][Installer Code][991] to turn the Installer Lockout feature OFF.

Section [996] Restore Wireless Device Default Programming

Enter Section [996][Installer Code][996] to return wireless programming to factory defaults.

Section [998] Restore Control Panel Default Programming

Enter Section [998][Installer Code][998] to return control panel programming (including 2-way Audio options, Sect [600]) to factory defaults.



Wireless device programming and keypad programming are not defaulted. To default Labels see Section [996] Label Reset in Keypad Programming. To default Wireless Devices see Section [996] above.

Section [999] Restore System Default Programming

Enter Section [999][Installer Code][999] to return system programming to factory defaults.



Except for labels, all programming including wireless device programming and keypad programming will be returned to factory defaults. To default labels see Section [996] Label Reset in Keypad Programming.

Hardware Reset (Default) Main Control Panel

Perform the following to default the main control panel:

- Power down the system completely
- Connect a short between I/O 1 and I/O 2 on the control panel (remove all other wires from these terminals)
- Power up the control panel (AC power only) for 10 full seconds
- Power down the control panel, remove short between I/O 1 and I/O 2
- Power up the control panel

Keypad Programming

To access Keypad Programming enter [*][8][Installer's Code][*]. To return to System Programming press [*].

System Labels

There are 39 programmable system labels which are programmable through the Keypad or Downloading. Once a label programming section has been entered, use the [<] and [>] Cursor keys to move left and right to get to another letter within the label. The letters of the alphabet are divided up among the number keys 1-9 on the keypad as described below:

[<] = Display Left (Previous)	[6] = P Q R 6
[>] = Display Right (Next)	[7] = S T U 7
[1] = A B C 1	[8] = V W X 8
[2] = D E F 2	[9] = Y Z 9 0
[3] = G H I 3	[0] = SPACE
[4] = J K L 4	[*] = SELECT
[5] = M N O 5	[#] = ESCAPE

For example, if you press the [4] key once, the letter "J" will appear above the cursor on the display. Press the [4] key again, the next letter "K" will appear, and so on. If a different number is pressed, e.g. the [6] key, the cursor will automatically move to the right one space, i.e. the letter "P". To erase a character, use the [<] [>] keys to move the cursor under the character, then press the [0] key. If the [0] key is pressed, and [<] or [>] was the previous key pressed, the character over the cursor will be cleared. If any other key was previously pressed, then increment to and clear the next character. While programming a label, press the [*****] key to call up an options menu. To select an option, scroll through the options using the [<] [>] keys, then press the [*****] key to select.

SAVE	Saves the new label.
CHANGE CASE	Toggles the letter entry between upper case letters (A,B,C) and lower case letters (a,b,c).
ASCII ENTRY	For entering uncommon characters. There are 255 characters. Use the [<] [>] keys to scroll through the characters or enter a 3 digit number from 000-255. Press the [*] key to enter the character into the label.
CLEAR TO END	Clears the display from the character where the cursor was located to the end of the display.
CLEAR DISPLAY	Clears the entire label field.

Section [001]-[034] Zone Labels

Enter a 28 character zone label for up to 32 wireless zones and 2 hardwired zones (33 & 34). Default Value = '**ZONE----XX**' where XX equals the zone number.

Section [065] Fire Alarm Labels

Enter a 28 character Fire Alarm label. Default Value = 'FIRE-ZONE'.

Section [066] Fail to Arm Event Message

Enter a 32 character Fail to Arm Event Message. Default Value = 'SYSTEM HAS -----', 'FAILED-TO-ARM----'.

Section [067] Alarm when Armed Event Message

Enter a 32 character Alarm when Armed Event Message. Default Value = 'ALARM-OCCURRED--', 'WHILE-ARMED---'.

Section [068]-[069] Command Output Label

Enter a 28 character Command Output Label label for each command Output (2 MAX). Default Value = '**COMMAND-O/P-X-**' where X equals the Command Output number.

Section [074] First Keypad Options

Option Description

- [1] **Future Use**
- [2] **ON:** [A] Key Enabled. When the [A] key is pressed and held, the keypad will generate a [A]ux key alarm. The display will prompt the user to hold the key.

OFF: [A] Key Disabled. Prevents the keypad from requesting a [A]ux key alarm.

- [3] **ON:** [P] Key Enabled. When the [P] key is pressed and held, the keypad will generate a [P]anic key alarm. The display will prompt the user to hold the key, depending on the setting of Option 8 (in this section). **OFF:** [P] Key Disabled. Prevents the keypad from requesting a [P]anic key alarm.
- [4] ON: Quick Arm Prompt is enabled. When in the Disarmed Star menu, the Quick Arm prompt will be displayed. OFF: Quick Arm Prompt is disabled. The Quick Arm prompt is disabled.
- [5] ON: Quick Exit Prompt is enabled. When in the Armed Star menu, the Quick Exit prompt will be displayed. OFF: Quick Exit Prompt is disabled. The Quick Exit prompt is disabled.
- ON: Bypass Options Prompt is enabled. In the [*1] Bypass menu, the Bypass Options prompt will be displayed. This is a local [6] function prompt. When selected, the keypad will display the Bypass Options menu. **OFF: Bypass Options Prompt and menu is disabled.** Prompt and menu is disabled.
- [7] ON: User Initiated Call-Up Prompt is enabled. In the [*6] User Functions menu, the User Initiated Call-up prompt will be Displayed. When this prompt is selected, the keypad will send a [6] key. OFF: User Initiated Call-Up Prompt is disabled. The prompt is not displayed.
- [8] ON: Hold [P] Key Prompt is enabled. When holding the [P] key, the display will prompt the user to hold the [P] key to generate a Panic alarm. This is a local prompt. OFF: Hold [P] Key Prompt is disabled. When holding the [P] key, the user will receive no feedback that the key has been pressed. The display and backlighting will not change.

Section [075] Second Keypad Options

Option Description

- [1] ON: Local Clock Enabled: When the keypad is not being used, the keypad will return to displaying the Time and Date until another key is pressed. OFF: Local Clock Disabled.
- [2] ON: Local Clock Displays 24 Hour Time. When this feature is enabled, the time is displayed in 24 hour military format. OFF: Local Clock Displays AM/PM Time. When this feature is enabled, the time is displayed in 12 hour format (AM/PM).

This option does not affect the time programming menu, which is always in 24-hour time format.

[3] ON: Auto Alarm Scroll Enabled. When the bell is active or when there is an alarm in memory while armed, the keypad will scroll automatically and display all alarms.

OFF: Auto Alarm Scroll Disabled. The keypad will not scroll automatically and display all alarms.

- [4] **ON: Language Selection Accessible from Any Menu.** Pressing <> and holding for 2 seconds displays the language selection menu. OFF: Language Selection Accessible from Installer's Menu Only. Pressing <> and holding for 2 seconds generates an error tone.
- [5] ON: Power LED is enabled. The LED functionality is defined by Option 6. OFF: Power LED is disabled. Option 6 has no effect.
- [6] ON: Power LED Indicates AC Present. If AC is present then the LED will be ON to indicate AC power is present. If AC is absent then the LED will be OFF indicating that the AC power is lost. OFF: Power LED Indicates AC Absent. If AC is present then the LED will be OFF to indicate that the AC is present and there is no trouble. If the AC is absent then the LED will be ON steady to indicate that there is a problem with the AC power.
- [7] **ON:** Alarms are Displayed while Armed. If any alarms occur while armed, the keypad will display the alarms by identifying the zones.OFF: Alarms are Not Displayed while Armed. If any alarms occur while armed, the keypad will not show any indication that an alarm occurred on the system. When the system is disarmed, the keypad will still enter Alarm Memory to indicate which zones went into alarm during the alarm period.
- [8] ON: Auto Scroll of Open Zones is enabled. When a zone is open, the keypad will scroll automatically and display all open zones. Open zones also override the local clock display. OFF: Auto Scroll of Open Zones is disabled. Open zones are not displayed.

Section [076] Third Keypad Options

Option Description

- [1] ON: Chime Enabled for Zone Openings. When the zone is open and the chime feature is enabled ([*][4] Door Chime), the keypad will chime the selected chime tone for the zone.
 - OFF: Chime Disabled for Zone Openings. The keypad will not chime for zone openings.
- [2] ON: Chime Enabled for Zone Closings. When the zone is closed and the chime feature is enabled ([*][4] Door Chime), the keypad will chime the selected chime tone for the zone.
 OFF: Chime Disabled for Zone Closing. The keypad will not chime for zone closings.
- [3-8] Future Use

Section [077] Programmed LCD Message

Enter a 32 character message. If there is any thing other than blanks programmed into this section, the keypad will time out to this message instead of the Time and Date display. Any option or feature that overrides the clock display will also override the LCD message. An override by the system will not be counted against the Message Duration programmed in Section [078]. This message can be programmed in Installers Programming or using DLS.

Section [078] Programmed LCD Message Duration

Enter a 3 digit number. Valid Entries are 001 to 255 seconds. 000 = Unlimited Duration.

This section is used to program the number of times an LCD message must be cleared from the LCD displays (by pressing any key) before it will no longer be displayed. When programmed on the system, the LCD keypad will display the message when not in use. Programming 000 in this section will result in the message never clearing. This could be used as a greeting (residential) or a company message (commercial). This overrides the settings of Clock Display options in Section [075].

Section [201]-[234] Door Chime Options for Zones 1-34

Option Description

- [1] ON: 6 Beeps. Standard Door Chime Enabled. OFF: Disabled. Standard Door Chime Disabled.
- [2] ON: Bing Bing Sound. OFF: Disabled.
- [3] ON: Ding Dong Sound. OFF Disabled.
- [4] ON: Alarm Tone. The keypad will sound a medium volume alarm signal for 4 seconds. OFF: Disabled.
- [5-8] Future Use

6

Enable one Door Chime option for each zone. If more than one option is enabled, the last numerical option enabled will take precedence. For example, if options 3 and 1 are both enabled, then the zone will sound 'Ding-Dong'. If all Door Chime options are disabled, the keypad will not sound a Door Chime tone for that particular zone.

Section [996] Label Reset

Resets Programmable Labels to Factory Defaults. Entering this section and pressing [*] returns all programmable system labels to the default conditions in the language that is currently active. This does not affect any of the keypad configuration sections.

Section 9: Testing & Troubleshooting

Testing:

- Power up system
- Program options as required (See *Programming Section*)
- Violate, then restore zones
- Verify correct *Reporting Codes* are sent to the Central Station

Troubleshooting:

- Power up system
- Enter [*][2] to view Troubles
- Perform actions indicated in the tables below.

Trouble Summary:

Trouble [1] Service Required - Press [1] or ***** for more information

Low Battery General System Trouble General System Tamper

Trouble [2] - AC Trouble

- Trouble [3] Telephone Line Trouble
- Trouble [4] Failure to Communicate

Cause

- Trouble [5] Zone Fault -Press [5] or ***** for more information
- Trouble [6] Zone Tamper Press [6] or ***** for more information
- Trouble [7] Wireless Device Low Battery Press [7] or ***** for more information
- Trouble [8] Loss of Time or Date Press * to program date and time.

Trouble

Troubleshooting

Frouble	[1]	Service	Required	
i i oubic	1.1		nequired	

Press [1] to determine specific trouble

Low Battery	Main panel battery less than 7.2VDC NOTE: This trouble condition will not clear until the battery voltage is 7.6VDC min., under load.	 NOTE: If battery is new allow 24 Hrs. for battery to charge. Verify voltage measured across AC terminals is 16-18 VAC. Replace transformer if required. Disconnect then reconnect battery leads.
General System Trouble	The system has detected the presence of a RF Jam for 20s or communications with the wireless receiver have failed causing a Hardware Fault.	 Check Event buffer to determine specific trouble. If Buffer logs RF Jam trouble: Check for external 433MHZ signal sources To disable RF Jam: enable Option [7] in program section [804] subsection [90]. If Buffer logs Hardware fault - Replace Panel
General System Tamper	Cover tamper tripped	 Verify that tamper button is installed into back plate Verify that keypad (cover) is secured to backplate.

Trouble [2] AC Failure

	No AC at panel AC input terminals	•	Verify voltage measured across AC terminals is 16-18VAC. Replace transformer if required.		
Trouble [3] Telephone Line Trouble					
	Phone Line Voltage at TIP, RING on main panel less than 3VDC	•	 Measure the voltage across TIP and RING on the panel: No phone off-hook – 50VDC (approx.) Any phone off-hook – 5VDC (approx.) Wire incoming line directly to TIP and RING. If trouble clears, check wiring or the RJ-31x phone jack. 		

Trouble [4] Failure to Communicate

	Panel fails to communicate one or more events to central station	 Connect a headset to TIP and RING of the control panel. Monitor for the following conditions: Continuous dial tone Reverse TIP and RING Recorded operator message comes on Verify correct phone number is programmed Dial the number programmed using a regular telephone to determine if a [9] must be dialed or if 800 service is blocked. Panel does not respond to handshakes. Verify the format programmed is supported by the central station. Panel transmits data multiple times without receiving a handshake Verify that the account number and reporting codes are correctly programmed. NOTE: Contact ID and Pulse formats Program a HEX [A] to transmit a digit [0] SIA format Program a digit [0] to transmit a digit [0] 	
Trouble [5] Zone Fault	Press [5] to determine specific zones with a Fault trouble		
	Hard-wired zone fault condition present. A short circuit is present on one or more zones with double end-of-line resistors	 Remove the wire leads from I/O and COM terminals and measure the resistance of the wire leads. Connect a 5.6K resistor (Green, Blue, Red) across the I/O and 	

enabled	COM terminals. Verify the trouble condition clears.
One or more wireless devices have not checked in within the programmed time	 Perform a Module Placement Test – Program Section [904] and verify the wireless device is in a good location. If bad test results occur, test the wireless device in another location If the wireless device now tests good, the original mounting location is bad If the wireless device continues to give bad test results replace the wireless device.

Trouble [6] Zone Tamper Press [6] to determine specific zones with a Tamper trouble

An open circuit is prese more zones with double resistors enabled	 Remove the wire leads from I/O and COM terminals and measure the resistance of the wire leads. Connect a 5.6K resistor (Green, Blue, Red) across the I/O and COM terminals. Verify the trouble condition clears.
A tamper condition is pr more wireless devices	 esent on one or Ensure device cover is secure Ensure device is correctly mounted for wall tamper operation Violate, then restore the tamper: If tamper condition persists then replace wireless device

Trouble [7] Wireless Device Low Battery Press [7] to scroll through specific devices with a Low Battery Trouble

1st press – Wireless Zones 2nd press – Wireless Keys	One or more wireless devices has a low battery NOTE: The event will not be logged to the event buffer until the wireless device low battery delay time expires Program Section [377] Opt 9	 Replace Battery Verify zone operation Verify that tamper and low battery condition is cleared and reported NOTE: Replacing batteries will cause a tamper. Replacing cover will restore the tamper causing the associated reporting codes to be sent to the Central Station.
---	--	--

Trouble [8] Loss of Clock/Date

The main panel internal clock is not set	 To program the time and date: Enter [*][6][Master Code] then Press [1] Enter the time and date (in military) using the following format: HH:MM MM/DD/YY Example. For 6:00 pm, Nov. 30, 2007 Enter: [18] [00] [11] [30] [07]
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Appendix A: Reporting Code Formats

The following tables contain Contact ID and Automatic SIA format reporting codes. See Programming Sections [320]-[348] for Reporting Codes **Contact ID**

The first digit (in parentheses) will automatically be sent by the control. The second two digits are programmed to indicate specific information about the signal. For example, if zone 1 is an entry/exit point, you could program the event code as [34]. The central station would receive the following:

*BURG - ENTRY/EXIT - 1 where the "1" indicates which zone went into alarm.

SIA Format - Level 2 (Hard Coded)

The SIA communication format used in this product follows the level 2 specifications of the SIA Digital Communication Standard - October 1997. This format will send the Account Code along with its data transmission. The transmission will look similar to the following at the receiver:

N Ri1 BA 01 New Event Ν = Ri1

Partition /Area Identifier =

BA = **Burglary Alarm** 01 Zone 1 =

NOTE: A system event will use the Area Identifier Ri00.

Section #	Reporting Code	Code Sent When	Dialer Direction*	Automatic Contact ID Codes	SIA Auto Rep Codes**
[320]-[323]	Zone Alarms	Zone goes into alarm	A/R	See the follow	ing tables on next
[324]-[327]	Zone Restorals	Alarm condition has been restored	A/R	page for details	
[328]	Duress Alarm	Duress code entered at keypad	A/R	(1) 21	HA-00
[328]	Opening After Alarm	System disarmed with alarm in memory	A/R	(4) 58	OR-UU
[328]	Recent Closing	Alarm occurs within two minutes of system arming	A/R	(4) 59	CR-00
[328]	Cross Zone (Police Code) Alarm	Two zones on the same partition go into alarm during any given armed-to-armed period (incl. 24Hr zones)	A/R	(1) 39	BM-00/BV-00
[328]	Burglary Not Verified	This event is transmitted when a second cross zone alarm does not occur within the Cross Zone timer	A/R	(3) 78	BG-00
[328]	Alarm Cancelled	Sent when the system is disarmed after an alarm, but before the expiry of the Alarm Cancel timer	A/R	(4) A6	BC-00
[329]	[F] Key Alarm/Rest.	Keypad fire alarm (alarm and restoral rep. codes sent together)	A/R	(1) 1A	FA-00/FH-00
[329]	[A] Key Alarm/Rest.	Keypad auxiliary alarm (alarm and restoral rep. codes sent together)	A/R	(1) AA	MA-00/MH-00
[329]	[P] Key Alarm/Rest.	Keypad panic alarm (alarm and restoral rep. codes sent together)	A/R	(1) 2A	PA-00/PH-00
[330]-[337]	Zone Tamper/Restoral	Zone is tampered / tamper condition restored	T/R	(3) 83	TA-ZZ/TR-ZZ
[338]	General System Tamper/ Rest.	Case/cover has a tamper alarm. Case/cover tamper restored	T/R	(1) 45	ES-00/EJ-00
[338]	Keypad Lockout	Maximum number of incorrect access codes has been entered at a keypad	T/R	(4) 61	JA-00
[339-341]	Closings	System armed (user 01-16, 40 indicated)	O/C	(4) A1	CL-UU
[341]	Bypass Zones	Sent when zone is bypassed	O/C	(5) 7A	UB-ZZ
[341]	Partial Closing	One or more zones bypassed when system armed	O/C	(4) 56	CG-00
[341]	Special Closing	Closing (arming) using one of the following methods: quick arm, keyswitch, function key, maintenance code, DLS software, wire- less key	O/C	(4) AA	CL-00
[341]	Exit Fault	Sent when an Exit Error occurs and the Entry Delay expires before the system is disarmed	O/C	(3) 74	EE-00
[342-344]	Openings	System disarmed (user 01-16, 40 indicated)	O/C	(4) A1	OP-UU
[344]	Special Opening	Opening (disarming) using one of the following methods: key- switch, maintenance code, DLS software, wireless key	O/C	(4) AA	OP-00
[345]-[346]	Battery Trouble/Rest.	SCW System battery is low/battery restored	MA/R	(3) A2	YT-00/YR-00
[345]-[346]	AC Line Trouble/Rest.	AC power to control panel is disconnected or interrupted/AC power restored (Both codes follow AC Failure Comm. Delay.)	MA/R	(3) A1	AT-00/AR-00
[345]-[346]	Fire Trouble/Rest.	Trouble occurs/Restoral on a fire zone	MA/R	(3) 73	FT-00/FH-00
[345]-[346]	Auxiliary Power Trouble/ Rest.	Aux voltage supply trouble/restoral	MA/R	(3) 12	YP-00/YQ-00
[346]	TLM Restoral	Telephone line restored	MA/R	(3) 51	LR-01
[345]-[346]	Gen. System Trouble/Rest.	"Service Required" trouble occurs (view troubles using [*][2])/trouble restored	MA/R	(3) AA	YX-00/YZ-00
[347]	Phone# 1 or 2 FTC Restoral	Control panel has restored communications to central station on Phone# 1 or 2 (after FTC)	MA/R	(3) 54	YK-00
[347]	DLS Lead In	Downloading session start	MA/R	(4) 11	RB-00
[347]	DLS Lead Out	Downloading session complete	MA/R	(4) 12	RS-00
[347]	Zone Fault/Rest.	One or more zones have faults/restored	MA/R	(3) 80	UT-ZZ/UJ-ZZ

Section #	Reporting Code	Code Sent When	Dialer Direction*	Automatic Contact ID Codes	SIA Auto Rep Codes**
[347]	Delinquency	Programmed amount of time (days or hours) for delinquency has expired without zone activity, or without system being armed	MA/R	(6) 54***	CD-00
[347]	Wireless Device Low Battery Trouble/Rest.	Wireless zones, panic pendants, wireless keys have low battery/ all low batteries restored	MA/R	(3) 84	XT-00/XR-00 XT-ZZ/XR-ZZ****
[347]	Installer Lead In	Installer's mode has been entered	MA/R	(6)27	LB-00
[347]	Installer Lead Out	Installer's mode has been exited	MA/R	(6)28	LS-00
[348]	Walk Test End	End of test	Т	(6) A7	TE-00
[348]	Walk Test Begin	Beginning of test	Т	(6) A7	TS-00
[348]	Periodic Test	Periodic system test transmission	Т	(6) A2	RP-00
[348]	System Test	[*][6] bell/communications test	Т	(6) A1	RX-00
[348] * ***	System Test A/R = alarms/restorals; T/R = ta UU = user number (user01-16,4	[*][6] bell/communications test mpers/restorals; O/C = openings/closings; MA/R = miscellaneous alarn 0); ZZ = zone number (01-34).	T ns/restorals; T :	(6) A1 = test transmiss	RX-00

Use the "Fail to close" event code [(4)54] to report closing or activity delinquency. Ensure the centra Zones are panic pendants are identified, wireless keys can be identified for openings and closings. sed. ****

Contact ID Zone Alarm/Restoral Event Codes

(as per SIA DCS: 'Contact ID' 01-1999): Program any of these codes for zone alarms/restorals when using the standard (non-automatic) Contact ID reporting format.

Medical Alarms	(1)34 Entry / Exit	
(1)AA Medical	(1)35 Day / Night	
(1)A1 Pendant Transmitter	(1)36 Outdoor	
(1)A2 Fail to Report In	(1)37 Tamper	
Fire Alarms	(1)38 Near Alarm	
(1)1A Fire Alarm	General Alarms	
(1)11 Smoke	(1)4A General Alarm	
(1)12 Combustion	(1)43 Exp. module failure	
(1)13 Water Flow	(1)44 Sensor tamper	
(1)14 Heat	(1)45 Module Tamper	
(1)15 Pull Station	(1)4A Cross Zone Police Code	
(1)16 Duct	24 Hour Non-Burglary	
(1)17 Flame	(1)5A 24 Hour non-Burg	
(1)18 Near Alarm	(1)51 Gas detected	
Panic Alarms	(1)52 Refrigeration	
(1)2A Panic	(1)53 Loss of Heat	
(1)21 Duress	(1)54 Water Leakage	
(1)22 Silent	(1)55 Foil Break	
(1)23 Audible	(1)56 Day Trouble	
Burglar Alarms	(1)57 Low bottled Gas level	
(1)3A Burglary	(1)58 High Temp	
(1)31 Perimeter	(1)59 Low Temp	
(1)32 Interior	(1)61 Loss of Air Flow	
(1)33 24 Hour		

SIA Format Automatic Zone Alarm/Restoral Codes

Zone Definition	SIA Auto Rep Codes*	Rep Codes*
Delay 1	BA-ZZ/BH-ZZ	(1) 3A
Delay 2	BA-ZZ/BH-ZZ	(1) 3A
Instant	BA-ZZ/BH-ZZ	(1) 3A
Interior	BA-ZZ/BH-ZZ	(1) 3A
Interior Stay/Away	BA-ZZ/BH-ZZ	(1) 3A
Delay Stay/Away	BA-ZZ/BH-ZZ	(1) 3A
24-Hr. Supervisory	US-ZZ/UR-ZZ	(1) 5A
24-Hr. Supervisory Buzzer	UA-ZZ/UH-ZZ	(1) 4A
24-Hr. Burg	BA-ZZ/BH-ZZ	(1) 3A
24-Hr. Gas	GA-ZZ/GH-ZZ	(1) 51
24-Hr. Heat	KA-ZZ/KH-ZZ	(1) 58
24-Hr. Medical	MA-ZZ/MH-ZZ	(1) AA
24-Hr. Panic	PA-ZZ/PH-ZZ	(1) 2A
24-Hr. Emergency	QA-ZZ/QH-ZZ	(1) A1
24-Hr. Water	WA-ZZ/WH-ZZ	(1) 54
24-Hr. Freeze	ZA-ZZ/ZH-ZZ	(1) 59
Interior Delay	BA-ZZ/BH-ZZ	(1) 3A
Instant Stay/Away	BA-ZZ/BH-ZZ	(1) 3A
24-Hr. Non-latching Tamper	TA-ZZ/TR-ZZ	(3) 83
Night Zone	BA-ZZ/BH-ZZ	(1) 3A
Delayed 24-Hr. Fire (Wireless)	FA-ZZ/FH-ZZ	(1) 1A
Standard 24-Hr. Fire (Wireless)	FA-ZZ/FH-ZZ	(1) 1A
24-Hr. Auto Verified Fire (Wireless)	FA-ZZ/FH-ZZ	(1) 1A
		* ZZ = zones 01-34

Appendix B: Communicator Format Options

The following format options are programmable in section [350] on page 22

01 20 BPS, 1400 Hz handshake 02 20 BPS, 2300 Hz handshake

• BPS Formats - 0 is not valid in Account or Rep Code (A must be used)

Depending on the pulse format selected the panel will communicate using the following:

- 3/1, 3/2, 4/1 or 4/2
- 1400 or 2300 Hz handshake
- 20 bits per second
- non-extended

The digit '0' will send no pulses and is used as a filler. When programming account numbers enter four digits. When programming a three digit account number the fourth digit must be programmed as a plain '0' which will act as a filler digit. If an account number has a '0' in it, substitute a HEX digit 'A' for the '0'. Examples:

- 3 digit account number [123]- program [1230]
- 3 digit account number [502] program [5A20]
- 4 digit account number [4079] program [4A79]

When programming reporting codes two digits must be entered. If one digit reporting codes are to be used the second digit must be programmed as a '0'. If a '0' is to be transmitted substitute a HEX digit 'A' for the '0'.

- Examples:
 - 1 digit reporting code [3] program [30]
 - 2 digit reporting code [30] program [3A]

To prevent the panel from reporting an event program the reporting code for the event as [00] or [FF].

03 DTMF Contact ID

· ADEMCO Contact ID - 0 is not valid in Account or Rep Code (A must be used, 10 in checksum)

Contact ID is a specialized format that will communicate information quickly using tones rather than pulses. In addition to sending information more quickly the format also allows more information to be sent. For example, rather than reporting an alarm zone 1 the Contact ID format can also report the type of alarm, such as Entry/Exit alarm zone 1.

If **Contact ID Sends Automatic Reporting Codes** is selected, the panel will automatically generate a reporting code for each event. These identifiers are listed in Appendix A. If the Automatic Contact ID option is not selected, reporting codes must be programmed. The 2-digit entry determines the type of alarm. The panel will automatically generate all other information, including the zone number.

NOTE: If the Automatic Contact ID option is selected, the panel will automatically generate all zone and access code numbers, eliminating the need to program these items.

NOTE: The zone number for Zone Low Battery and Zone Fault events will not be identified when Programmed Contact ID is used.

If the Contact ID uses Automatic Reporting Codes option is enabled, the panel will operate as follows:

- If an event's reporting code is programmed as [00], the panel will not attempt to call the central station
- If the reporting code for an event is programmed as anything from [01] to [FF], the panel will automatically generate the zone or access code number. See Appendix A for a list of the codes which will be transmitted

If the **Contact ID uses Programmed Reporting Codes** option is enabled, the panel will operate as follows:

If an event's reporting code is programmed as [00] or [FF], the panel will not attempt to call central station
If the reporting code for an event is programmed as anything from [01] to [FE], the panel will send the programmed

reporting code Account numbers must be four digits.

- If the digit '0' is in the account number substitute the HEX digit 'A' for the '0'
- All reporting codes must be two digits
- If the digit '0' is in the reporting code substitute the HEX digit 'A' for the '0'
- To prevent the panel from reporting an event program the reporting code for the event as [00] or [FF]

See Contact ID Sends Automatic Reporting Codes Section [381], Option [7].

04 SIA FSK

- SIA -0 is valid in Account or Rep Code (do not use 00 in a Reporting code)
- This format uses 300 Baud FSK as the communication media. The Account Code can be 4 or 6 hexadecimal digits in length, All reporting codes must be 2 digits in length. The SIA format will transmit a 4 (or 6) digit account code, a 2 digit identifier code and a 2 digit reporting code. The 2 digit identifier is pre programmed by the panel

SIA is a specialized format that will communicate information quickly using frequency shift keying (FSK) rather than pulses. The SIA format will automatically generate the type of signal being transmitted, such as Burglary, Fire, Panic etc. The two digit reporting code is used to identify the zone or access code number.

If the SIA format is selected the panel can be programmed to automatically generate all zone and access code numbers eliminating the need to program these items.

If the SIA Sends Automatic Reporting Codes option is enabled the panel will operate as follows:

- 1. If the reporting code for an event is programmed as [00] the panel will not attempt to call the central station.
- 2. If the reporting code for an event is programmed as anything from [01] to [FF] the panel will AUTOMATICALLY generate the zone or access code number.
- 3. Bypassed zones will always be identified when partial closing the system.

The Communicator Call Direction Options can be used to disable reporting of events such as Openings/Closings. Also, if all the Opening/Closing reporting codes were programmed as [00] the panel would not report.

If the SIA Sends Automatic Reporting Codes option is disabled the panel will operate as follows:

- 1. If the reporting code for an event is programmed as [00] or [FF] the panel will not attempt to call the central station.
- 2. If the reporting code for an event is programmed as anything from [01] to [FE] the panel will send the programmed reporting code.
- 3. Bypassed zones will not be identified when partial closing the system.

NOTE: The zone number for Zone Low Battery and Zone Fault events will not be identified when Programmed SIA is used.

See: SIA Sends Automatic Reporting Codes - Section [381], Option [3], Communicator Call Direction Options - Section [351] to [376], SIA Identifiers - Appendix A

05 Pager

The **Communicator Format** option for either telephone number can be programmed for Pager Format. If an event occurs and the **Communicator Call Direction** options direct the call to a telephone number with the Pager Format selected the panel will attempt to page.

When calling a pager, extra digits will be required to make it work properly. The following is a list of Hex digits and what function they perform:

Hex [A] - not used.

Hex [B] - simulates the [*] key on a touch tone telephone.

Hex [C] - simulates the [#] key on a touch tone telephone.

- Hex [D] forces the panel to search for dial tone.
- Hex [E] two second pause.

Hex [F] - end of telephone number marker.

The panel will attempt to call the pager one time. After dialing the digits in the telephone number the panel will send the account number and reporting code followed by the [#] key (Hex [C]).

There is no ring-back when using Pager Format. The panel has no way of confirming if the pager was called successfully; a failure to communicate trouble will only be generated once the maximum number of attempts has been reached.

NOTE: Do not use the digit C in a reporting code when using Pager Format. In most cases, the digit C will be interpreted as a [#], which will terminate the page before it has finished.

NOTE: If the panel detects a busy signal, it will attempt to page again. It will make the maximum number of attempts programmed in section [165]. Force dialing should be disabled when using Pager format.

NOTE: When using Pager format, you must program two hex digit E's at the end of the telephone number.

06 Residential Dial

If Residential Dial is programmed and an event that is programmed to communicate occurs, the panel will seize the line and dial the appropriate telephone number(s). Once the dialing is complete, the panel will emit an ID tone and wait for a handshake (press a 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, ***** or # key from any telephone). It will wait for this handshake for the duration of **Post Dial Wait for Handshake** timer. Once the panel receives the handshake, it will emit an alarm tone over the telephone line for 20 seconds. If several alarms occur at the same time, only one call will be made to each telephone number the panel is programmed to call.

Appendix C: Regulatory Approvals Information

Australia



This product meets the Safety, Telecom and other applicable technical standards set by ACMA and is able to be connected to the telephone network. The product is labeled with the A-tick compliance mark.

The following information is intended for use by the Central Station Operator.

NOTES:	

WARNING (Please read carefully)

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

Inadequate Installation

 Inadequate Installation
 A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operatio • Power Failure eration of the system.

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctua-tions which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended. Failure of Replaceable Batteries

Failure of Replaceable Batteries This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition. Compromise of Radio Frequency (Wireless) Devices Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference. System Users

System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how the mergend when the correct neutron indicates an element. how to respond when the system indicates an alarm.

Smoke Detectors

Sinoke detectors is a part of this system may not properly alert occupants of a fire for a number of rea-sons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the resi-

dence or building. Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson. Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

Motion Detectors

Motion Detectors
 Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.
 Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional succes of heat in or near the detection area. Some of these has sources could be heaters, radiators, stores, barbecnes, firenglaces, sumitient, sums, lighting and so on.

heaters, radiators, stoves, barbecues, fireplaces, sunlight, steam vents, lighting and so on. Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired

Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be pro-tected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings

Is information and the points may not occur in the to protect the occupants of their belongings.
• Component Failure
Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

Function as intended due to the radiue of a component.
Inadequate Testing
Most problems that would prevent an alarm system from operating as intended can be found by regular test-ing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

Limited Warranty

Digital Security Controls (DSC) warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Digital Security Controls in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from DSC. Custom products are only warranted to the extent that they do not function upon delivery. In such cases, DSC can replace or credit at its option. such cases, DSC can replace or credit at its option.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover: · damage incurred in shipping or handling;

- · damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- · damage due to causes beyond the control of Digital Security Controls such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- · damage caused by peripherals (unless such peripherals were supplied by DSC);
- · defects caused by failure to provide a suitable installation environment for the products;
- · damage caused by use of the products for purposes other than those for which it was designed;
- · damage from improper maintenance;
- · damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair centre; (ii) products which are not identified with DSC's product label and lot number or serial number; (iii) products disassembled or repaired in such a manner as to adversely affect perforber of serial induction in produced unsakelined of replaced in such a infantier as to adversely affect period-mance or prevent adequate inspection or testing to verify any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at DSC's option. Products not covered by this warranty, or otherwise out of warranty due to age, misuse, or damage shall be evaluated, and a repair esti-mate shall be provided. No repair work will be performed until a valid purchase order is received from the Customer and a Return Merchandise Authorization number (RMA) is issued by DSC's Customer Service.

Digital Security Controls' liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdiction apply to any claim by or against DSC, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of Digital Security Controls. Digital Security Controls neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

Digital Security Controls will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls determines to be repairable will be repaired and returned. A set fee which Digital Security Controls has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

This publication covers the following model(s):

• SCW9045-433



