



# **NetworX Series**<sup>™</sup>

**NX-8 Commercial Fire Panel** 

**Installation and Startup** 

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These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to be met during installation, operation, and maintenance. If further information is desired or if particular problems arise that are not covered sufficiently for the purchaser's purpose, the matter should be referred to GE Security, Gladewater, Texas, USA.

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### Safety Symbol Legend

<b>A</b> Warning	Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in personal injury. * This symbol indicates electrical warnings and cautions.	
Caution	Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in damage to or destruction of equipment or property. ** This symbol indicates general warnings and cautions.	
ين Note	Indicates an essential or important procedure, instruction, condition, or statement.	
Tip	Indicates a user tip. Provides helpful information that is not normally defined in regular use, but from an experienced user.	
Enter	Indicates a key or button should be pressed to enter data.	

### 1. GENERAL DESCRIPTION

The NetworX NX-8-CF represents a new approach to security systems design. Drawing on our experience in the world market as the largest exporter of USA manufactured controls, the NetworX series is the most flexible, durable, and user-friendly control ever seen in our industry. Featuring sophisticated software, the NX-8-CF allows up to 99 users to interface with 48 zones, 8 partitions, and a host of integrated fire, access, verification, and input/output modules, all reported with the most comprehensive and fast SIA and Contact ID formats. The NetworX design allows a fully loaded system to be housed in one single metal enclosure, establishing for the first time, a logical solution and design response to modular systems. Up to 32 modules can be added to expand the capabilities of the NX-8-CF. Please refer to the current GE Security product catalog for detailed warranty information.

### 2. ORDERING INFORMATION

**MINIMUM SYSTEM CONFIGURATION** for local and central station protected premise unit UL Commercial Fire applications includes these *individual* modules:

PART #	DESCRIPTION	MIN QTY PER SYSTEM
► NX-8-CF-BO-FG	NX-8-CF Control Only	1
NX-148E-CF or	Alphanumeric LCD Keypad for Commercial Fire applications (red plastic)	2
NX-148E-CF-W	Alphanumeric LCD Keypad for Commercial Fire applications (white plastic)	
> NX-870E	Fire Supervision Module	1

#### PART # DESCRIPTION

NX-8-CF-KIT	NX-8 COMMERCIAL FIRE KIT
	Includes one NX-8-CF Control, (2) NX-148E-CF Red LCD Keypads, one NX-870E Fire
	Supervision module & one 16.5V, 50VA Transformer
NX-8-CF-KIT-W	NX-8 COMMERCIAL FIRE KIT
	Includes one NX-8-CF Control, (2) NX-148E-CF White LCD Keypads, one NX-870E Fire
	Supervision module & one 16.5V, 50VA Transformer

Other available NetworX modules:

NX-216E	16 Zone Expander Module
NX-320E	Smart Power Supply and Buss Extender
NX-507E	Seven Relay Module
NX-508E 🔶	Eight Output Module
NX-540E **	"Operator" Telephone Interface Module
NX-591E **	Cellemetry Interface

These products are not approved for Commercial Fire use with the UL listed NX-8-CF.

\*\* These products have not been tested and approved by Underwriters Laboratories, Inc.

### 3. GLOSSARY / INDEX

TERM	DESCRIPTION	LOC	PG
Abort	If enabled, the NX-8-CF will wait the programmed number of seconds in location 40 prior to sending an alarm. To abort the report, type in a code and press <u>CANCEL</u> . "Dialer Delay" must be enabled in the "Characteristic Select" of locations 110-149.		22 30
AC Fail Low Battery Report/Warning	The NX-8-CF can be programmed to report AC failure and/or Low37,Battery conditions to the central station. It can also be programmed39to sound the keypad immediately upon detection of the condition.39The AC failure report/warning can be delayed.39		
AC Power Low Battery Sounder Alert	If enabled, the NX-8-CF will beep the keypad sounder upon arming or disarming if the AC power is missing or a low battery has been detected.		18
Arm / Disarm Codes	n Codes The NX-8-CF can have 99 four-digit codes or 66 six-digit codes to 41 arm/disarm the control. All codes must have the same number of digits. The factory default for User #1 is ①②③④ when using a 4- digit code, or ①②③④⑤ for a 6-digit code. This code can then be used to enter the new arm/disarm codes.		23
Automatic Arming       If programmed, the NX-8-CF will Auto Arm at a specified time. At this time, the keypad will beep for 50 seconds before the panel arms. If the arming process is stopped by typing a code on the keypad, the NX-8-CF will attempt to arm 45 minutes later. This time will be extended if there is activity in the building. The Auto Arming of a partition can be programmed to be silent. If closing reports are sent, the user code will be 97.       52- <ul> <li>✓ For UL Commercial Burg installations, this feature shall be DISABLED</li> </ul>		23, 52-55,	18 25
Auto Cancel / Abort       If enabled, the Cancel and/or Abort features will be automatic (pressing CANCEL button is not required). The Cancel and Abort features, in locations 23 and 40 respectively, must be enabled to permit this Auto feature to work. For proper operation of these features, "Dialer Delay" must be enabled in the "Characteristic Select" of locations 110-149 Zone Types.		41	23
Automatic Bypass Instant Arming	When enabled, the control panel can automatically bypass interior follower zones if an exit is not detected during the exit delay time. Entry delay zones can also be made instant.	23 segments 1 & 3	18
Auto Test	This feature will cause the panel to call the central station to report a communicator test at a specified interval.       51         Ø Default ON.       Ø Default ON.		25
Auxiliary Outputs	The NX-8-CF has four programmable outputs that can be used to activate relays, LED's, etc.	45-50 Diagram	24 47
Auxiliary Power       The NX-8-CF will display a "Service Required" message on the keypad when too much current is drawn from any device powered by the system. This condition can be reported to the central station.       37		37	21

TERM	DESCRIPTION	LOC	PG
Box Tamper	The NX-8-CF has an input for a normally closed tamper switch (see terminal drawing). The Box Tamper can be programmed to report and/or sound the siren and/or the keypad. These terminals can be enabled or disabled in programming.		21
Built In Siren Driver	The NX-8-CF has a built-in 112db siren driver. When desired, this built-in driver can be easily converted to a 1-amp voltage output through programming.		21
Bypass Toggle	This feature will enable the end user to toggle (turn on or off) the bypass of an interior zone with the system armed by pressing BYPASS.		18
Cancel	If enabled, the NX-8-CF will send a "Cancel" report if when the system is disarmed and the [Cancel] button is pressed within 5 minutes of an alarm. "Dialer Delay" must be enabled in the "Characteristic Select" of locations 110-149.		18
Communication Formats	The NX-8-CF can report in Contact ID or SIA formats.	APPENDIX 1	44
Cross Zoning	This feature requires two or more trips on a zone or zones programmed as "cross zones" within a specified time before reporting an alarm. During the time between trips, the NX-8-CF can be programmed to sound the keypad and/or the siren. The NX-8-CF can also be programmed to report an alarm after two or more trips on the same zone. 37,39,40, 110-149		21, 30-32
Dual / Split / Multiple Reports	JItipleThe NX-8-CF can send communication reports to three different4, 1phone numbers for dual, split or multiple reports selectable by event16or partition.16		15-17
Duress Code	If a duress code is programmed the NX-8-CF will send a duress 44 signal whenever the panel is armed or disarmed with this code. If open/close reports are sent, the user code will be 254.		24
Entry-Guard	This unique low-level arming mode has been developed to reduce the most common source of false alarms. When armed as "Instant", the opening of any zones designated as "Entry Guard zone" will initiate the keypad sounder and start the entry delay before creating an alarm. All other zones will function as normal. This arming mode will encourage system owners to use their system more frequently when the premises are occupied.	111-149	30-32
	Sector State		
Exit Error	it Error       If enabled, the NX-8-CF will send an "Exit Error Report" if an entry/exit zone is faulted at the instant the exit delay expires. This report will be sent along with the user number that armed the system, if the panel is not disarmed before the entry delay expires. The alarm report will also be sent. Even if this feature is not enabled, the siren will sound if any entry/exit zone is faulted at the instant the exit delay expires.       23		18
Expander Trouble	The NX-8-CF will report expander trouble to the central station if enabled. This condition will display the "Service Required" message on the keypad even if not reported.	37	21
	expansion devices reported can be found on page 46.		L

TERM	DESCRIPTION	LOC	PG
Fail to Communicate	The NX-8-CF will display the "Service Required" message if a report fails to reach the central station. If enabled, when the next report is successfully communicated, a Fail to Communicate code will be reported.	37	21
Fire Alarm Verification	When enabled, the NX-8-CF will verify a Fire alarm by requiring more than one trip on a smoke detector within a specified time before creating an alarm.	40	22
	${\mathscr K}$ This feature is not approved for residential use in California.		
Force Arming	When enabled, the NX-8-CF can be Force Armed with zones violated. At the end of the exit delay, these zones will become bypassed. If these zones become secured any time during the arming cycle, they will be unbypassed and active in the system. If "Bypass Report" is enabled, the force arming zones can be programmed to report bypass when they are Force Armed (default), or to not report bypass even if "Bypass Report" is enabled.	37 and 111-149	21 & 30-32
	S For UL installations, this feature shall be DISABLED.		
Ground Fault	If the NX-870E is used, a fault of the earth ground can be reported to the central station. If it is not reported, this condition will display the "Service Required" message on the keypad.	37	21
Group Bypass	A designated group of zones can be programmed to bypass. Prior to arming, press $BYPASS$ $@$ $BYPASS$ $BYPASS$ .	111-149	30-32
	S For UL installations, this feature shall be DISABLED.		
Immediate Restore By Zone	The NX-8-CF can be programmed to send alarm and restore reports as soon as they occur, or wait until the siren time has expired.	37	21
Internal Event Log	Up to 185 events can be stored in memory along with the date and time of the event. <b>All reportable events report to the log.</b>		
Keypad Activated Panics	The NX-8-CF has three keypad-activated panics that will send reports to the central station:	23	18
<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul>	Auxiliary 1 (Fire), Auxiliary 2 (Medical), and Keypad Panic.		
	Auxiliary 1 will activate the steady (Fire) siren, Auxiliary 2 will sound the keypad, and the Keypad Panic can be programmed to be silent or audible (sound siren).		
Keypad Sounder Control	The NX-8-CF can be programmed to sound the keypad sounder for certain events.	39	22
Keypad Tamper	amperIf enabled, the NX-8-CF will disable the keypad for 60 seconds and communicate a tamper signal to the central station if 30 keypresses are entered without producing a valid code.23		18
Keyswitch Arm/Disarm	Any zone on the NX-8-CF can be programmed as a keyswitch zone. If this is done, a momentary short on this zone will arm/disarm the control. If opening/closing reports are sent, the user code will be 99.	DEFAULT ZONE TYPES	19
LED Extinguish	<b>tinguish</b> This feature will extinguish all LED's on the keypad, except the "Power" LED, after 60 seconds without a keypress. Pressing any numeric key will illuminate all LED's.		18
Log Full Report	A report can be sent to the central station when the event log is full.	37	21

TERM	DESCRIPTION	LOC	PG	
Lost Clock Service Light	The NX-8-CF can be programmed to display the "Service Required" message when the internal clock has an invalid time due to power loss.		21	
Manual Test	The NX-8-CF can be programmed to perform a bell and/or communicator test when <b>*</b> ④ is entered while the system is in the discussed state		21	
On Board Zone Disable	The eight zones on the NX-8-CF panel can be disabled in order to have a completely wireless alarm system.	37	21	
Partitions	The NX-8-CF can be partitioned into a maximum of eight separate systems with distinct reporting codes, user codes, and operating features for each system.	26-36	20-21	
Program Code	Factory default: 900 3 when using a 4-digit code and 900 300 if the 6-digit option is used. The program code can also be used as an Arm/Disarm code. If used as an Arm/Disarm code, and open/close reports are sent, the user code will be 255		23	
Quick Arm	<b>Arm</b> The NX-8-CF has a one-button "Quick Arm" feature, which can be used to arm the system by pressing <i>EXIT</i> or <i>STAY</i> on the keypad. If closing reports are sent, the user code will be 98.			
Recent Closing	osing If enabled, the NX-8-CF will send a "Recent Closing Report" to the central station if an alarm occurs within 5 minutes after the panel is armed. The user number that armed the system will also be sent.		18	
<b>Re-exit</b> The NX-8-CF has the ability to restart the exit delay for a quick exit without disarming the system by pressing <i>EXIT</i> while the system is armed.		23	18	
Relays	The NX-8-CF has two separate normally open and normally closed relay contacts for a variety of applications, including access control, home control/automation, wireless interfaces, and security functions.	<b>45-48,</b> TERMINAL DESCRIPTION	24 50	
Siren Blast For Arming	or The NX-8-CF can be programmed to give a one second siren blast when the panel is armed, at the end of the exit delay, or when the central station receiver acknowledges the closing report. It can also give one blast for remote (keyswitch) arming and two blasts for remote disarming.		21	
Siren Supervision	The NX-8-CF has a "Siren Supervision" circuit that will constantly monitor the siren on the NX-8-CF and can be programmed to report if the wires are cut.		21	
Silent Exit Option	<b>nt Exit Option</b> The exit delay can be silenced by pressing $\bigstar$ <i>EXIT</i> before arming the control panel or when using the re-exit feature. The exit delay can also be silenced permanently in all partitions.		21	
Start / End Programming	A report can be sent when local programming is started and ended.		21	

TERM	DESCRIPTION	LOC	PG
Swinger Shutdown	This feature allows a zone or zones to be automatically bypassed after a specified number of alarms. When a zone is tripped, the alarm 'counter' reflects "1" in memory. If a new (first) alarm is detected in a different zone, the counter remains at "1". If an alarm is detected on a previously tripped zone, the count increments to "2". The 'counter' will increment each time an alarm is detected on a zone with multiple trips. Bypassing will occur on the zone that causes the count to equal the number programmed in location 38; the 'counter' will reset to zero (0); and begin a new trip count where the next alarm will set the 'counter' to 1. If immediate restore is enabled in location 37, the alarms (and restores, if enabled) will be sent as they occur. If immediate restore is not enabled, a second or subsequent alarm will not be sent until the siren times out.	37, 38	21
Telenhone Line	E For UL installations, this feature shall be DISABLED.		
Monitor	The NX-8-CF has a Telephone Line Monitor that monitors the voltage and current of the telephone line for a detection of a faulted phone line. This condition can also be reported to the central station. If the report is enabled, only the Telephone Line Restore will be reported unless the NX-870E is being used.	37,39,40	21-22
Temporal Siren Disable	Joral SirenIf disabled, the Fire Siren will be steady and Fire Voltage Out will be the same as Burglary (continuous). Otherwise, the Fire Siren will be temporal.37		21
	Sector Se		
User Code	A four- or six-digit entry code used to arm or disarm the system.		
Walk-Test Mode	If enabled, entering * CHIME followed by a user code will allow a walk-through zone test where all zones become silent and local (non-reporting). The number of the faulted zone(s) will be displayed on the LCD keypad. It will also be entered into alarm memory and the internal log. To exit at any time during this mode, enter a user code. Otherwise the "Walk-Test Mode" will automatically exit after 15 minutes.	41	23
Wireless Sensor       The NX-8-CF will send a report to the central station when a wireless       37         Missing/Low Battery       The NX-8-CF will send a report to the central station when a wireless       37         Missing/Low Battery       The NX-8-CF will send a report to the central station when a wireless       37         Missing/Low Battery       The Service Required message will appear when either condition exists.       37		37	21
Zone Bypassed Sounder AlertIf this feature is enabled, the NX-8-CF will beep the keypad sounder23upon arming if a zone is bypassed.		23	18
Zone Types (Configurations)	The NX-8-CF has 20 programmable Zone Types that determine how each zone will function and report.	111-149, DEFAULT	30-32 19
	If any zone is programmed as a Fire Zone, that zone will be a Fire Zone in all partitions. (Example: If zone 2 is a Fire Zone in partition 1, then zone 2 will be a Fire Zone in all partitions.)	LUNE I YPES	

### 4. PROGRAMMING THE CONTROL

### ENTERING THE PROGRAM MODE

	Action	Result
Ċ	* 8	Enters the Program Mode.
		Prompts for the programming code.
Ċ	[Go To Program Code]	If the "Go To Program Code" is valid, the LCD screen will
	Factory Default is	prompt for the device address to program. You are now in the Program Mode and ready to select the module.

### SELECTING THE MODULE TO PROGRAM

Since all modules connected to the NX-8-CF are programmed through the keypad, the module you are programming should be the first entry.

	Action	Result
Ċ	<b>0</b> #	Programs the NX-8-CF Commercial Fire Panel
		• is the module number of the control and <b>#</b> is the entry key. Other module entry numbers can be found in their corresponding manuals.

### **PROGRAMMING A LOCATION**

Once the number of the module to be programmed has been entered, the LCD screen will prompt you for a location number. Any location can be accessed by directly entering the desired programming location followed by **#**. If the location entered is a valid location, the top line of the LCD screen will display the location number on the left and the segment number on the right. The bottom line of the display will show the current data. This data will be displayed and entered according to the type of data used (numerical, binary, or character data).

#### 1. NUMERICAL DATA

The top line of the display will show the current location number on the left and the segment number on the right. The data will be displayed on the bottom line. The hex equivalent will be shown in parenthesis. To change the data in the current location, enter the number followed by **\***. The data will be entered and the segment will be incremented by 1. The data for this segment will now be displayed. Continue this process until the last segment is programmed. When the last segment is reached, the keypad will prompt you for the next location. If you wish to exit this location before the last segment is reached, press **#**. This keypress will not save the changes made to current segment, but will exit the location.

Shortcut keys:



#### 2. BINARY DATA

The top line of the display will show the current location number on the left and the segment number on the right. The data will be displayed on the bottom line with the numbers 1-8 in the first 8 characters. If the number appears, this binary switch is on. If a minus sign (-) appears where the number should be, this switch is off. Toggle numbers on or off using the corresponding number digit (1 to toggle 1; 8 to toggle 8). When the numbers are in the desired state, enter **\***. The data will be entered and the segment will be incremented by 1. The data for this segment will now be displayed. Continue this process until the last segment is programmed. When the last segment is reached, the keypad will prompt for the next location. If you wish to exit this location before the last segment is reached, press **#**. This keypress will not save the changes made to current segment, but will exit the location. "Shortcut Keys" shown in Numerical Data can also be used for Binary Data.

#### 3. CHARACTER DATA

Character Data is used to enter LCD text when programming. (Refer to the NX-148ECF instruction manual for custom messages **\*9@** feature.) Custom zone descriptions and messages are stored character or ASCII data type. This information is programmed using the bottom line of the display as a text editor. Once a character location has been entered, the current data will be displayed on the bottom line. As is always the case, the top line will display the current location and segment number. The five (5) function keys, as well as the up and down arrow to the right of the display, are now used to edit the message prior to saving it back to the location storage. An underscore (\_) in the display indicates the current cursor location.

ys:	☞ ★	•••••	Saves character or word; moves cursor to right
		•••••	Moves cursor to left.
	☞ ▲ or ▼		Scrolls through available characters. (In Library Mode) Scrolls through available words. <i>Tip: Refer to the NX-148ECF instructions for more details.</i>
	STAY	•••••	Inserts blank space.
		••••	Deletes characters.
	C EXIT	•••••	Accesses the Library Tip: Refer to the NX-148ECF instructions for more details.
	C BYPASS	•••••	Makes the character "flash". (In Library Mode) Makes the entire word "flash".
	∽ #	••••	Exits the edit mode.

### **EXITING A LOCATION**

Action	Result
~ <b>*</b>	Saves the data and exits that location. <i>Tip: The <b>*</b> must be pressed or the data will not be saved.</i> <i>To exit before the last segment, press <b>#</b>.</i> You are now ready to program another location.

### EXITING THE PROGRAM MODE

	Action	Result
$\sim$	EXIT	Exits this program level. Advances to "Select a Module".
Ċ	EXIT	Exits the programming mode entirely.

### 5. LOADING FACTORY DEFAULTS

Action	Result

Follow procedures on page 11 to enter the Program Mode.

910#

 $\sim$ 

Keypad will beep 3 times (loading is in progress). The loading takes about 6 seconds.

### 6. ENROLLING MODULES AND KEYPADS

For supervision purposes, the NetworX control panel has the ability to automatically find and store in its memory the presence of all keypads, zone expanders, wireless receivers, and any other module connected to the data terminal. This allows these modules to be supervised by the control panel. **NOTE**: All modules should be connected and set to unique addresses prior to enrolling modules. To enroll the modules, enter the Program Mode of the NetworX control panel. When the Program Mode is exited, the control will enroll the devices. The enrolling process takes about 12 seconds, during which time the "Service Required" will be displayed. Once a module is enrolled, if it is not detected by the control, the "Service Required" will be displayed.

Please refer to the NX-148ECF installation manual for complete instructions on programming the keypads.

### 7. QUICK START INSTALLATION

For most routine installations, the "Quick Start" option will allow for enabling a majority of the options available with the NX-8-CF, when communicating in Contact ID or SIA formats and without partitioning. The "Quick Start" locations can be identified with ▶ located to the left of the location number in both the instructions and programming worksheets.

### 8. CONTROL PANEL PROGRAMMING LOCATIONS

#### LOCATION 0 - PHONE NUMBER 1

(20 segments, numerical data) The first telephone number is programmed in location 0. A "14" indicates the end of the phone number. A four-second delay can be programmed at any point in the phone number by programming a "13" in the appropriate segment. If tone dialing is desired, program a "15" in the segment where tone dialing should begin. If the entire number should be tone dialing, program a "15" in the first segment. Program an "11" for a "**\***", and a "12" for a "**#**".

#### LOCATION 1 - ACCOUNT CODE FOR THE PHONE #1

(6 segments, numerical data) The account code sent when Phone #1 is dialed is programmed in location 1. Program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

#### LOCATION 2 - COMMUNICATOR FORMAT FOR PHONE #1

(1 segment, numerical data) Location 2 contains the communicator format used to transmit to the receiver connected to Phone #1. Consult the instructions for your central station receiver to determine which format is compatible. Select a format from the list on the following page. If this location contains a "0", the built-in communicator will be disabled, and the NX-8-CF will function as a local only control.

#### LOCATION 3 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE #1

(2 segments, numerical data) **Segment 1- Dial attempts:** Location 3, Segment 1 is used to enter the number of dial attempts (1 to 15 Attempts) the communicator will make to Phone #1 before ending the notification process. Factory default is "8" and the communicator will make eight (8) attempts to the first number.

**Segment 2- Phone #1 Backup Control:** Programming a "**0**" in Segment 2 of this location will cause the NX-8-CF to make the designated number of attempts to Phone #2 before setting the "Fail To Communicate" condition and stop reporting. Programming a "**1**" in this segment will cause the NX-8-CF to stop trying to communicate after the designated number of attempts have been made to Phone #1. If a "**2**" is programmed in this segment, it will cause the NX-8-CF to make the dial attempts in increments of two. The first two attempts will be made to Phone #1, the next two attempts to Phone #2, then repeating until the total number of attempts designated in Segment 1 is completed.

DATA	FORMAT	DESCRIPTION
0	Local	Communicator is disabled
1 - 6	Reserved	
7	SIA with Area Modifier	Sends the area modifier with events associated with a partition. The receiver must be able to accept this modifier.
8 - 12	Reserved	
13	Contact ID	Contact ID - DTMF (see pages 44 and 45)
14	SIA	FSK (see pages 44 and 45)
15	Reserved	

#### Table 8-1 FORMAT SELECTIONS

### **REPORTING EVENTS TO PHONE NUMBER 1**

Phone #1 has two programming locations that are used to select which events are reported to this phone number. Location 4 is used to select which events are reported to Phone #1. Location 5 is used to select which partitions are reported to Phone #1. If dual or split reporting is not desired, location 4 should be used to select all events to Phone #1 and location 5 should be left at the factory default of "0". If dual or split reporting is desired, and the split is based on the event type (such as alarm, open/close, etc.), location 4 should be used to select only those events that should be reported to Phone #1 and location 5 should be left at the factory default of "0". If dual or split reporting is desired, and the split is based on the split is based on partition, location 4 should be programmed as a "0" and location 5 should be used to select those partitions that should be reported to Phone #1. If no events should be reported to Phone #1, both locations should be programmed as "0" (disabling all options).

#### LOCATION 4 - EVENTS REPORTED TO PHONE # 1

(2 segments, feature selection data)

#### Segment 1

- 1 = Alarms and Alarm Restores.
- 2 = Opening and Closings.
- 3 = Zone Bypass and Bypass Restores.
- 4 = Zone Trouble and Trouble Restores.
- 5 = Power Fail, Low Battery, Power Restore, and Low Battery Restore.
- 6 = Bell Cut, Telephone Line Cut, Bell Cut Restore, Telephone Line Restore.
- 7 = Test Reports.
- 8 = Start and End programming.

#### Segment 2

- 1 = Zone and Box Tamper and Tamper Restore.
- 2 = Auxiliary Power Overcurrent, Ground Fault, and Restore for both.
- 3 = Wireless Sensor Missing and Restore.
- 4 = Wireless Sensor Low Battery and Restore.
- 5 = Expander Trouble and Restore.
- 6 = Fail To Communicate.
- 7 = Reserved.
- 8 = Reserved.

#### LOCATION 5 - PARTITIONS REPORTED TO PHONE #1

(1 segment, feature selection data) Location 5 is used when events to be reported to a phone number are based upon the partition regardless of the event. If this location is used, location 4 should be programmed as "0".

#### Segment 1

1=Partition #15=Partition #52=Partition #26=Partition #63=Partition #37=Partition #74=Partition #48=Partition #8

#### LOCATION 6 - PROGRAMMING PHONE #2

(20 segments, numerical data) Phone #2 is programmed in location 6. A "14" indicates the end of the phone number. Delays of four seconds can be programmed at any point in the phone number by programming a "13" in the appropriate segment. If tone dialing is desired, program a "15" in the segment where tone dialing should begin. If the entire number should be tone dialing, program a "15" in the first segment. Program an "11" for a "**\***", and a "12" for a "**#**".

#### LOCATION 7 - ACCOUNT CODE FOR THE PHONE #2

(6 segments of numerical data) The account code sent when Phone #2 is dialed is programmed in location 7. Program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments. If this location is left unprogrammed, account code 1 will be used when the second phone number is dialed.

#### LOCATION 8 - COMMUNICATOR FORMAT FOR PHONE # 2

(1 segment, numerical data) Location 8 contains the communicator format used to transmit to the receiver connected to Phone #2. Consult the instruction manual for your central station receiver to determine which format is compatible If this location contains a "0", Phone #3 will use the same format programmed for Phone #1 in Location 2.

#### LOCATION 9 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE #2

(2 segments, numerical data)

#### Segment 1, Dial attempts

Segment 1 of Location 9 is used to enter the number of dial attempts (1 to 15 attempts) the communicator will make to Phone #2 before ending the notification process. Factory default is "8" and the communicator will make the same number of attempts as those programmed in location 3.

#### Segment 2, Phone #2 Backup Control

Programming a "0" in Segment 2 of this location will cause the NX-8-CF to make the designated number of attempts to Phone #1 before setting the "Fail To Communicate" condition and stop reporting. Programming a "1" in this segment will cause the NX-8-CF to stop trying to communicate after the designated number of attempts have been made to Phone #2. If a "2" is programmed in this segment, it will cause the NX-8-CF to make the dial attempts in increments of two. The first two attempts will be made to Phone #2, the next two attempts to Phone #1, then repeating until the total number of attempts designated in Segment 1 is completed.

### **REPORTING EVENTS TO PHONE NUMBER 2**

Phone #2 can be used to back up Phone #1 or for a second receiver to multi-report or split report events. Phone #2 has two programming locations that are used to select which events are reported to this phone number. Location 10 is used to select which events are reported to Phone #2, and location 11 is used to select which partitions are reported to Phone #2. If dual or split reporting is not desired, location 10 and location 11 should be left at the factory default of "0". If multi-reporting or split reporting is desired, and the split is based on the event type (such as alarm, open close etc.), location 10 should be used to select only those events that should be reported to Phone #2, and location 11 should be left at the factory default of "0". If dual or split reporting is desired, and the split is based on partition, then location 10 should be programmed as "0", and location 11 should be used to select those partitions that should be reported to the Phone #2. If no events should be reported to Phone #2, both locations should be "0".

#### LOCATION 10 - EVENTS REPORTED TO PHONE #2

(2 segments of feature selection data)

#### Segment 1

- 1 = Alarms and Alarm Restores.
- 2 = Opening and Closings.
- 3 = Zone Bypass and Bypass Restores.
- 4 = Zone Trouble and Trouble Restores.
- 5 = Power Fail, Low Battery, Power Restore, and Low Battery Restore.
- 6 = Bell Cut, Telephone Line Cut, Bell Cut Restore, Telephone Line Restore.
- 7 = Test Reports.
- 8 = Start and End programming.

#### Segment 2

- 1 = Zone and Box Tamper and Tamper Restore.
- 2 = Auxiliary Power Overcurrent and Ground Fault and Restore for both.
- 3 = Sensor Missing and Restore.
- 4 = Sensor Low Battery and Restore.
- 5 = Expander Trouble and Restore.
- 6 = Fail To Communicate.
- 7 = Reserved.
- 8 = Reserved.

#### LOCATION 11 - PARTITIONS REPORTED TO PHONE #2

(1 segment, feature selection data) Location 11 is used when events to be reported to a phone number are based upon the partition regardless of the event. If this location is used, location 10 should be "0".

#### Segment 1

- 1= Partition #1 5= Partition #5
- 2= Partition #2 6= Partition #6
- 3= Partition #3 7= Partition #7
- 4= Partition #4 8= Partition #8

#### LOCATION 12 - PROGRAMMING PHONE #3

(20 segments, numerical data) Phone #3 is programmed in location 12. A "14" indicates the end of the phone number. Delays of four seconds can be programmed at any point in the phone number by programming a "13" in the appropriate segment. If tone dialing is desired, program a "15" in the segment where tone dialing should begin. If the entire number should be tone dialing, program a "15" in the first segment. Program an "11" for a "**\***", and a "12" for a "**#**".

#### LOCATION 13 - ACCOUNT CODE FOR PHONE #3

(6 segments, numerical data) The account code sent when Phone #3 is dialed is programmed in location 13. Program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments. If location 6 is left unprogrammed, account code 1 will be used when the Phone #3 is dialed.

#### LOCATION 14 - COMMUNICATOR FORMAT FOR PHONE #3

(1 segment, numerical data) Location 14 contains the communicator format used to transmit to the receiver connected to phone #3. Consult the instruction manual for your central station receiver to determine which format is compatible. If this location contains a "0", Phone #3 will use the same format programmed for Phone #1 in Location 2.

#### LOCATION 15 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE #3

(2 segments, numerical data)

#### Segment 1, Dial Attempts

Segment 1 of Location 15 is used to enter the number of dial attempts (1 to 15 attempts) the communicator will try to Phone #3 before ending the notification process. Factory default is "0" and the communicator will make the same number of attempts as those programmed in location 3.

#### Segment 2, Phone # 3 Backup Control

Programming a "0" in Segment 2 of this location will cause the NX-8-CF to make the designated number of attempts to Phone #2 before setting the "Fail To Communicate" condition and stop reporting. Programming a "1" in this segment will cause the NX-8-CF to stop trying to communicate after the designated number of attempts have been made to Phone #3. If a "2" is programmed in this segment, it will cause the NX-8-CF to make the dial attempts in increments of two. The first two attempts will be made to Phone #3, the next two attempts to Phone #2, then repeating until the total number of attempts designated in Segment 1 is completed.

### **REPORTING EVENTS TO PHONE NUMBER 3**

Phone #3 can be used for a third receiver to multi-report or split report events. Phone #3 has two programming locations that are used to select which events are reported to this phone number. Location 16 is used to select which events are reported to Phone #3, and Location 17 is used to select which partitions are reported to Phone #3. If dual or split reporting is not desired, location 16 and location 17 should be left at the factory default of "0". If multi-reporting or split reporting is desired, and the split is based on the event type (such as alarm, open/close, etc.), then location 16 should be used to select only those events that should be reported to Phone #3 and location 17 should be left at the factory default of "0". If dual or split reporting is desired, and the split reporting is desired, and the split is based on the split is based on partition, then location 16 should be programmed to "0" and location 17 should be used to select those partitions that should be reported to Phone #3. If no events should be reported to Phone #3, both locations should be "0".

#### LOCATION 16 - EVENTS REPORTED TO PHONE #3

(2 segments, feature selection data)

#### Segment 1

- 1 = Alarms and Alarm Restores.
- 2 = Opening and Closings.
- 3 = Zone Bypass and Bypass Restores.
- 4 = Zone Trouble and Trouble Restores.
- 5 = Power Fail, Low Battery, Power Restore, and Low Battery Restore.
- 6 = Bell Cut, Telephone Line Cut, Bell Cut Restore, Telephone Line Restore.
- 7 = Test Reports.
- 8 = Start and End programming.

#### Segment 2

- 1 = Zone and Box Tamper and Tamper Restore.
- 2 = Auxiliary Power Overcurrent and Ground Fault and Restore for both.
- 3 = Sensor Missing and Restore.
- 4 = Sensor Low Battery and Restore.
- 5 = Expander Trouble and Restore.
- 6 = Fail To Communicate.
- 7 = Reserved.
- 8 = Reserved.

#### LOCATION 17 - PARTITIONS REPORTED TO PHONE #3

(1 segment, feature selection data) Location 17 is used when events to be reported to a phone number are based upon the partition regardless of the event. If this location is used, location 16 should be "0".

Segment 1

1=Partition #15=Partition #52=Partition #26=Partition #63=Partition #37=Partition #74=Partition #48=Partition #8

#### LOCATIONS 18-22 RESERVED

#### LOCATION 23 - PARTITION 1, FEATURE AND REPORT SELECTIONS

(3 segments, feature selection data) Location 23 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in location 23. Each of these features can be enabled by partition. For additional partition information see locations 88-109. If the feature selection location for any partition is left blank, that partition will use this location for the feature selection.

This location contains 3 segments of 8 features each. (Refer to GLOSSARY on page 6.)

#### Segment 1

- 1 = On enables the Quick Arm feature.
- 2 = On enables the Re-exit feature.
- 3 = On enables the Automatic Bypass feature.
- 4 = On enables the Silent Keypad Panic feature (overrides the audible panic selection).
- 5 = On enables the Audible Keypad Panic feature.
- 6 = On enables the Keypad Aux 1 feature (FIRE).
- 7 = On enables the Keypad Aux 2 feature (AUXILIARY).
- 8 = On enables the Keypad Multiple Code Attempt Tamper feature.

#### Segment 2

- 1 = On enables the LED Extinguish feature.
- 2 = On enables the Require Code for Bypassing feature.
- 3 = On enables the Zone Bypassed Sounder Alert feature.
- 4 = Reserved
- 5 = On enables Bypass toggle.
- 6 = On enables Silent Auto Arm.
- 7 = On enables the Automatic Instant feature.
- 8 = Reserved.

#### Segment 3

- 1 = On enables Opening and Closing reports.
- 2 = On enables Zone Bypass reporting.
- 3 = On enables Zone Restore reporting. Factory default is on.
- 4 = On enables Zone Trouble reporting. Factory default is on.
- 5 = On enables Zone Tamper reporting.
- 6 = On enables the Cancel reporting.
- 7 = On enables the Recent Closing report.
- 8 = On enables the Exit Error report.

#### LOCATION 24 - ENTRY / EXIT TIMERS

(4 segments, numerical data) Location 24 is used to program the Entry/Exit times. There are 2 separate Entry/Exit times.

Segment 1,	Entry time 1:	This is the entry time that will be used when a delay 1 zone type initiates an entry delay. Valid entries are 10-255 seconds.
Segment 2,	Exit time 1:	This is the exit time that will be used for all zones designated as delay 1. Valid entries are 10-255 seconds.
Segment 3,	Entry time 2:	This is the entry time that will be used when a delay 2 zone type initiates an entry delay. Valid entries are 10-255 seconds.
Segment 4,	Exit time 2:	This is the exit time that will be used for all zones designated as delay 2. Valid entries are 10-255 seconds.

### 9. DEFAULT ZONE TYPES (Configurations)

#### ✗ All Fire zones are pre-programmed for UL settings.

Zones can be programmed to be one of twenty different zone types (configurations). Zone types # 17 - 20 can be used for wireless or hardwired zones using European double EOL configuration. The default zone types are listed below. These zone types can be customized by programming locations 110-149.

#### Table 9-1 DEFAULT ZONE TYPES

DATA	DESCRIPTION		
1	DAY ZONE - Instant when system is armed trouble zone when system is disarmed.		
2	24-HOUR AUDIBLE - Creates an instant yelping siren alarm regardless of the armed state of the panel.		
2	ENTRY/EXIT DELAY 1- A trip will start entry delay 1. The lack of a trip during exit delay will enable the		
3	Automatic Bypass or Instant mode if so programmed.		
	FOLLOWER WITH AUTO- BYPASS DISABLED - This zone will be instant when the system is armed		
4	and no entry or exit delays are being timed. It is delayed during entry and exit delay times. This zone will		
-	not automatically bypass even if enabled in Segment 1 of Location 23.		
_	<b>INTERIOR FOLLOWER WITH AUTO- BYPASS ENABLED -</b> This zone will be instant when the system		
5	is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. This		
	Zone will automatically bypass if enabled in Segment 1 of Location 23.		
6	<b>INSTANT -</b> This zone creates an instant alarm whenever it is tripped and the Armed LED is on.		
7	<b>24 HOUR SILENT -</b> Creates an instant silent alarm regardless of the armed state of the control panel. It		
	Will not display on the keypad.		
	FIRE - This zone will light the Fire LED and sound the temporal siren each time the zone is shorted. It will also regidly flesh the Fire LED indicating a trauble if the zone is open NOTE. If any zone is programmed		
8	also rapidly flash the Fire LED findicating a trouble if the 20he is open. <b>NOTE</b> . If any 20he is programmed as a Fire Zone, that zone will be a Fire Zone in all partitions. (i.e. if zone 2 is a Fire Zone in partition 1		
	then zone 2 will be a Fire Zone in all partitions )		
	<b>ENTRY/EXIT DELAY 2-</b> A trip will start entry delay 2. The lack of a trip during exit delay will enable the		
9	Automatic Bypass or Instant mode if so programmed.		
4.0	24-HOUR SILENT SUPERVISED- Creates an instant silent alarm regardless of the armed state of the		
10	control panel. It will display on the keypad.		
44	<b>KEYSWITCH ZONE -</b> This zone type will arm and disarm the partition or partitions of the control panel		
11	that it resides in each time the zone is shorted. Keyswitch arming will report as user #99.		
	INTERIOR FOLLOWER WITH "CROSS ZONE" ENABLED - This zone will be instant when the system		
12	is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. If a		
	"Cross Zone" is not being timed it will start a "Cross Zone" timer. If a "Cross Zone" is being timed it will		
	create an instant alarm. This zone will automatically bypass when enabled in Segment 1 of Location 23.		
13	<b>INSTANTENTRY GUARD</b> - This zone creates an instant alarm whenever it is tripped and the Stay LED		
	Is off. It will start an entry delay time 2 if it is tripped and the system is armed and the Stay LED is on.		
14	ENTRY/EXIT DELAY 1 WITH GROUP BYPASS ENABLED - A trip will start entry delay 1. This zone will by pass when the "Group Bypass" command is entered at the keynad. The lack of a trip during exit delay.		
14	will enable the Automatic Bypass or Instant mode if so programmed		
	INTERIOR FOLLOWER WITH GROUP BYPASS ENABLED. This zone will be instant when the system		
	is armed and no entry or exit delays are being timed. It is delayed during entry/exit delay times. This zone		
15	will bypass when the "Group Bypass" command is entered at the keypad. This zone will automatically		
	bypass if enabled in Segment 1 of Location 23.		
16	SUPERVISORY - This zone creates an instant Sprinkler Supervisory report.		
	ENTRY/EXIT DELAY 1 WITH TAMPER ENABLED- A trip will start entry delay 1. The lack of a trip		
17	during exit delay will enable the Automatic Bypass or Instant mode if so programmed. This zone type		
	can be used to enable tamper on a wireless transmitter.		
	<b>INTERIOR FOLLOWER WITH TAMPER AND AUTO-BYPASS ENABLED</b> - This zone will be instant		
18	when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit		
	delay times. This zone will automatically bypass if enabled in Segment 1 of Location 23. This zone type		
	can be used to enable tamper on a wireless transmitter.		
19	INSTANT WITH TAMPER ENABLED - This zone creates an instant alarm whenever it is tripped and the		
	Armed LED is on. This zone type can be used to enable tamper on a wireless transmitter.		
20	during ovit delay will enable the Automatic Eveness or Instant mode if as programmed. This range function		
20	can be used to enable tamper on a wireless transmitter		
	לעוד אי אסיא ני טוומאוי נמוואטי טו מ אויטויסס נומוסוווננכו.		

#### LOCATION 25 - ZONES 1-8 ZONE TYPE

(8 segments, numerical data) Location 25 contains the Zone Type for zones 1-8. Segment 1 is for zone 1, and Segment 8 is for zone 8. Default Zone Types are found in Table 9-1 on page 19. To customize a Zone Type, see page 29.

#### LOCATION 26 - PARTITION SELECT, ZONES 1-8

(8 segments, feature selection data) Location 26 is used to select the partition(s) that zones 1 - 8 reside in. A zone may reside in any combination of the 8 partitions. If a burglary zone resides in more than 1 partition, it will only be active when all partitions it resides in are armed. A zone that resides in more than 1 partition will be reported to its lowest partition. Location 26 has 8 segments. Segment 1 corresponds to zone 1, and Segment 8 corresponds to zone 8.

Segments 1 – 8

- 1 =Partition #15=Partition #52 =Partition #26=Partition #63 =Partition #37=Partition #7
- 4= Partition #4 8= Partition #8

#### LOCATION 27 - ZONES 9-16 ZONE TYPE

(8 segments, numerical data) Location 27 contains the Zone Type for zones 9 -16. Segment 1 is for zone 9, Segment 8 is for zone 16. Default Zone Types are found in Table 9-1 on page 19. To customize a Zone Type, see page29.

#### LOCATION 28 - PARTITION SELECT, ZONES 9-16

(8 segments, feature selection data) Location 28 is used to select the partition(s) that zones 9-16 reside in. A zone may reside in any combination of the 8 partitions. If a burglary zone resides in more than 1 partition, it will only be active when all partitions it resides in are armed. A zone that resides in more than 1 partition will be reported to its lowest partition. Location 28 has 8 segments. Segment 1 corresponds to zone 9 and Segment 8 corresponds to zone 16.

Segments 1 - 8

 1=
 Partition #1
 5=
 Partition #5

 2=
 Partition #2
 6=
 Partition #6

 3=
 Partition #3
 7=
 Partition #7

 4=
 Partition #4
 8=
 Partition #8

#### LOCATION 29 - ZONES 17-24 ZONE TYPE

(8 segments, numerical data) Location 29 contains the Zone Type for zones 17-24. Segment 1 is for zone 17, Segment 8 is for zone 24. Default Zone Types are found in Table 9-1 on page 19. To customize a Zone Type, see page 29.

#### LOCATION 30 - PARTITION SELECT, ZONES 17-24

(8 segments, feature selection data) Location 30 is used to select the partition(s) that zones 17-24 reside in. A zone may reside in any combination of the 8 partitions. If a burglary zone resides in more than 1 partition, it will only be active when all partitions it resides in are armed. A zone that resides in more than 1 partition will be reported to its lowest partition. Location 30 has 8 segments. Segment 1 corresponds to zone 17 and Segment 8 corresponds to zone 24.

Segments 1 - 8

1=	Partition #1	5=	Partition #5
2=	Partition #2	6=	Partition #6
3=	Partition #3	7=	Partition #7
4=	Partition #4	8=	Partition #8

#### LOCATION 31 - ZONES 25-32 ZONE TYPE GROUP

(8 segments, numerical data) Location 31 contains the Zone Type for zones 25-32. Segment 1 is for zone 25, Segment 8 is for zone 32. Default Zone Types are found in Table 9-1 on page 19. To customize a Zone Type, see page 29.

#### LOCATION 32 - PARTITION SELECT, ZONES 25-32

(8 segments, feature selection data) Location 32 is used to select the partition(s) that zones 25-32 reside in. A zone may reside in any combination of the 8 partitions. If a burglary zone resides in more than 1 partition it will only be active when all partitions it resides in are armed. A zone that resides in more than 1 partition will be reported to its lowest partition. Segment 1 corresponds to zone 25 and Segment 8 corresponds to zone 32.

Segments 1 - 8

- 1=Partition #15=Partition #52=Partition #26=Partition #63=Partition #37=Partition #7
- $4 = Partition #4 \qquad 8 = Partition #8$

#### LOCATION 33 - ZONES 33-40 ZONE TYPE

(8 segments, numerical data) Location 33 contains the Zone Type for zones 33-40. Segment 1 is for zone 33 Segment 8 is for zone 40. Default Zone Types are found in Table 9-1 on page 19. To customize a Zone Type, see page 29.

#### LOCATION 34 - PARTITION SELECT, ZONES 33-40

(8 segments, feature selection data) Location 34 is used to select the partition(s) that zones 33-40 reside in. A zone may reside in any combination of the 8 partitions. If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition. Segment 1 corresponds to zone 33 and Segment 8 corresponds to zone 40.

Segments 1-8

-	-		
1=	Partition #1	5=	Partition #5
2=	Partition #2	6=	Partition #6
3=	Partition #3	7=	Partition #7
4=	Partition #4	8=	Partition #8

#### LOCATION 35 - ZONES 41-48 ZONE TYPE

(8 segments, numerical data) Location 35 contains the Zone type for zones 41-48. Segment 1 is for zone 41 Segment 8 is for zone 48. Default Zone Types are found in Table 9-1 on page 19. To customize a Zone Type, see page 29.

#### LOCATION 36 - PARTITION SELECT, ZONES 41-48

(8 segments, feature selection data) Location 36 is used to select the partition or partitions that zones 41-48 reside in. A zone may reside in any combination of the 8 partitions. If a burglary zone resides in more than 1 partition it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition. Location 36 has 8 segments. Segment 1 corresponds to zone 41 and Segment 8 corresponds to zone 48.

Segments 1 – 8

1=Partition #15=Partition #52=Partition #26=Partition #63=Partition #37=Partition #74=Partition #48=Partition #8

#### LOCATION 37 - SIREN AND SYSTEM SUPERVISION

(5 segments, feature selection data) Location 37 is used to enable various system feature and reporting options. (Refer to GLOSSARY on page 6.)

#### Segment 1

- 1 = On if siren sounds for "Telephone Line Cut" when armed.
- 2 = On if siren sounds for "Telephone Line Cut" when disarmed.
- 3 = On if siren blast at arming.
- 4 = On if siren blast at exit expiration.
- 5 = On if siren blast at closing kissoff.
- 6 = On if siren sounds during a "Cross Zone" verification time.
- 7 = On if siren sounds for a Zone or Box Tamper.
- 8 = On if siren blasts 1 time for keyswitch or wireless arming; 2 times for disarming.

#### Segment 2

- 1 = On if siren driver should be a voltage output. Off if on board siren driver enabled.
- 2 = On if siren sounds for expander trouble (required for UL installations).
- 3 = On for Immediate Restore by zone. Off for zones to restore only when siren is off.
- 4 = Reserved.
- 5 = On if Battery Missing Test is performed every 12 seconds.
- 6 = On if Manual Bell Test performed during [\*]-[4] test function.
- 7 = On if Manual Communicator Test performed during [\*]- [4] test function.
- 8 = On if Box Tamper terminals on the control panel are enabled.

#### Segment 3

- 1 = On if Box Tamper report enabled.
- 2 = On if AC Fail reporting enabled.
- 3 = On if Low Battery reporting enabled.
- 4 = On if Aux. Power Overcurrent report enabled.
- 5 = On if Siren Supervision report enabled.
- 6 = On if Telephone Line Cut report enabled.
- 7 = On if Ground Fault Detection report enabled.
- 8 = On if Expander Trouble reporting enabled.

#### Segment 4

- 1 = On if Fail To Communicate report enabled.
- 2 = On if Log Full report enabled.
- 3 = On if Autotest report enabled. (Required for UL installations.) Default is "on" (enabled).
- 4 = On if Start/End programming report enabled.
- 5 = Reserved.
- 6 = On if Sensor Low Battery report enabled.
- 7 = On if Sensor Missing report enabled.
- 8 = Reserved.

#### Segment 5

- 1 = On enables Lost Clock "Service Required" message.
- 2 = On enables NX-870E siren output to activate for FIRE ONLY. Default is off (disabled).
- 3 = On disables On-Board 8 zones.
- 4 = On will allow two trips on same cross-zone to activate an alarm.
- 5 = On will **not** allow zones that are force armed to report bypass.
- 6 = On enables Silent Exit option.
- 7 = Use internal crystal for clock.
- 8 = Disable Temporal Siren on Fire. NOTE: Use only if UL listed Siren device converts steady voltage to temporal.

#### LOCATION 38 - SWINGER SHUTDOWN COUNT

Location 38 contains the number of trips during an arming cycle that the NX-8-CF will allow before bypassing a zone. The count determination is described in the GLOSSARY on page 6. **NOTE: For UL installations, this feature shall** <u>be disabled.</u>

#### LOCATION 39 - KEYPAD SOUNDER CONTROL

(1 segment, feature selection data)

Segment 1

- 1 = On if keypad sounds for "Telephone Line Cut" when the system is armed.
- 2 = On if keypad sounds for "Telephone Line Cut" when disarmed.
- 3 = On if keypad sounds upon AC Power Failure.
- 4 = On if keypad sounds when a Low Battery is detected.
- 5 = On if keypad sounds during Cross Zone trip time.
- 6 = On if keypad sounds for zone and box tampers.
- 7 = Reserved.
- 8 = On if keypad sounds for expander trouble (required for UL installations).

#### ► LOCATION 40 - SYSTEM TIMERS

(10 segments, numerical data) Location 40 contains the duration of various system timing functions. Example: If you desire the duration of the Dynamic Battery Test to be 30 minutes, program [3]-[0]-[\*] in segment 1 of this location. The [3]-[0] is the number of minutes, and the [\*] stores the data and moves to the next segment of this location.

Segment 1 Dynamic Battery Test duration in minutes 0-255 minutes ("0" = no test)

S The "Dynamic Battery Test" feature cannot exceed four (4) hours. The dial delay shall be set to -0-.

- Segment 2 AC Fail report delay in 0-255 hours.
- Segment 3 Power Up Delay in seconds 0-60 seconds ("0" = no power up delay).
- Segment 4 Siren Time in minutes 1-255 minutes.
- Segment 5 Telephone Line Cut delay in seconds 10-175 seconds.
- Segment 6 Cross Zone time in minutes 0-255 ("0" = no cross zoning).
- Segment 7 Chime time in 50 mS (1/20th second) increments from 0-12 seconds ("0" = follows zone 255 latched).
- Segment 8 Dial delay in seconds 0-255 seconds ("0 " = no abort delay).
- Segment 9 Fire Alarm Verification time in seconds 120-240 seconds ("0" = no fire alarm verification). <u>NOTE</u>: This feature is not approved for residential use in California.
- Segment 10 Reserved

#### LOCATION 41 - SPECIAL FEATURES

(1 segment, feature selection data)

#### Segment 1

- 1 = On enables the 6-digit code option. If 6-digit option is enabled, all arm/disarm codes and the "Go To Program Code" are 6 digits. If this option is enabled, the default user 1 code is [1]-[2]-[3]-[4]-[5]-[6].
   NOTE: IF YOU ENABLE THIS OPTION, VERIFY THAT THE "GO TO PROGRAM CODE" IS A SIX-DIGIT CODE BEFORE EXITING PROGRAMMING.
- 2 = Reserved
- 3 = Enable Auto Cancel / Abort (Refer to GLOSSARY on page 6.)
- 4 = Enable Walk-Test Mode (Refer to GLOSSARY on page 6.)
- 5-8 Reserved.

#### LOCATION 42 - GO TO PROGRAM CODE

(6 segments, numerical data) Location 42 contains the "Go To Program Code". This location contains either a 4 or 6digit code. If the 6-digit code option is enabled in Location 41, THIS CODE MUST CONTAIN SIX (6) DIGITS. If this option is not enabled in location 41, the last 2 segments (digits) will be ignored. With the NX-8-CF disarmed, the "Go To Program Code" can be used to enter the Program Mode.

#### LOCATION 43 - GO TO PROGRAM CODE PARTITION AND AUTHORIZATION

(2 segments, feature selection) The "Go To Program Code" can be used as a standard arm/disarm code. When using the code to arm or disarm, the user ID is 255. (This code may not be changed in the Run Mode.)

#### Segment 1

- 1 = Reserved.
- 2 = On enables "Go To Program Code" as an arm only code.
- 3 = On enables "Go To Program Code" as an arm only after closing.
- 4 = On enables "Go To Program Code" as a master arm/disarm code (can change user codes)
- 5 = On enables "Go To Program Code" as an arm/disarm code.
- 6 = On enables "Go To Program Code" to bypass zones.
- 7 = On enables "Go To Program Code" opening and closing reports.
- 8 = Reserved.

#### Segment 2

- 1 = On enables the "Go To Program Code" for Partition #1.
- 2 = On enables the "Go To Program Code" for Partition #2.
- 3 = On enables the "Go To Program Code" for Partition #3.
- 4 = On enables the "Go To Program Code" for Partition #4.
- 5 = On enables the "Go To Program Code" for Partition #5.
- 6 = On enables the "Go To Program Code" for Partition #6.
- 7 = On enables the "Go To Program Code" for Partition #7.
- 8 = On enables the "Go To Program Code" for Partition #8.

#### LOCATION 44 - DURESS CODE

(6 segments, numerical data) Location 44 contains the Duress code. This Location contains either 4 or 6 digits. If the 6-digit code option is enabled in Location 41, THIS CODE MUST CONTAIN SIX (6) DIGITS. If the 6-digit option is not enabled in location 41, the last 2 digits will be ignored. If programmed, the duress code will work for all partitions.

#### LOCATION 45 - OUTPUTS 1-4 PARTITION SELECTION

(4 segments, feature selection data) Location 45 is used to select which partition(s) the events must occur in before the output will activate. Location 45 has 4 segments. Segments 1 and 2 correspond to relays/outputs 1 and 2, while segments 3 and 4 correspond to auxiliary outputs 3 and 4.

Segment 1	Segment 2	Segment 3	Segment 4
(Relay / Output 1)	(Relay / Output 2)	(Aux. Output 3)	(Aux. Output 4)
1= Partition #1	1= Partition #1	1= Partition #1	1= Partition #1
2= Partition #2	2= Partition #2	2= Partition #2	2= Partition #2
3= Partition #3	3= Partition #3	3= Partition #3	3= Partition #3
4= Partition #4	4= Partition #4	4= Partition #4	4= Partition #4
5= Partition #5	5= Partition #5	5= Partition #5	5= Partition #5
6= Partition #6	6= Partition #6	6= Partition #6	6= Partition #6
7= Partition #7	7= Partition #7	7= Partition #7	7= Partition #7
7= Partition #7	7= Partition #7	7= Partition #7	7= Partition #7
8= Partition #8	8= Partition #8	8= Partition #8	8= Partition #8

#### LOCATION 46 - OUTPUTS 1-4 SPECIAL TIMING

(4 segments, feature selection data) Location 46 contains special timing feature activation for outputs 1 - 4. Segments 1 and 2 correspond to relays/outputs 1 and 2, while segments 3 and 4 correspond to auxiliary outputs 3 and 4. **Segments 1 - 4** 

- 1 = On if output should be timed in minutes; Off if timed in seconds.
- 2 = On if output should latch; Off if output should be timed.
- 3 = On if output should stop timing upon code entry; Off if the output should continue to time upon code entry.
- 4 = On if output should only activate between the closing and opening time in loc. 52 & 53.
- 5 = On if output should only activate between the opening and closing time in loc. 52 & 53.
- 6 = On if output should be inverted (0 volts going to 12 volts when activated).
- 7 = Reserved.
- 8 = Reserved.

#### LOCATION 47 - RELAY / OUTPUT #1, EVENT AND TIME

(2 segments, numerical data)

- Segment 1: Use Table 9-2 on page 25 to select the event that will activate output relay/output 1.
- **Segment 2:** Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 1, Location 46). Programming a "0" makes the relay/output follow the event.

#### LOCATION 48 - RELAY / OUTPUT #2, EVENT AND TIME

(2 segments, numerical data)

- Segment 1: Use Table 9-2 on page 25 to select the event that will activate output relay/output 2.
- **Segment 2:** Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 2, Location 46). Programming a "0" makes the relay/output follow the event.

#### LOCATION 49- OUTPUT #3, EVENT AND TIME

(2 segments, numerical data)

- Segment 1: Use Table 9-2on page 25 to select the event that will activate output 3.
- **Segment 2:** Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 3, Location 46). Programming a "0" makes the output follow the event.

#### LOCATION 50- OUTPUT #4, EVENT AND TIME

(2 segments, numerical data)

- Segment 1: Use Table 9-2 on page 25 to select the event that will activate output 4.
- **Segment 2:** Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 4, Location 46). Programming a "0" makes the output follow the event.

DATA	EVENT	DATA	EVENT
0 √	Burglary Alarm	26	Fire Trouble
1 √	Fire Alarm	27	Chime
2 √	24 Hour Alarm	28 √	Expander Trouble
3 √	Trouble Alarm	29	Dynamic Battery Test Time
4 √	Tamper Alarm	30	Open Period
5	Yelping Siren (Burglary)	31	Closed Period
6	Temporal Siren (Fire)	32	Reserved
7	Any Siren	33	Line Seizure
8	Any Bypass	34	Ground Start
9	AC Fail	35	Fail To Communicate
10	Low Battery	36	Telephone Line Fault
11 √	Duress	37	Program Mode
12 √	Aux 1 Keypad Zone	38	Reserved
13 √	Aux 2 Keypad Zone	39	Ground Fault
14 √	Panic Keypad Zone	40	Short Circuit (Over-current)
15	Keypad Tamper	41	Box Tamper
16 √	Autotest	42	Siren Tamper
17	Alarm Memory	43	Any Open
18	Entry	44	Any Short
19	Exit	45	Any Fault (Open/ Short on Non-Fire Zone)
20	Entry or Exit	46 √	Any Alarm
21	Armed State	47	Beeping Keypad
22	Disarmed State	48 √	Code Entry (See note below)
23	Ready	49 �√	Key FOB Function 1
24	Not Ready	50 �√	Key FOB Function 2
25	Fire		

#### Table 9-2 AUXILIARY OUTPUT EVENT SELECTION

Events 49 & 50 require NX-408, NX-416, or NX-448 wireless receivers to operate.

 $\checkmark$  If set to follow condition, these events will be 1 second.

Notes : When Event 48 is programmed, it is possible to program a user code's authorization to select which output(s) a particular code will activate. (Refer to "Assigning User Authority" in the NX-148ECF installation manual.)

#### LOCATION 51 - AUTOTEST CONTROL

(4 segments, numerical data)

- Segment 1: Program a "1" if the interval is to be in hours; Program a "0" if in days. Add a "2" to suppress the daily test or a "3" to suppress the hourly test if any report has been sent.
- **Segment 2:** Program the Autotest interval from 1-255 hours/days.
- Segment 3: Program the Autotest report hour in 24-hour format (if the interval is in hours, this segment is ignored).
- **Segment 4:** Program the Autotest report time, number of minutes after the hour.

#### LOCATION 52 - OPENING TIME

(2 segments, numerical data) Location 52 contains the time in 24 hour format the NX-8-CF enables codes designated as arm only after closing. This time is only valid on those days programmed in location 54.

Opening time must be earlier than closing time for Auto Arm, Relays, Auxiliary Outputs, or Code Authorization to function properly.

**Segment 1:** Program the hour of the opening time.

**Segment 2:** Program the minutes after the hour of the opening time.

#### LOCATION 53 - CLOSING TIME/AUTOMATIC ARMING TIME

(2 segments, numerical data) Location 53 contains the time in 24 hour format the NX-8-CF disables the disarm capability for codes designated as arm only after closing. This is also the time the Automatic Arming sequence will begin (if enabled in location 55).

Opening time must be earlier than closing time for Auto Arm, Relays, Auxiliary Outputs, or Code Authorization to function properly.

**Segment 1:** Program the hour of the closing / auto arm time.

Segment 2: Program the minutes after the hour of the closing / auto arm time.

#### LOCATION 54 - DAYS OF THE WEEK EACH PARTITION IS OPEN

(8 Segments, feature selection data) Location 54 selects which days of the week each partition is open. On these days, "arm only after close window" codes will be able to arm and disarm during open window.

If any partition is not programmed to be opened and is programmed to Auto-Arm (Location 55), the NX-8-CF will try to arm every 45 minutes for the duration of the closed period.

On days not selected here, "arm only after close window" codes will not disarm. Segment 1 is for partition 1, and segment 8 is for partition 8. (Locations 52 and 53 for the opening and closing times for the open days.)

#### Segment 1-8

- 1 = Open on Sunday.
- 2 = Open on Monday.
- 3 = Open on Tuesday.
- 4 = Open on Wednesday.
- 5 = Open on Thursday.
- 6 = Open on Friday.
- 7 = Open on Saturday.
- 8 = Reserved.

#### LOCATION 55 - DAYS OF THE WEEK FOR AUTO ARMING IN PARTITIONS 1 THRU 8

(8 Segments, feature selection data) Location 55 selects which days each partition will auto arm. Segment 1 is for partition 1, and segment 8 is for partition 8. If a zone is faulted when the panel tries to auto arm, the zone will be bypassed.

#### Segments 1-8

- 1 = Auto Arming on Sunday.
- 2 = Auto Arming on Monday.
- 3 = Auto Arming on Tuesday.
- 4 = Auto Arming on Wednesday.
- 5 = Auto Arming on Thursday.
- 6 = Auto Arming on Friday.
- 7 = Auto Arming on Saturday.
- 8 = Reserved.

LOCATIONS 56 - 87 RESERVED.

LOCATIONS 88 – 109 ARE FOR PROGRAMMING DIFFERENT ACCOUNT CODES AND/OR FEATURES FOR EACH PARTITION. IF A LOCATION IS LEFT UNPROGRAMMED, THE FEATURE FOR PARTITION 1 AND ACCOUNT CODE FOR THE PHONE NUMBER WILL BE USED.

#### LOCATION 88 - ACCOUNT CODE FOR PARTITION 1

(6 segments, numerical data) Location 88 contains the account code sent when partition 1 is reported. If location 88 is left unprogrammed (all "10"s), then the account code corresponding to the Phone number dialed will be used. If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

#### LOCATION 89 - ACCOUNT CODE FOR PARTITION 2

(6 segments, numerical data) Location 89 contains the account code sent when partition 2 is reported. If location 89 is left unprogrammed (all "10"s), then the account code corresponding to the Phone number dialed will be used. If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long program all 6 segments.

#### LOCATION 90 - PARTITION 2 FEATURE AND REPORTING SELECTIONS

(3 segments, feature selection data) Location 90 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 3 segments, with eight possible features per segment. Refer to Location 23, Segments 1 - 3 on page 18 for the feature selections. If all segments are blank (nothing enabled), the features for partition 1 will be used.

#### LOCATION 91 - PARTITION 2 ENTRY EXIT TIMERS

(4 segments, numerical data) Location 91 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. If all segments are "0", the entry and exit times for partition 1 will be used.

Segment 1, Entry time 1:Entry time that will be used when a Delay 1 zone type initiates an entry delay.Segment 2, Exit time 1:Exit time that will be used for all zones designated as Delay 1.Segment 3, Entry time 2:Entry time that will be used when a Delay 2 zone type initiates an entry delay.Segment 4, Exit time 2:Exit time that will be used for all zones designated as Delay 2.

#### LOCATION 92 - ACCOUNT CODE FOR PARTITION 3

(6 segments, numerical data) The account code sent when partition 3 is reported is programmed in location 92. If **location 92 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long program all 6 segments.

#### LOCATION 93 - PARTITION 3 FEATURE AND REPORTING SELECTIONS

(3 segments, feature selection data) Location 93 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 3 segments, with eight possible features per segment. Refer to Location 23, Segments 1 - 3 on page 18 for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.** 

#### LOCATION 94 - PARTITION 3 ENTRY EXIT TIMERS

(4 segments, numerical data) Location 94 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. If all segments are "0", the entry and exit times for partition 1 will be used.

Segment 1, Entry time 1:	Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit time 1:	Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry time 2:	Entry time that will be used when a Delay 2 zone type initiates an entry delay.
Segment 4, Exit time 2:	Exit time that will be used for all zones designated as Delay 2.

#### LOCATION 95 - ACCOUNT CODE FOR PARTITION 4

(6 segments, numerical data) The account code sent when partition 4 is reported is programmed in location 95. If location 95 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used. If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

#### LOCATION 96 - PARTITION 4 FEATURE AND REPORTING SELECTIONS

(3 segments, feature selection data) Location 96 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 3 segments, with eight possible features per segment. Refer to Location 23, Segments 1 - 3 on page 18 for the feature selections. If all segments are blank (nothing enabled), the features for partition 1 will be used.

#### LOCATION 97 - PARTITION 4 ENTRY EXIT TIMERS

(4 segments, numerical data) Location 97 is used to enter in seconds the Entry and exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. If all segments are "0", the entry and exit times for partition 1 will be used.

Segment 1, Entry time 1:Entry time that will be used when a Delay 1 zone type initiates an entry delay.Segment 2, Exit time 1:Entry time that will be used for all zones designated as Delay 1.Segment 3, Entry time 2:Entry time that will be used when a Delay 2 zone type initiates an entry delay.Segment 4, Exit time 2:Entry time that will be used for all zones designated as Delay 2.

#### LOCATION 98 - ACCOUNT CODE FOR PARTITION 5

(6 segments, numerical data) The account code sent when partition 5 is reported is programmed in location 98. If location 98 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used. If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

#### LOCATION 99 - PARTITION 5 FEATURE AND REPORTING SELECTIONS

(3 segments, numerical data) Location 99 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 3 segments, with eight possible features per segment. Refer to Location 23, Segments 1 - 3 on page 18 for the feature selections. If all segments are blank (nothing enabled), the features for partition 1 will be used.

#### LOCATION 100 - PARTITION 5 ENTRY EXIT TIMERS

(4 segments, numerical data) Location 100 is used to enter in seconds the Entry and exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. If all segments are "0", the entry and exit times for partition 1 will be used.

Segment 1, Entry Time 1:Entry time that will be used when a delay 1 zone type initiates an entry delay.Segment 2, Exit Time 1:Entry time that will be used for all zones designated as delay 1.Segment 3, Entry Time 2:Entry time that will be used for all zones designated as delay 2.Segment 4, Exit Time 2:Entry time that will be used for all zones designated as delay 2.

#### LOCATION 101 - ACCOUNT CODE FOR PARTITION 6

(6 segments, numerical data) The account code sent when partition 6 is reported is programmed in location 101. If **location 101 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** Program the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

#### LOCATION 102 - PARTITION 6 FEATURE AND REPORTING SELECTIONS

(3 segments, feature selection data) Location 102 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 3 segments, with eight possible features per segment. Refer to Location 23, Segments 1 - 3 on page 18 for the feature selections. If all segments are blank (nothing enabled), the features for partition 1 will be used.

#### LOCATION 103 - PARTITION 6 ENTRY EXIT TIMERS

(4 segments, numerical data) Location 103 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. If all segments are "0", the entry and exit times for partition 1 will be used.

Segment 1, Entry Time 1:Entry time that will be used when a Delay 1 zone type initiates an entry delay.Segment 2, Exit Time 1:Exit time that will be used for all zones designated as Delay 1.Segment 3, Entry Time 2:Entry time that will be used when a Delay 2 zone type initiates an entry delay.Segment 4, Exit Time 2:Exit time that will be used for all zones designated as Delay 2.

#### LOCATION 104 - ACCOUNT CODE FOR PARTITION 7

(6 segments, numerical data) The account code sent when partition 7 is reported is programmed in location 104. If **location 104 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

#### LOCATION 105 - PARTITION 7 FEATURE AND REPORTING SELECTIONS

(3 segments, feature selection data) Location 105 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 3 segments, with eight possible features per segment. Refer to Location 23, Segments 1 - 3 on page 18 for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.** 

#### LOCATION 106 - PARTITION 7 ENTRY EXIT TIMERS

(4 segments, numerical data) Location 106 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. If all segments are "0", the entry and exit times for partition 1 will be used.

Segment 1, Entry Time 1:Entry time that will be used when a Delay 1 zone type initiates an entry delay.Segment 2, Exit Time 1:Exit time that will be used for all zones designated as Delay 1.Segment 3, Entry Time 2:Entry time that will be used when a Delay 2 zone type initiates an entry delay.Segment 4, Exit Time 2:Exit time that will be used for all zones designated as Delay 2.

#### LOCATION 107 - ACCOUNT CODE FOR PARTITION 8

(6 segments, numerical data) The account code sent when partition 8 is reported is programmed in location 107. If location 107 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used. If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

#### LOCATION 108 - PARTITION 8 FEATURE AND REPORTING SELECTIONS

(3 segments, feature selection data) Location 108 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 3 segments, with eight possible features per segment. Refer to Location 23, Segments 1 - 3 on page 18 for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.** 

#### LOCATION 109 - PARTITION 8 ENTRY EXIT TIMERS

(4 segments, numerical data) Location 109 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. If all segments are "0", the entry and exit times for partition 1 will be used.

Segment 1, Entry Time 1:	Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit Time 1:	Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry Time 2:	Entry time that will be used when a Delay 2 zone type initiates an entry Delay.
Segment 4, Exit Time 2:	Exit time that will be used for all zones designated as Delay 2.
-	

LOCATIONS 110 - 149 ARE USED TO CHANGE THE ZONE TYPES (Configurations) AS LISTED IN Table 9-1 ON PAGE 19. THESE LOCATIONS ARE CONSIDERED ADVANCED PROGRAMMING AND SHOULD ONLY BE CHANGED WITH A THOROUGH UNDERSTANDING OF THE OPERATION OF EACH BIT.

## FIRE ZONE CHARACTERISTICS ARE PRESET AND CANNOT BE CHANGED IN UL LISTED SYSTEMS. (LOCATIONS 110 –149)

#### LOCATION 110 - ZONE TYPE 1 ALARM EVENT CODE

(1 segment, numerical data) Location 110 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 111 - ZONE TYPE 1 CHARACTERISTIC SELECT

(3 segments, feature selection data)

**Segment 1:** 1 = Fire (turn on if this is a fire zone).

- 2 = 24 hour (turn on for non-fire 24 hour zones).
- 3 = Keyswitch zone. (normally open switch)
- 4 = Follower (turn on for burglary zones that are Instant during non-entry times).
- 5 = Delay 1 zone (follows timer 1 entry and exit times).
- 6 = Delay 2 zone (follows timer 2 entry and exit times).
- 7 = Interior (turn on if this zone should Automatically Bypass or Bypass for Stay Arming).
- 8 = Local only (turn on if this zone should not be reported).

#### **Segment 2:** 1 = On if Zone Type will beep the keypad for alarm.

- 2 = On if Zone Type will sound the yelping siren for alarm.
- 3 = On if Zone Type will sound the temporal siren for alarm.
- 4 = On if Zone Type will chime.
- 5 = On if Zone Type can be bypassed.
- 6 = On if Zone Type is included in the group shunt.
- 7 = On if Zone Type is force armable.
- 8 = On if Zone Type is entry guard.

#### **Segment 3:** 1 = On enables Sprinkler Supervisory

- 2 = On enables Double End Of Line Tamper zone. (Mainly used for tamper on wireless zones)
- 3 = On enables Trouble Reporting zone. (Day zone and Fire zones)
- 4 = On if Zone Type is a Cross Zone.
- 5 = On enables Dialer Delay zone. (Location 40, page 22)
- 6 = On if Zone Type will swinger shutdown. (Location 38, page 22)
- 7 = On enables Restore reporting.
- 8 = Reserved

#### LOCATION 112 - ZONE TYPE 2 ALARM EVENT CODE

(1 segment, numerical data) Location 112 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 113 - ZONE TYPE 2 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 114 - ZONE TYPE 3 ALARM EVENT CODE

(1 segment, numerical data) Location 114 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 115 - ZONE TYPE 3 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 116 - ZONE TYPE 4 ALARM EVENT CODE

(1 segment, numerical data) Location 116 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 117 - ZONE TYPE 4 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 118 - ZONE TYPE 5 ALARM EVENT CODE

(1 segment, numerical data) Location 118 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 119 - ZONE TYPE 5 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 120 - ZONE TYPE 6 ALARM EVENT CODE

(1 segment, numerical data) Location 120 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 121 - ZONE TYPE 6 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 122 - ZONE TYPE 7 ALARM EVENT CODE

(1 segment, numerical data) Location 122 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 123 - ZONE TYPE 7 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 124 - ZONE TYPE 8 ALARM EVENT CODE

(1 segment, numerical data) Location 124 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 125 - ZONE TYPE 8 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 126 - ZONE TYPE 9 ALARM EVENT CODE

(1 segment, numerical data) Location 126 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 127 - ZONE TYPE 9 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 128 - ZONE TYPE 10 ALARM EVENT CODE

(1 segment, numerical data) Location 128 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 129 - ZONE TYPE 10 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 130 - ZONE TYPE 11 ALARM EVENT CODE

(1 segment, numerical data) Location 130 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 131 - ZONE TYPE 11 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 132 - ZONE TYPE 12 ALARM EVENT CODE

(1 segment, numerical data) Location 132 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 133 - ZONE TYPE 12 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 134 - ZONE TYPE 13 ALARM EVENT CODE

(1 segment, numerical data) Location 134 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 135 - ZONE TYPE 13 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 136 - ZONE TYPE 14 ALARM EVENT CODE

(1 segment, numerical data) Location 136 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 137 - ZONE TYPE 14 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 138 - ZONE TYPE 15 ALARM EVENT CODE

(1 segment, numerical data) Location 138 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 139 - ZONE TYPE 15 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 140 - ZONE TYPE 16 ALARM EVENT CODE

(1 segment, numerical data) Location 140 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 141 - ZONE TYPE 16 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 142 - ZONE TYPE 17 ALARM EVENT CODE

(1 segment, numerical data) Location 142 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 143 - ZONE TYPE 17 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 144 - ZONE TYPE 18 ALARM EVENT CODE

(1 segment, numerical data) Location 144 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 145 - ZONE TYPE 18 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 146 - ZONE TYPE 19 ALARM EVENT CODE

(1 segment, numerical data) Location 146 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 147 - ZONE TYPE 19 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### LOCATION 148 - ZONE TYPE 20 ALARM EVENT CODE

(1 segment, numerical data) Location 148 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 45. The zone ID will be that zone that is in alarm.

#### LOCATION 149 - ZONE TYPE 20 CHARACTERISTIC SELECT

(3 segments, feature selection data) Use "Zone Type Characteristic Selections" described in Location 111.

#### **ZONE WORKSHEET**

1	25	
2	26	
3	27	
4	28	
5	29	
6	30	
7	31	
8	32	
9	33	
10	34	
11	35	
12	36	
13	37	
14	38	
15	39	
16	40	
17	41	
18	42	
19	43	
20	44	
21	45	
22	46	
23	47	
24	48	

### **10. NX-8-CF PROGRAMMING WORKSHEETS**

Factory defaults for segments are in **bold italics** text "Quick Start" locations are identified with the ▶ symbol.

L	00	PG	DESCRIPTION	DEFAULT	DATA
	0	4.4	DHONE #1	14-14-14-14-14-14-14-14-14-14-	
	0	14	PHONE #1	14-14-14-14-14-14-14-14-14	
	1	14	PHONE #1, ACCOUNT CODE	10 - 10 - 10 - 10 - 10 - 10	
	2	14	PHONE #1, REPORT FORMAT	0	
	S	14	PHONE #1, DIAL ATTEMPTS	8	
	5	14	BACKUP CONTROL	0	
	4	15	PHONE #1, SELECTING EVENTS 1	O REPORT TO PHONE #1	
			Segment #1	Segment #2	
			1 = Alarms and Restores 🛛	1 = Tampers 🛛	
			2 = Open/Close 🛛	2 = Short Circuit &Grd Fault 🛛	
			3 = Bypass 🛛	3 = Sensor Lost 🛛	
			4 = Zone Trouble D	4 = Sensor Low Battery D	
			5 = Power Trouble (AC Failure or	5 = Expander Trouble 🏼	
			Low Battery)	6 = Fail To Communicate 🏼	
			6 = Siren & Telephone Fault	7 = Reserved	
			$7 = 1 \text{ est Reports } \square$	8 = Reserved	
	5	15			#1
	5	15	Segment #1		#1
			$1 = \text{Partition } \#1 \square$		
			$2 - Partition #2 \square$		
			$3 = Partition #3 \square$		
			$4 = Partition #4 \square$		
			$5 = Partition #5 \square$		
			$6 = Partition #6 \square$		
			7 = Partition #7 $\Box$		
			8 = Partition #8 🗅		
	c	15		14-14-14-14-14-14-14-14-14-	
	0	15	FHONE #2	14-14-14-14-14-14-14-14-14-14	
	7	15	PHONE #2, ACCOUNT CODE	10 - 10 - 10 - 10 - 10 - 10	
	8	15	PHONE #2, REPORT FORMAT	0	
	a	15	PHONE #2, DIAL ATTEMPTS	8	
	5	10	BACKUP CONTROL	0	
	10	16	PHONE #2, SELECTING EVENTS T	O REPORT TO PHONE #2	
			Segment #1	Segment #2	
			1 = Alarms and Restores $\Box$	1 = Tampers 🗅	
			2 = Open/Close 🗅	2 = Short Circuit & Grd Fault	
			3 = Bypass 🛛	3 = Sensor Lost	
			4 = Zone Trouble	4 = Sensor Low Battery	
			5 = Power Trouble (AC Failure or	$5 = Expander Trouble \square$	
			Low Battery)	$6 = Fail Io Communicate \Box$	
			6 = Siren & Lelephone Fault		
				8 = Reserved	
			$7 = 1 \text{ est Reports } \square$ 8 = Program/Log Full $\square$	8 = Reserved	

LOC	PG	DESCRIPTION	DEFAULT	DATA
11	16	PHONE #2, SELECTING WHICH PA	RTITIONS REPORT TO PHONE	#2
		Segment #1		
		1 = Partition #1		
		2 = Partition #2		
		3 = Partition #3		
		$4 = Partition #4 \Box$		
		5 = Partition #5 $\Box$		
		$6 = Partition #6 \Box$		
		7 = Partition #7 $\Box$		
		8 = Partition #8		
12	16	PHONE #3	14-14-14-14-14-14-14-14-14-14-	·
			14-14-14-14-14-14-14-14-14	
13	17	PHONE #3, ACCOUNT CODE	10 - 10 - 10 - 10 - 10 - 10	
14	17	PHONE #3, REPORT FORMAT	0	
15	17	PHONE #3, DIAL ATTEMPTS	8	
10	17	BACKUP CONTROL	0	
16	17	PHONE #3, SELECTING EVENTS T	O REPORT TO PHONE #3	
		Segment #1	Segment #2	
		1 = Alarms and Restores $\Box$	1 = Tampers 🗅	
		2 = Open/Close 🗅	2 = Short Circuit & Grd Fault	
		3 = Bypass  □	3 = Sensor Lost 🗅	
		4 = Zone Trouble	4 = Sensor Low Battery	
		5 = Power Trouble (AC Failure or	$5 = Expander Trouble \square$	
		Low Battery)	$6 = Fail To Communicate \Box$	
		6 = Siren & Telephone Fault	7 = Reserved	
		$7 = 1 \text{ est Reports } \square$	8 = Reserved	
47	47			
17	17	PHONE #3, SELECTING WHICH PA	RTITIONS REPORT TO PHONE	#3
		Segment #1		
		$1 = Partition #1 \square$		
		$2 = \text{Partition #2} \square$		
		$3 = Partition #3 \square$		
		$4 = Partition #4 \Box$		
		$5 = Partition #5 \square$		
		$7 - Partition #7 \square$		
		$8 - Partition #8 \square$		
18 - 22	18			
> 23	18	PARTITION #1_FEATURE SELECT	ION	
P 20		Segment #1	Segment #2	Segment #3
		$1 - Ouick Arm \Box$	$1 - I ED$ extinguish enable $\Box$	$1 - Open/Close \square$
			2 = Require user code for	$2 = Bypass \square$
		$3 = Auto Bypass \square$	bypassing zones	$3 = \text{Restore } \square$
		4 = Silent Panic	$3 = Bvpass sounder alert \square$	$4 = Trouble \square$
		$5 = Audible Panic \square$	4 = Reserved	$5 = Tamper \square$
		$6 = Auxiliary 1 \Box$	$5 = Enable bypass toggle \Box$	$6 = Cancel \square$
		7 = Auxiliary 2 $\Box$	6 = Enable silent auto arm $\Box$	7 = Recent Closing $\Box$
		8 = Multi Keypress Tamper 🏼	7 = Enable automatic instant $\Box$	8 = Exit Error 🗅
			8 = Reserved	
▶ 24	18	ENTRY/EXIT TIMERS		
		Segment #1 (Entry Time #1)	30	
		Segment #2 (Exit Time #1)	60	
		Segment #3 (Entry Time #2)	30	
		Segment #4 (Exit Time #2)	60	
▶ 25	20		3-5-6-6-6-6-6	

L	00	PG	G DESCRIPTION DEFAULT DATA								
1	26	20	ZONES 1-8, P	ARTITION	SELECTIO	N (Segmen	t 1=Zone 1	thru Segm	ent 8=Zone	8)	
			Segments	1	2	3	4	5	6	7	8
			Partition #1	1 🗇	1 🗇	1 🗇	1 🛛	1 🛛	1 🛛	1 🗇	1 🗇
			Partition #2	2 🗅	2 🗆	2 🗖	2 🗆	2 🗖	2 🗖	2 🗖	2 🗖
			Partition #3	3 🗖	3 🗆	3 🗆	3 🗆	3 🗆	3 🗖	3 🗖	3 🗆
			Partition #4	4 🗆	4 🗆	4 🗆	4 🗆	4 🗆	4 🗆	4 🗆	4 🗆
			Partition #5	5 🗆	5 🗆	5 🗆	5 🗆	5 🗆	5 🖵	5 🖵	5 🗆
			Partition #6	6 🖵	6 🗆	6 🗆	6 🗆	6 🗆	6 🖵	6 🖵	6 🗆
			Partition #7								
	07	20	Partition #8							0 🖵	0 🗆
	21	20	ZONES 9-16,				0-0-0-0-0-0	0 thru Soar			-
	20	20	ZONES 9-10,					5 uniu Segi			0
			Segments			্য 1 নে	4	0 1 /7			0 1 /7
			Partition #1			2 🗆		2 🗆			2 🗆
			Partition #2	2 🗆	2 🗆	2 🗆	2 🗆	2 🗆	2 🗆	2 🗆	2 🗆
			Partition #3			4 🗆					3 G 4 D
			Partition #5	5 🗆	5 0	5 🗆	5 0	5 🗆	5 🗆	5 🗆	5 🗆
			Partition #6	$6 \square$	$\begin{array}{c} \bullet \\ \bullet \end{array}$	6 🗆	$6 \square$	6 🗆	$6 \square$	$6 \square$	6 🗆
			Partition #7	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆
			Partition #8	8 🗆	8 🗆	8 🗆	8 🗆	8 🗆	8 🗖	8 🗆	8 🗆
	29	20	ZONES 17-24	, ZONE T`	YPES	6-	6-6-6-6-6-6	6			
	30	20	ZONES 17-24	, PARTITI	ON SELECT	ION (Segm	ent 1=Zone	e 17 thru Se	gment 8=Z	 Cone 24)	
			Segments	1	2	3	4	5	6	7	8
			Partition #1	1 🗇	1 🗇	1 🛛	1 🛛	1 🛛	1 🛛	1 🛛	1 🛛
			Partition #2	2 🗅	2 🗅	2 🗅	2 🗅	2 🗅	2 🗅	2 🗅	2 🗅
			Partition #3	3 🗅	3 🗆	3 🗖	3 🗅	3 🗖	3 🗅	3 🗅	3 🗖
			Partition #4	4 🗅	4 🗅	4 🗅	4 🗆	4 🗆	4 🗅	4 🗅	4 🗆
			Partition #5	5 🗅	5 🗆	5 🗅	5 🗆	5 🗆	5 🗖	5 🗖	5 🗆
			Partition #6	6 🗖	6 🗆	6 🗖	6 🗆	6 🗆	6 🗖	6 🗖	6 🗖
			Partition #7	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆	7 🗆
Ļ			Partition #8	8 🗆	8 🗆	8 🗆	8 🗆	8 🗆	8 🗆	8 🗆	8 🗆
	31	20	ZONES 25-32	, ZONE T	YPES	6-	<u>6-6-6-6-6-6</u>	<u>6</u>			_
	32	21	ZONES 25-32	<u>, PARTITI</u>	ON SELECT	ION (Segn	nent 1=Zon	e 25 thru S	egment 8=2	<u>20ne 32)</u>	0
			Segments	1	2	3	4	5	6		8
			Partition #1								
			Partition #2			2 🗆					2 🗆
			Partition #3								
			Partition #4	5 0	5 0	5 🗆	5 0	5 🗆	5 🗆	4 G 5 D	5 🗆
			Partition #6	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆
			Partition #7	7 🗆		7 🗆		7 🗆		7 🗆	7 🗆
			Partition #8	8 🗖	8 🗆	8 🗆	8 🗆	8 🗆	8 🗖	8 🗆	8 🗆
	33	21	ZONES 33-40	ZONE T	YPES	6-	6-6-6-6-6-6	6			
_	34	21	ZONES 33-40	, PARTITI	ON SELECT	ION (Segn	nent 1=Zon	e 33 thru S	egment 8=2	<u></u> Zone 40)	_
			Segments	1	2	3	4	5	6	7	8
			Partition #1	1 🗇	1 🗇	1 🗇	1 🗇	1 🗇	1 🗇	1 🗇	1 🗇
			Partition #2	2 🗅	2 🗆	2 🗅	2 🗆	2 🗆	2 🗅	2 🗅	2 🗅
			Partition #3	3 🗅	3 🗆	3 🗆	3 🗆	3 🗆	3 🗆	3 🗆	3 🗆
			Partition #4	4 🗅	4 🗆	4 🗅	4 🗅	4 🗅	4 🗅	4 🗅	4 🗅
1			Partition #5	5 🗖	5 🗆	5 🗆	5 🗆	5 🗆	5 🗖	5 🗅	5 🗆
			Partition #6	6 🗖	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆
			Partition #7	7 🗖	7 🗆	7 🗅	7 🗅	7 🗅	7 🗅	7 🗅	7 🗅
			Partition #8	8 🗆	8 🗆	8 🗆	8 🗆	8 🗆	8 🗖	8 🗆	8 🗆

L	00	PG	DESCRIPTION			DEFAULT DATA					
	35	21	ZONES 41-48	, ZONE T`	YPES	6-6-6-6-6-6-6					
	36	21	ZONES 41-48	, PARTITI	ON SELECT	ION (Segn	nent 1=Zon	e 41 thru S	egment 8=2	Zone 48)	
			Segments	1	2	3	4	5	6	7	8
			Partition #1	1 🛛	1 🗇	1 🗇	1 🗇	1 🛛	1 🗇	1 🗇	1 🗇
			Partition #2	2 🗅	2 🗆	2 🗆	2 🗅	2 🗆	2 🗖	2 🗖	2 🗆
			Partition #3	3 🗅	3 🗆	3 🗆	3 🗅	3 🗆	3 🗖	3 🗆	3 🗆
			Partition #4	4 🗅	4 🗅	4 🗅	4 🗅	4 🗆	4 🗅	4 🗅	4 🗅
			Partition #5	5 🗅	5 🗅	5 🗅	5 🗅	5 🗆	5 🗅	5 🗅	5 🗅
			Partition #6	6 🗆	6 🗆	6 🗆	6 🗆	6 🗆	6 🗖	6 🗖	6 🗆
			Partition #7	7 🗅	7 🗆	7 🗆	7 🗅	7 🗆	7 🗖	7 🗖	7 🗆
			Partition #8	8 🗆	8 🗆	8 🗆	8 🖵	8 🗆	8 🗖	8 🗖	8 🗆
	37	21	SIREN AND S	YSTEM S	UPERVISIO	N					
			Segment #1								
			1 = Siren sou	nds for te	elephone line	e cut while	armed 🛛				
			2 = Siren sou	nds for te	elephone line	e cut while	disarmed				
			3 = Siren blast	at arming							
			4 = Siren blast	at exit de	lay expiration	ח 🗅					
			5 = Siren blast	at closing	j kissoff 🛯						
			6 = Siren soun	ids during	a cross zone	e verification	n time 🗅				
			7 = Siren sou	nds for a	tamper 🏼				_		
			8 = Siren blast	one time	for keyswitch	n arming, tw	o times for	disarming			
			Segment #2								
			1 = Convert si	ren driver	to voltage ou	it 🖵		_			
			2 = Siren sour	ids for exp	ander troubl	e (required	for U.L.)	1			
			3 = Immediate	Restore t	by zone 🗳						
			4 = Reserved	naing toot	norformed a	(am) 10 ana	anda 🗖				
			5 = Dattery ministry $6 = Manual base$	ssing lest	rformod du	/ery 12 sec		on 🗇			
			0 = Manual De	mmunicat	or test perfo	mg [ <b>*</b> ]-[4]	$[\mathbf{W}]_{[4]}$	t function	7		
			7 = Nation CO 8 - Box tampe	r onabled		imeu uunnų	J [ <b>*</b> ]-[4] les				
			Segment #3								
			1 – Boy Tamp	or ronort c							
			2 – AC Fail rei	ort enabl							
			3 = 1  ow Batter	v report e	nabled 🗆						
			4 = Auxiliary p	ower over	current repo	rt enabled					
			5 = Siren supe	ervision rei	port enabled		-				
			6 = Telephone	Line Cut	report enable	ed 🗆					
			7 = Ground Fa	ult Detect	ion report en	abled 🛯					
			$8 = Expander trouble report enabled \Box$								
			Segment #4								
1			1 = Failure To Communicate report enabled								
1			2 = Log Full report enabled								
1			3 = Autotest report enabled 🗅								
1			4 = Start and End Programming report enabled								
1			5 = Reserved		·						
1			6 = Sensor Lo	w Battery	report enable	ed 🗖					
1			7 = Sensor Mi	ssing repo	rt enabled	Ì					
			8 = Reserved								

L	.00	PG	DESCRIPTION	DEFAULT		DATA			
			Segment #5						
			1 = Lost Clock "Service Required" me	essage enable 🛯					
			2 = Enables NX-870E siren output to	activate for FIRE ONLY					
			3 = Disable on-board eight zones						
			4 = Enables two trips on the same cro	oss-zone to activate the	alarm 🛯				
			5 = Disables bypass reports for force	armed zones 🗅					
			6 = Silent exit 🗅						
			7 = Clock uses internal crystal						
			8 = Disable Temporal Siren on Fire (Do not disable on UL listed systems)						
	38	22	SWINGER SHUTDOWN COUNT	0		_			
	39	22	KEYPAD SOUNDER CONTROL						
			Segment #1						
			1 = Keypad sounds for Telephone	Line Cut when in the	Armed state 🏼				
			2 = Keypad sounds for Telephone	Line Cut when in the D	Disarmed state 🏼				
			3 = Keypad sounds upon AC Power	Failure ם					
			4 = Keypad sounds upon Low Battery	/ Detection					
			5 = Keypad sounds during Cross Zor	ne Trip Time 🛯					
			6 = Keypad sounds for Tamper Ala	nrm 🛛					
			/ = Reserved						
	40	00	8 = Keypad sounds for expander trou	ible (required for UL)					
	40	22			•				
			Segment #1 Dynamic Battery Test dur	ation (0-255 minutes)	0				
			Segment #2 AC Failure report delay	(0-255 nours)	5				
			Segment #3 Power Up Delay (0-60	seconds)	0				
			Segment #4 Siren Time (1-255 minu	utes)	8				
			Segment #5       Telephone Line Cut delay (10-175 seconds)       0						
			Segment #6 Cross Zone Time (0-25	5 minutes)	5				
			Segment #7 Chime Time in 50 mS i	ncrements (0-255)	3				
			Segment #8 Dialer delay (0-255 se	conds)	0				
			Segment #9 Fire Alarm Verification	Time (120-240 sec.)	0				
			Segment #10 Reserved						
	41	23	SPECIAL FEATURES						
			Segment #1						
			1 = Enables six digit code option. All	arm/disarm/Go To Prog	ram codes require s	six digits			
			2 = Reserved						
			3 = Enable Auto Cancel / Abort						
			$4 = \text{Enable Walk-Test Wode } \square$						
	12	22		071200					
	42	23	CO TO PROGRAM CODE DARTITIC						
	43	23	GO TO PROGRAM CODE PARTITIC						
			1 – Reconved						
			1 = Reserved 2 - Enables "Go To Program Code" :	as an arm only code 🗖					
			3 – Enables "Go To Program Code"	as an arm only after clos	ina 🗆				
			4 = Enables "Go To Program Code" a	as a master arm/disarm	ring 🛥 code (can change u	iser codes) 🔲			
			5 = Enables "Go To Program Code" a	as an arm/disarm code					
			6 = Enables "Go To Program Code" t	o bypass zones 🏼	-				
			$7 = Enables "Go To Program Code" opening and closing reports \Box$						
			8 = Reserved						
			Segment #2						
			1 = Enables "Go To Program Code	" for partition #1 🏼					
			2 = Enables "Go To Program Code	" for partition #2 🛛					
			3 = Enables "Go To Program Code	" for partition #3 🛛					
			4 = Enables "Go To Program Code" for partition #4						
			5 = Enables "Go To Program Code	" for partition #5 🛛					
			6 = Enables "Go To Program Code	" for partition #6 🏼					
			7 = Enables "Go To Program Code	" for partition #7 🏼					
		ļ	8 = Enables "Go To Program Code	" for partition #8 🛛					

LC	C	PG	DESCRIPTION	DEFAULT		DATA		
	44	24	DURESS CODE	15-15-15-15-1	5-15			
	45	24	<b>OUTPUTS 1-4 PARTITION SELECT</b>	ION				
			Segments		Relay1	Relay2	AuxOut3	AuxOut4
			Partition #1		1	1	1	1
			Partition #2		2	2	2	2
			Partition #3	3	3	3	3	
			Partition #4		4	4	4	4
			Partition #5		5	5	5	5
			Partition #6		6	6	6	6
			Partition #7	7	7	7	7	
			Partition #8		8	8	8	8
	46	24	OUTPUTS 1-4 SPECIAL TIMING		-	-	-	
			Segments		Relay1	Relay2	AuxOut3	AuxOut4
			Output timed in minutes.		1	1	1	1
			Output to latch.		2	2	2	2
			Output to stop timing upon user c	ode entry.	3	3	3	3
			Output to activate only between closi	ng & opening	4	4	4	4
			Output to activate only between oper	ning & closing	5	5	5	5
			Invert output (0 volts going to 12V wh	nen activated).	6	6	6	6
			Reserved		1	/	7	1
	47	0.4			8	8	8	8
	47	24	RELAY #1, EVENT & TIME	1 ( I			1	
			Segment #1: Program the event num	iber for relay #1	0=Burgia	ary alarm		
	40	0.1	Segment #2: Program the timing for	relay #1	10 se	conds		
	48	24	RELAY #2, EVENT & TIME					
			Segment #1: Program the event num	iber for relay #2	1=Fire	alarm		
	10		Segment #2: Program the timing for	relay #2	10 se	conds		
	49	24	AUXILIARY OUTPUT #3, EVENT &	TIME				
			Segment #1: Program the event num	iber for output #3	2= 24 Hour Alarm			
			Segment #2: Program the timing for	output #3	10 se	conds		
	50	25	AUXILIARY OUTPUT #4, EVENT &	TIME				
			Segment #1: Program the event num	iber for output #4	21-Arm	ed State		
<u> </u>			Segment #2: Program the timing for	output #4	0=Follow	condition		
	51	25	AUTOTEST CONTROL		1		1	
			Segment #1: Program a "1" if the inte	erval is hours, a "0" if		-		
			in days. Add a "2" to suppress the da	ally test or a "3" to		D		
			suppress the hourly test.					
			Segment #2: Program the autotest in	iterval from 1-255	2	24		
			days or nours.	and in O.4. Is such times				
			Segment #3: Program the autotest re	eport in 24-nour time		2		
			Iormat.					
			ofter the hour)	eport time (minutes		0		
	52	25						
	52	20	Segment #1: Program the hour of the	ononing time		0		
			Segment #2: Program the minutes after the hour of the			0		
			Segment #2: Program the minutes after the nour of the			0		
<u> </u>	53	26						
1	55	20	Segment #1: Program the hour of the	olosina time / auto				
			arming time	s or only time / auto	2	20		
			Segment #2: Program the minutes at	ter hour of closing /		_		
			auto arming time.	ter near er biobing/		0		

LOC	PG	DES	<b>SCRIPTION</b>			DEFAULT			DATA	
54	26	DAYS OF THE	E WEEK EA	CH PARTI	TION IS OF	PEN				
		Seaments	1	2	3	4	5	6	7	8
		Sunday	1	1	1	1	1	1	1	1
		Monday	2	2	2	2	2	2	2	2
		Tuesday	3	3	3	3	3	3	3	3
		Wednesdav	4	4	4	4	4	4	4	4
		Thursday	5	5	5	5	5	5	5	5
		Fridav	6	6	6	6	6	6	6	6
		Saturdav	7	7	7	7	7	7	7	7
		Reserved	8	8	8	8	8	8	8	8
55	26	DAYS OF THE	WEEK "A	UTO ARM	NG" WILL	OCCUR IN	PARTITIO	NS 1-8		
		Segments	1	2	3	4	5	6	7	8
		Sunday	1	1	1	1	1	1	1	1
		Monday	2	2	2	2	2	2	2	2
		Tuesday	3	3	3	3	3	3	3	3
		Wednesday	4	4	4	4	4	4	4	4
		Thursday	5	5	5	5	5	5	5	5
		Friday	6	6	6	6	6	6	6	6
		Saturday	7	7	7	7	7	7	7	7
		Reserved	8	8	8	8	8	8	8	8
56-87	26	RESERVED	0	0	0	0	0	Ŭ	0	0
88	27	PARTITION 1	ACCOUNT				10-10-10-	10-10-10		
89	27	PARTITION 2					10-10-10-	10-10-10		
90	27	PARTITION 2	FEATURE		ORTING SE	ELECTION	10 10 10			
00	-'	Segment #1	, , , , , , , , , , , , , , , , , , , ,		Segment #	£2		Segment #	±3	
		1 – Ouick Arm				vtinguish ei	nahle 🗆	1 – Open/		
		2 – Re-Evit	-		2 - Require			2 - Bypas		
		3 = Auto Bypa	ss 🗍		z – Requi	e user cour		3 = Restor	ie 🗆	
		4 – Silent Pan			3 – Bypas	sing zones	Jort 🗆	4 = Troubl	e 🗆	
		5 – Audible Pa			3 = Dypass			5 = Tampe	er 🗖	
		6 = Auxiliary 1				or olort	allery	6 = Cance		
		7 = Auxiliary 2			Sound		7 = Rece		t Closina 🗆	I
		8 = Multi Kevp	ress Tampe	er 🗖	5 = Enable	Silont Aut		8 = Fxit Fr	ror 🗆	
			rooo ramp		0 = Enable		Instant 🗆	0 – Exit El		
					8 = Reserv	/ed				
91	27	PARTITION 2	ENTRY/EX			.00				
01	-'	Segment #1 (	Entry Time	#1)				n		
		Segment #2 (	Exit Time #	1)						
		Segment #3 (	Entry Time	<u>+/</u> #2)				2 7		
		Segment #4 (	Exit Time #	2)				2 0		
92	27	PARTITION 3					10-10-10	-10-10-10		
93	27	PARTITION 3	FFATURE	AND REF	ORTING S	ELECTION	10 10 10	10 10 10		
		Segment #1			Segment #	<u>=====</u> #2		Segment #	#3	
		1 =Quick Arm			1 = I F D F	<u> </u>	nable 🗆	1 = Open/2	Close 🗆	
		$2 = \text{Re-Exit} \square$	-		2 – Requir	e user code	e for	2 = Bypas	s 🗆	
		3 = Auto Bypa	ss 🗆		2 – Roqui hypas	sina zones		3 = Restor	е 🗆	
		4 = Silent Pan	ic 🗆		3 = Bypas	s sounder a	lert 🗆	4 = Troubl	e 🗆	
		5 = Audible Pa	anic 🗆		4 - AC Po			5 = Tampe	er 🗆	
		6 = Auxiliarv 1			nung – t	er alert 🗆	attor y	6 = Cance		
		7 = Auxiliary 2			5 = Enable Bypass togole $\Box$ 7 = Recent Closing $\Box$					
		8 = Multi Kevp	ress Tampe	er 🗅	6 = Enable Silent Auto Arm  = 8 = Exit Error  =					
			<b>b</b> .		7 = Enable Automatic Instant					
		8 = Reserved								
94	27	PARTITION 3	ENTRY/EX		)			L		
		Segment #1 (	Entry Time	#1)			1	0		
		Segment #2 (	Exit Time #	1)				<u> </u>		
		Segment #2 (	Entry Time	<u>+/</u> #2)				<u>,</u>		
		Segment #4 (	Evit Time #	<u>,,,,</u> 2)				, n		
		Segment #4 (		<u> </u>			(			

LOC	PG	DESCRIPTION	DEFAULT			DATA
95	28	PARTITION 4, ACCOUNT CODE		10-10-10	-10-10-10	
96	28	PARTITION 4, FEATURE AND REF	ORTING SELECTION			•
		Segment #1	Segment #2		Segment #	#3
		1 =Quick Arm	1 = LED Extinguish e	nable 🛯	1 = Open/	Close 🗅
		2 = Re-Exit 🗅	2 = Require user code	e for	2 = Bypas	s 🖵
		3 = Auto Bypass 📮	bypassing zones	bypassing zones $\Box$ $3 = Res$		
		4 = Silent Panic	3 = Bypass sounder a	alert 🗅	4 = Troubl	e 🖵
		$5 = \text{Audible Panic} \Box$	4 = AC Power/Low Ba	attery	5 = Tampe	er 🖵
		$6 = Auxiliary 1 \square$	sounder alert $\Box$ 6 = Ca			
		$7 = \text{Auxiliary } 2 \square$	5 = Enable Bypass toggle  7 = Recent			
			6 = Enable Silent Aut			
			7 = Enable Automatic Instant			
07	20		8 = Reserved			
97	20	Segment #1 (Entry Time #1)	)		0	
		Segment #2 (Exit Time #1)			0	
		Segment #2 (Entry Time #2)			0	
		Segment #4 (Exit Time #2)			0	
08	28			10-10-10	0 _10_10_10	
99	28	PARTITION 5 FEATURE AND REF	PORTING SELECTION	10-10-10	-10-10-10	
00	20	Segment #1	Segment #2		Segment #	#3
		$1 = \text{Quick Arm } \square$	1 = LED Extinguish e	nable 🗆	1 = Open/	Close 🗆
		$2 = \text{Re-Exit} \square$	2 = Require user code	e for	2 = Bypas	s 🖬
		3 = Auto Bypass 📮	bypassing zones		3 = Restor	re 🖵
		4 = Silent Panic ם	3 = Bypass sounder a	alert 🗆	4 = Troubl	e 🖵
		5 = Audible Panic 🗅	4 = AC Power/Low Ba	atterv	5 = Tampe	er 🖵
		6 = Auxiliary 1 🗅	sounder alert	J	6 = Cance	
		7 = Auxiliary 2 🗅	5 = Enable Bypass to	ggle 🛯	7 = Recen	t Closing 📮
		8 = Multi Keypress Tamper 🏼	6 = Enable Silent Aut	o Arm 🛯	8 = Exit Ei	rror 🖵
			7 = Enable Automatic	Instant 🗅		
			8 = Reserved			
100	28	PARTITION 5 ENTRY/EXIT TIMERS	6			
		Segment #1 (Entry Time #1)			0	
		Segment #2 (Exit Time #1)			0	
		Segment #3 (Entry Time #2)			0	
101	20			10 10 10		
101	20 28	PARTITION 6, ACCOUNT CODE		10-10-10-	10-10-10	
102	20	Segment #1	Segment #2		Segment	#3
		$1 = Ouick Arm \Box$	1 – LED Extinguish e	nahle 🗆	1 – Open/	Close 🗆
		$2 = \text{Re-Exit} \square$	2 = Require user code		2 = Bypas	s 🗆
		$3 = Auto Bypass \Box$	bypassing zones		3 = Restor	re 🗆
		4 = Silent Panic	3 = Bypass sounder a	alert 🗆	4 = Troubl	e 🖵
		5 = Audible Panic 🗅	4 = AC Power/Low Ba	atterv	5 = Tampe	er 🗅
		6 = Auxiliary 1 🗅	sounder alert		6 = Cance	
		7 = Auxiliary 2 🗅	5 = Enable Bypass to	ggle 🛛	7 = Recen	t Closing 📮
		8 = Multi Keypress Tamper 🏼	6 = Enable Silent Aut	o Arm 🛯	8 = Exit Er	rror 🖵
			7 = Enable Automatic Instant			
			8 = Reserved			
103	29	PARTITION 6 ENTRY/EXIT TIMERS	5			
		Segment #1 (Entry Time #1)         0				
		Segment #2 (Exit Time #1)			0	
		Segment #3 (Entry Lime #2)			0	
1		Segment #4 (EXIT TIME #2)			U	1

LOC	PG	DESCRIPTION	DEFAULT			DATA		
104	29	PARTITION 7, ACCOUNT CODE		10-10-10	-10-10-10			
105	29	PARTITION 7, FEATURE AND REP	ORTING SELECTION			• •		
		Segment #1	Segment #2		Segment #	¥3		
		1 =Quick Arm 🛯	1 = LED Extinguish e	nable 🛯	1 = Open/	Close 🗅		
		2 = Re-Exit 🗅	2 = Require user code	e for	2 = Bypas	s 🖵		
		3 = Auto Bypass 📮	bypassing zones		3 = Restor	re 🖵		
		4 = Silent Panic 🗅	3 = Bypass sounder a	alert 🗅	4 = Troubl	e 🖵		
		5 = Audible Panic 🗅	4 = AC Power/Low Ba	attery	5 = Tampe	er 🖵		
		6 = Auxiliary 1 🗅	sounder alert		6 = Cance			
		7 = Auxiliary 2 🗅	5 = Enable Bypass to	ggle 🗅	7 = Recen	t Closing 📮		
		8 = Multi Keypress Tamper 🏼	6 = Enable Silent Auto Arm  = 8 = Exit Error  =					
			7 = Enable Automatic Instant					
			8 = Reserved					
106	29	PARTITION 7 ENTRY/EXIT TIMERS	6					
		Segment #1 (Entry Time #1)			0			
		Segment #2 (Exit Time #1)			0			
		Segment #3 (Entry Time #2)			0			
		Segment #4 (Exit Time #2)			0			
107	29	PARTITION 8, ACCOUNT CODE		10-10-10	-10-10-10			
108	29	PARTITION 8, FEATURE AND REP	ORTING SELECTION		-			
		Segment #1	Segment #2		Segment #	¥3		
		1 =Quick Arm	1 = LED Extinguish e	nable 🛛	1 = Open/	Close		
		2 = Re-Exit	2 = Require user code	e for	2 = Bypas	s Ц		
		$3 = Auto Bypass \Box$	bypassing zones		3 = Restor	re 🖵		
		$4 = \text{Silent Panic } \square$	3 = Bypass sounder a	alert 🖵	4 = 1 roubl			
		$5 = Audible Panic \Box$	4 = AC Power/Low Ba	attery	5 = Tampe			
		$O = Auxiliary T \Box$	sounder alert	anda 🕞	0 = Cance	t Closing 🗆		
		8 – Multi Keypress Tamper	5 = Enable Bypass to		8 - Evit Er			
			0 = Enable Silent Automatic					
			8 = Reserved					
109	29	PARTITION 8 ENTRY/EXIT TIMERS						
		Segment #1 (Entry Time #1)			0			
		Segment #2 (Exit Time #1)			0			
		Segment #3 (Entry Time #2)			0			
		Segment #4 (Exit Time #2)			0			
110	30	ZONE TYPE 1 ALARM EVENT COD	Ε		8			
111	30	ZONE TYPE 1 CHARACTERISTIC S	SELECT					
		Segment #1						
		1 = Fire (enable for fire zone)						
		2 = 24 Hour (enable for non-fire 24 h	our zone) 🗅					
		$3 = \text{Keyswitch zone } \Box$			. —			
		4 = Follower (enable for burg zones t	hat are instant during i	non-entry ti	mes) 🗅			
		5 = Delay 1 zone (enable to follow 1)	mer 1 Entry/Exit times					
		6 = Delay 2 201e (enable to follow 11 7 = Interior (Enable for auto hyperson	$(\text{Iner } Z \in \text{Intry} / E \times \text{Intre})$	s) 🗆				
		7 = 1110101 (E11able 101 auto bypass 08 = 1 ocal Only (enable if zone is not	to be reported)					
		Segment #2						
		1 = Keypad audible on alarm //						
		$2 = $ Yelping siren on alarm $\square$						
		$3 = \text{Temporal siren on alarm } \square$						
		4 = Chime 🗅						
		5 = Bypassable 🛛						
		6 = Group Shunt 🗅						
		7 = Force armable						
		8 = Entry Guard 📮						

LOC	PG	DESCRIPTION	DEFAULT		DATA
		Segment #3	-	-	
		1 = Sprinkler Supervisory			
		2 = Double End of Line Tamper zone			
		3 = Trouble zone (Day zone)			
		4 = Cross Zone			
		5 = Dialer Delay zone			
		6 = Swinger zone			
		7 = Restore reporting			
		o = Reserved			
110	20		E I	2	
112	30			2	
113	30	ZONE TYPE 2 ALARM EVENT COD		Z-125-76 7	
114	30	ZONE TYPE 3 ALARM EVENT COD		1	
110	21	ZONE TYPE 4 ALARM EVENT COD		5-1245-5076	
110	। 21			J 45-125-5679	
117	। 21	ZONE TYPE 5 ALARM EVENT COD		45-125-5076	
110	। 21			J 157-125-5679	
119	। 21	ZONE TYPE 6 ALARM EVENT COD		457-125-5076 A	
120	21			4	
121	31	ZONE TYPE 7 ALARM EVENT COD	F	0-1245-5078	
122	31	ZONE TYPE 7 CHARACTERISTIC S		2-0-78	
123	31	ZONE TYPE 8 ALARM EVENT COD	F	2-0-70	
124	31	ZONE TYPE & CHARACTERISTIC S		1-13-378	
125	31	ZONE TYPE 9 ALARM EVENT COD	F	7	
120	31	ZONE TYPE 9 CHARACTERISTIC S	SELECT	6-1245-5678	
127	31	ZONE TYPE 10 ALARM EVENT CO	DE	2	
120	31	ZONE TYPE 10 CHARACTERISTIC	SELECT	24-5-78	
130	31	ZONE TYPE 11 ALARM EVENT CO	DF	3	
131	31	ZONE TYPE 11 CHARACTERISTIC	SELECT	3-0-0	
132	31	ZONE TYPE 12 ALARM EVENT CO	DE	5	
133	32	ZONE TYPE 12 CHARACTERISTIC	SELECT	457-125-45678	
134	32	ZONE TYPE 13 ALARM EVENT CO	DE	4	
135	32	ZONE TYPE 13 CHARACTERISTIC	SELECT	0-12458-5678	
136	32	ZONE TYPE 14 ALARM EVENT CO	DE	7	
137	32	ZONE TYPE 14 CHARACTERISTIC	SELECT	5-12456-5678	
138	32	ZONE TYPE 15 ALARM EVENT CO	DE	5	
139	32	ZONE TYPE 15 CHARACTERISTIC	SELECT 4	457-1256-5678	
140	32	ZONE TYPE 16 ALARM EVENT CO	DE	Not Used	
141	32	ZONE TYPE 16 CHARACTERISTIC	SELECT	2-15-17	
142	32	ZONE TYPE 17 ALARM EVENT CO	DE	7	
143	32	ZONE TYPE 17 CHARACTERISTIC	SELECT	5-1245-25678	
144	32	ZONE TYPE 18 ALARM EVENT CO	DE	5	
145	32	ZONE TYPE 18 CHARACTERISTIC	SELECT 4	457-125-25678	
146	32	ZONE TYPE 19 ALARM EVENT CO	DE	4	
147	32	ZONE TYPE 19 CHARACTERISTIC	SELECT	0-1245-25678	
148	32	ZONE TYPE 20 ALARM EVENT CO	DE	7	
149	32	ZONE TYPE 20 CHARACTERISTIC	SELECT	6-1245-25678	

### 11. APPENDIX 1

#### **REPORTING FIXED CODES IN CONTACT ID AND SIA**

This table lists the event codes sent for the following reports (if enabled) when using CONTACT ID or SIA formats.

REPORT	CONTACT ID	SIA
MANUAL TEST	601	RX
AUTOTEST	602	RP
AUTOTEST – OFF NORMAL	608	RY
OPEN (user number)	401	OP
CLOSE (user number)	401	CL
CANCEL (user number)	406	OC
DOWNLOAD COMPLETE	412	RS
START PROGRAM	627	LB
END PROGRAM	628	LX
GROUND FAULT	310	GF
GROUND FAULT RESTORE	310	GK
RECENT CLOSE (user number)	401	CR
EXIT ERROR (user number)	457	EE
EVENT LOG FULL	605	JL
FAIL TO COMMUNICATE	354	RT
EXPANDER TROUBLE (device number)	333	ET
EXPANDER RESTORE (device number)	333	ER
TELEPHONE FAULT	351	LT
TELEPHONE RESTORE	351	LR
SIREN TAMPER (device number)	321	YA
SIREN RESTORE (device number)	321	YH
AUX POWER OVER CURRENT (device number	) 312	YP
AUX POWER RESTORE (device number)	312	YQ
LOW BATTERY (device number)	309	ΥT
LOW BATTERY RESTORE (device number)	309	YR
AC FAIL (device number)	301	AT
AC RESTORE (device number)	301	AR
BOX TAMPER (device number)	137	TA
BOX TAMPER RESTORE (device number)	137	TR
KEYPAD TAMPER	137	ТА
KEYPAD PANIC (audible)	120	PA
KEYPAD PANIC (silent)	121	HA
DURESS	121	HA
KEYPAD AUXILIARY 1	110	FA
KEYPAD AUXILIARY 2	100	MA
RF SENSOR LOST (zone number)	381	*T
RF SENSOR RESTORE (zone number)	381	*R
SENSOR LOW BATTERY (zone number)	384	XT
SENSOR BATTERY RESTORE (zone number)	384	XR
ZONE SPRINKLER SUPERVISORY	200	SS
ZONE SPRINKLER SUPERVISORY RESTORE	200	SR
ZONE TROUBLE (zone number)	380	^   * D
ZONE TROUBLE RESTORE (zone number)	380	*K **
ZONE TAMPER (zone number)	137	
ZONE TAMPER RESTORE (zone number)	137	
	570	*u
BIPASS RESIORE (ZONE NUMBER)	570	Û

THE NUMBER IN PARENTHESES FOLLOWING THE EVENT IS THE NUMBER THAT WILL BE REPORTED AS THE ZONE NUMBER. IF THERE ARE NO PARENTHESES, THE ZONE WILL BE "0". REFER TO APPENDIX 3 FOR THE DEVICE NUMBERS.

\* The character transmitted in this slot will be the first character from the event code of the zone that is bypassed or in trouble. (Locations 110 - 141)

### 12. APPENDIX 2

#### **REPORTING ZONE CODES IN SIA OR CONTACT ID**

The NX-8-CF has the ability to report SIA level 1 transmissions to either or both phone numbers. Each report in SIA consists of an Event Code and a Zone or User ID. The Zone ID will be the zone number that is in alarm. The event code will come from the chart below and be programmed in the zone type event code.

Programmed Event Code	SIA Code	Description
0	HA	Holdup Alarm
1	FA	Fire Alarm
2	PA	Panic alarm
3	BA	Burglary Alarm
4	BA	Burglary Alarm
5	BA	Burglary Alarm
6	UA	Untyped Alarm
7	BA	Burglary Alarm
8	BA	Burglary Alarm
9	UA	Untyped Alarm
10	HA	Holdup Alarm
11	MA	Medical Alarm
12	PA	Panic alarm
13	ТА	Tamper Alarm
14	RP	Periodic Test
15	GA	Gas Alarm
16	KA	Heat Alarm
17	WA	Water Alarm
18	QA	Emergency Alarm
19	SA	Sprinkler Alarm
20	ZA	Freeze Alarm

The NX-8-CF has the ability to report Ademco Contact ID transmissions. Each report in Contact ID consists of an Event Code and a Zone ID. The zone ID is the zone that created the alarm. The event code will come from the chart below and be programmed in the zone type event code.

Programmed Event Code	Contact ID Code	Description
0	122	Silent Panic
1	110	Fire Alarm
2	120	Panic alarm
3	130	Burglary Alarm
4	131	Perimeter Alarm
5	132	Interior Alarm
6	133	24 Hour Burglary
7	134	Entry Alarm
8	135	Day/Night Alarm
9	150	Non Burglary 24 Hour
10	121	Duress Alarm
11	100	Medical Alarm
12	123	Audible Panic Alarm
13	137	Tamper Alarm
14	602	Periodic Test
15	151	Gas Detected
16	158	High Temp
17	154	Water Leakage
18	140	General Alarm
19	140	General Alarm
20	159	Low Temp

### 13. APPENDIX 3

#### EXPANDER NUMBERS FOR REPORTING EXPANDER TROUBLE

The tables below list the device numbers that will be reported for trouble conditions.

Device	Device # reported	Ī
NX-8-CF Control Panel	0	
NX-540E "Operator"	40	
NX-591E Cellemetry Interface	76	
NX-870E Fire Supervision	9	

Refer to APPENDIX 1 on page 44 for possible report codes.

#### **KEYPADS**

					PARTIT	ION			
		1	2	3	4	5	6	7	8
	1	192	193	194	195	196	197	198	199
	2	200	201	202	203	204	205	206	207
#	3	208	209	210	211	212	213	214	215
AD	4	216	217	218	219	220	221	222	223
ΞYΡ	5	224	225	226	227	228	229	230	231
R	6	232	233	234	235	236	237	238	239
	7	240	241	242	243	244	245	246	247
	8	248	249	250	251	252	253	254	255

#### HARDWIRE EXPANDER (NX216 / NX-216E)

Starting zone number	Expander # reported
Zone 9 (All switches off)	22
Zone 9 (Switch 1 on)	23
Zone 17 (Switch 2 on)	16
Zone 25 (Switch 1 & 2 on)	17
Zone 33 (Switch 3 on)	18
Zone 41 (Switch 1 & 3 on)	19

#### **OUTPUT MODULE (NX-508E)**

Address & Dip Switch Setting	
24 (Switch 1 & 2 on)	29 (All switches off)
25 (Switch 3 on)	30 (Switch 1 on)
26 (Switch 1 & 3 on)	31 (Switch 2 on)
27 (Switch 2 & 3 on)	
28 (Switch 1,2,&3 on)	

#### WIRELESS RECEIVER (NX448-E)

Switch Setting	Expander # reported
All switches off	35
Switch 1 on	36
Switch 2 on	37
Switches 1 & 2 on	38
Switch 3 on	39
Switches 1 & 3 on	32
Switches 2 & 3 on	33
Switch 1, 2 & 3 on	34

#### **REMOTE POWER SUPPLY (NX-320E)**

Address & Dip Switch Setting
84 (All switches off)
<b>85</b> (Switch 1 on)
<b>86</b> (Switch 2 on)
87 (Switch 1 & 2 on)
<b>88</b> (Switch 3 on)
<b>89</b> (Switch 1 & 3 on)
<b>90</b> (Switch 2 & 3 on)
<b>91</b> (Switches 1, 2, & 3 on)

### 14. BOARD INSTALLATION DIAGRAM





Inside the can, several 2-holed insertion points have been constructed. This allows for either vertical or horizontal placement of the modules. Notice that each insertion point has two sizes of holes – a larger hole and a smaller hole.

**Diagram 1**: The black plastic PCB guides are grooved on one edge where the PC board will be seated. The end with the half-moon protrusion fits into the larger hole. The smaller hole is for the screw.

**Diagram 2**: Place the *first* black plastic PCB guide in the top insertion point, grooved edge downward. The half-moon protrusion will be in the large hole. It does not require force. Insert one of the provided screw into the smaller hole (from inside the can) to secure it in place. A screwdriver should reach through the notch that runs the length of the guide to tighten the screw. The *second* PBC guide should be positioned opposite the first (grooved edge up) and placed in the lower insertion point, using the same procedures described above. Once mounted, screw it in securely.

**Diagram 3**: The PC Board should slide freely in the grooves of both guides.





#### IMPORTANT!

- 1. If separate power supplies are necessary to accommodate additional devices, safety standards require that each power supply be prominently marked with adequate instructions for removing all power from the unit.
- 2. Dispose of used batteries according to the manufacturer's instructions and/or local government authorities.
- Installation personnel should thoroughly read and understand the installation instructions and the users
  manuals for the panel and all the accessories to be included with the system before attempting to install a
  security system.



#### WARNING!

Replace with Yuasa #NP18-12 or Power Sonic #PS-12180 or equivalent battery. Observe polarity when installing a new battery. Installing the battery backwards may cause damage to the panel. There is a risk of explosion if the battery is replaced with an incorrect type.

#### NOTE

Electrical codes will vary depending upon the country and city where the system is installed. It is the installer's responsibility to ensure that the electrical installation is safe and conforms to all applicable codes, laws, or regulations. Only qualified persons should connect this device to the mains supply.

### **15. BATTERY CALCULATION WORKSHEET**

<u>Note</u>: The Total Standby or Total Alarm Current cannot exceed 1.2 Amps. Current for the smoke loop must be deducted from the overall available 1.2 Amps.



#### **1** TOTAL STANDBY CURRENT

System Component	Qty		Standby Current		TOTAL STANDBY CURRENT
NX-8-CF	1	Х	60mA	=	60mA
NX-870E	1	Х	20mA	=	20mA
NX-148E-CF		Х	75mA	=	
NX-208E Aux+		Х	13mA	=	
NX-208E DCIN		Х	31mA	=	
NX-216E		Х	30mA	=	
NX-320E		Х	10mA	=	
NX-507E		Х	10mA	=	
NX-1700E		Х	40mA	=	
NX-2192E		Х	170mA	=	
OTHER (sensors, etc.)					

TOTAL

#### TOTAL ALARM CURRENT

System Component	Qty		Device Alarm Current		TOTAL ALARM CURRENT
NX-8-CF	1	Х	210mA	=	210mA
NX-870E	1	Х	110mA	=	110mA
NX-148E-CF		Х	110mA	=	
NX-208E Aux+		Х	53mA	=	
NX-208E DCIN		Х	31mA	=	
NX-216E		Х	60mA	=	
NX-320E		Х	10mA	=	
NX-507E		Х	310mA	=	
NX-1700E		Х	110mA	=	
NX-2192E		Х	170mA	=	/
OTHER (sensors, etc.)					¥
			TOTAL	=	

Should

not

#### **STANDBY AMP HOURS**

mA		.001 Amp/mA	)1 Amp/mA Hrs				Ah	
Total Standby Current (Step 1)	Х	Conversion Factor	X	Required Hours i Standby	in	=	Standby Amp Hours	
ALARM HOURS								
mA	001 Ai	mn/mA		Mins (	0167 Hr	/Min	Ah	

mA.001 Amp/mAMins.0167 Hr/MinAhTotal AlarmXConversionXRequired Minutes inXConversion=Alarm HoursCurrent (Step 2)FactorAlarmFactorFactor

#### MINIMUM BATTERY POWER REQUIRED

mA Standby Amp hours (Step 3)	- +	Alarm Amp Hours (Step 4)	=	Ah Minimum Battery Power Required	
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**Total Standby Battery** 

Power

# TOTAL STANDBY BATTERY POWER 1.15 Battery Derat



4

 $(\mathbf{5})$ 





### **17. TERMINAL DESCRIPTION**

TERM	IINAL	DESCRIPTION			
R	1	House Telephone Ring (Gray).			
R		Telephone Ring (Red).			
1	Г	Telephone Tip (Green).			
Т	1	House Telephone Tip (Brown).			
EAF	RTH	Earth Ground. Connect to a cold water pipe or a 6 to 10 foot driven rod.			
A	C	AC input. Connect to a 16.5V 50 VA Class II U.L. approved transformer.			
BELL + & BELL -		If used as a siren output (default), the speaker rating should be 15 watt at 8 or 16 ohm, or 30/40 watt at 4, 8, or 16 ohms. If voltage output is selected in location 37, this output becomes voltage output, 12VDC, 600mA maximum load. NOTE: A 3.3K $\Omega$ resistor may be required across the bell terminals when a 12 VDC siren is used. If no resistor is used, you may experience voltage leakage into the siren, which will cause these devices to output a small signal.			
KP D	ΑΤΑ	Connect to the data terminal on the keypads and the expanders. Maximum number of devices (keypads + expanders) is 32. See "Maximum Wire Run" chart below.			
KP (	СОМ	Connect to the Common terminal on the keypads and the expanders.			
KP POS		Connect to the POS terminal on the keypads and the expanders. This terminal and AUX PWR + are limited to 400mA total current when added together.			
SMC	OKE+	Smoke detector power 12VDC, 400mA maximum (For those jurisdictions which allow the Priority zone to be used with smoke detectors.)			
CC	MC	Connect negative wire of powered devices such as motion detectors and smoke detectors.			
AUXI	PWR+	Connect positive wire of all powered devices except smoke detectors and keypads. This terminal and KP POS are limited to 400mAtotal current when added together.			
ZON	NE 8	Connect to one side of zone 8 loop. Connect the other side to com terminal. Open or short causes alarm. Zone 8 may be used for a two wire smoke detector using a 680 $\Omega$ E.O.L. resistor. W3 must be set for two-wire smoke detector loop. For normal zone operation, W4 must be set.			
CC	MC	Common (-) terminal for zones 7 & 8. (See the wiring diagram for examples.)			
ZON	NE 7	Connect to one side of zone 7 loop. Connect the other side to COM terminal. Open or short causes alarm.			
ZON ZON	IE 6 - NE 1	Connect as described for zones 7 & 8. Only zone 8 can be a two-wire zone. (See the wiring diagram for examples.)			
REL	AY 2	Refer to Relay 1 shown below.			
¥	N.O.	Normally open dry contact rated 1 Amp at 30 Volts.			
1	COM	Common dry contact rated 1 Amp at 30 VDC.			
R	N.C.	Normally closed dry contact rated 1 Amp at 30 Volts.			
AUX 4 – AUX 1		Connect negative lead of low current device [relay, LED (install $1k\Omega$ resistor in series with LED), etc.]. Connect positive lead of device to AUX PWR +. Current is limited to 25mA when output is negative.			

### KEYPAD MAXIMUM WIRE RUN

These numbers are for one keypad at the end of the wire. When connecting more than one keypad to the end of the wire, a higher gauge wire will be required.

	WHEN CONNECTED TO NX-8-CF	WHEN CONNECTED TO NX-320E
Length in feet	Wire Gauge	Wire Gauge
250	24	22
500	20	18
1000	18	16
1500	16	14
2500	14	12

### **18. LOCAL TELEPHONE COMPANY INTERFACE INFORMATION**

#### TELEPHONE CONNECTION REQUIREMENTS

Except for telephone company provided ringers, all connections to the telephone network shall be made through standard plugs and standard telephone company provided jacks or equivalent in such a manner as to allow for immediate disconnection of the terminal equipment. Standard jacks shall be so arranged that if the plug connected thereto is withdrawn, no interference to the operation of the equipment at the customers' premises which remains connected to the telephone network, shall occur by reason of such withdrawal.

#### INCIDENCE OF HARM

Should terminal equipment or protective circuitry cause harm to the telephone network, the telephone company shall, where practical, notify the customer that temporary discontinuance of service may be required. However, where prior notice is not practical, the telephone company may temporarily discontinue service if such action is deemed reasonable in the circumstances. In the case of such temporary discontinuance, the telephone company shall promptly notify the customer who will be given the opportunity to correct the situation. The customer also has the right to bring a complaint to the FCC if he feels the disconnection is not warranted.

#### CHANGES IN TELEPHONE COMPANY EQUIPMENT OR FACILITIES

The telephone company may make changes in its communications facilities, equipment, operations, or procedures where such action is reasonably required and proper in its business. Should any such change render the customers terminal equipment incompatible with the telephone company facilities, the customer shall be given adequate notice to make modifications to maintain uninterrupted service.

#### GENERAL

The FCC prohibits customer provided terminal equipment be connected to party lines.

#### IMPORTANCE OF THE RINGER EQUIVALENCE NUMBER

The Ringer Equivalence Number (REN) of this device is 0.1B. This number is a representation of the electrical load that it applies to your telephone line.

#### MALFUNCTION OF THE EQUIPMENT

In the event that the device should fail to operate properly, the customer shall disconnect the equipment from the telephone line to determine if it is the customers equipment that is not functioning properly. If the problem is with the device, the customer shall discontinue use until it is repaired.

#### EQUIPMENT INFORMATION

#### MANUFACTURER OF CONNECTING EQUIPMENT: CADDX CONTROLS, INC. FCC REGISTRATION NUMBER: GCQUSA-31771-AL-T, RINGER EQUIVALENCE: 0.1 B

### **19. UNDERWRITERS LABORATORIES INFORMATION**

The NetworX NX-8-CF control panel holds the following listings from Underwriters Laboratories:

(UL864)	Control Units for Systems	Fire-Protective	Signaling	(UL1610)	Grade B & C Central Station Burglar Alarm Unit		
(UL1023)	Household Burglar-Alarm System Units			(UL1637)	Home Health Care Signaling		
(UL609)	Local Grade A Merca	ntile, Police Static	on Connect	With Basic Li	ne Security (requires #NX-003-C enclosure)		

Туре	Type Service	Type Signaling	Model
L	A, M, SS, WF	NC	NX-8-CF
RS	A, M, SS, WF	NC	NX-8-CF
CS (protected premise unit)	A, M, SS, WF	NC	NX-8-CF

#### Section I - All UL installations require the following:

- At least one NetworX NX-8-CF control panel
- At least one compatible keypad
- At least one bell fixture is required for all applications, except Grade C Central Station. For Grade A Local, the AD10-12 bell and Grade A bell housing shall be used.
- Initiating and indicating devices must be rated at 11.5 to 12.4 V DC residential, 12.0 V DC commercial.
- The Siren/Bell Test shall be enabled
- The Entry-Guard feature shall be disabled.
- Swinger Shutdown shall be disabled.
- Group Bypassing shall be disabled.
- Delay before dial seizure shall be set to "0".
- Total current draw from aux power connections at terminal positions POS, AUX PWR, and SMOKE PWR must not exceed 400 mA.
- The keyswitch option shall not be used.
- The telephone line monitor shall be enabled.
- The telephone line cut delay shall not exceed 200 seconds maximum.
- 24-hour communicator test transmission is required.
- For 24 hours of standby power using a 7.0 AH battery, limit auxiliary power load to 140 mA.
- For 24 hours of standby power using a 17.2 AH battery, limit auxiliary power load to 400 mA; Limit bell load to 600mA.
- For 60 hours of standby power using two (2) 17.0 AH batteries in parallel, limit auxiliary power load to 400mA; Limit bell load to 600mA.
- The silent keypad option shall not be enabled.
- UL has only verified compatibility with the following listed DACRs and formats: Sure-Gard SG-MLR2-DG: 2,9,10,12,13,14; Silent Knight 9000 2,12; FBI CP220FBI, 13; and Ademco 685: 2,11,12, and 13.
- Expander trouble must activate the siren (Loc 37, Segment 2, LED 2)
- Use type FPL, FPLR, or FPLR cables as required by Article 760 of the National Electrical Code.

#### Section II - Commercial Fire applications must follow these requirements in addition to Section I:

- At least two NX-148E-CF or NX-148E-CF-W LCD keypads. Connect one to DATA/COM/POS and the other to DATA/COM/AUX+.
- At least one NX-870E Fire Supervision module.
- Commercial UL applications require #NX-003-CF metal enclosure. Supplied screws to be used.
- AC Failure Report delay must be 6-12 hours for central station and 15-30 hours for remote station.
- The DACT shall be enabled.
- Compatible listed devices: (Special Applications)
  - Bell Output (Sirens): Wheelock models: NS-1215W, NS-121575W, NS4-1215W, NS4-121575W, AS-1215W, AS-121575W

Smoke Output (4 wire detectors): ESL 500N series; ESL 449CTE series; ESL 521 series; ESL 541 series The 4-wire smoke detector employed shall be rated to operate over the voltage range of 11.5 to 12.4V.

## Section III - Commercial Burglary applications must follow these requirements in addition to Section I:

- Commercial UL applications require #NX-003-C metal enclosure. Supplied screws to be used.
- When using partitioning in Commercial Burglary applications, a 24-hour alarm circuit must protect the main control.
- Force Arming and Auto Arming shall not be enabled.
- The Siren/Bell Test shall be enabled. The auxiliary outputs controlling the audible device require a minimum cutoff time of 15 minutes.
- Ringback shall be enabled.
- Cross-zoned detectors shall overlap 100 percent in the area of coverage and similar coverage areas must be used. For example, interior protection is cross-zoned with interior protection, and so on.
- The exit delay time shall not exceed 60 seconds.
- The DACT shall be enabled.

#### Section IV - Residential Fire applications must follow these requirements in addition to Section I:

- The indicating devices shall be a Wheelock 34T-12 or equivalent.
- The Dynamic Battery Test time cannot exceed four (4) hours.
- The Siren/Bell Test shall be enabled. The auxiliary outputs controlling the audible device require a minimum cutoff time of 4 minutes.

#### Section V – Home Health Care applications must follow these requirements in addition to Section I:

- A minimum of two (2) keypads are required for Home Health applications and each keypad must be set to a unique address.
- For UL 1637, expander trouble must activate keypad sounder (Loc 39, Seg 1, LED 8).

For additional details, please refer to the specific programming instructions in the NX-8-CF Installation Manual.

#### **NOTES FOR THIS SYSTEM**

### 20. SPECIFICATIONS

OPERATING POWER	16.5 VAC 50 VA Transformer
AUXILIARY POWER w/50 VA Transformer w/NX-320E Power Supply	12 VDC Special Applications 1 AMP 12 VDC Special Applications 2 AMPS + Control Panel Power
LOOP RESISTANCE Standard Loop 2-Wire Smokes	300 Ohms Maximum 30 Ohms Maximum
BUILT-IN SIREN DRIVER	2-tone (Temporal and Yelp)
LOOP RESPONSE	500mS
OPERATING TEMPERATURE	32 to 120 degrees F
NX-148E-CF LCD KEYPAD Current Draw w/o Sounder Dimensions	110 mA max. 75 mA 6.4" Wide 5.3" High 1.0" Deep
METAL ENCLOSURE DIMENSION	15.50" Wide 18.50" High 4.50" Deep
SHIPPING WEIGHT	20 lbs. approx.



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