

GE  
Security

## **NetworX™ Series**

NX-4-ZA-TK Control Panel

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Installation manual



imagination at work



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## GENERAL INFORMATION

The NX-4-ZA-TK (from now on called NX-4) NetworX from Caddx represents a new approach to the design of security systems. The NX-4 is probably the most flexible, durable, and user-friendly control panel ever seen in our industry. Its features include sophisticated software enabling as many as 8 users to interface with 4 zones, wireless expandable up to 8 zones, with access, audio verification, and input/output modules, all reported with SIA and Contact ID formats which are extremely fast and very comprehensive. Thanks to the NetworX design, a fully loaded system can be housed in one single metal enclosure, establishing for the first time, a logical solution and design response to modular systems. Two modules can be added to expand the capabilities of the NX-4.

## ORDERING INFORMATION

For detailed ordering information and part numbers, please refer to the EMEA Distribution price list of the Caddx product range.

## FEATURE DEFINITIONS

### **Abort**

If this option is enabled, the NX-4 will wait the programmed number of seconds (0-255) in location 40 prior to sending an alarm. During this delay time, the "Cancel" LED will flash. To abort the report, type in a code and press the [Cancel] key. The LED will go out. If the report is not aborted within the allotted time, the LED will go out when the report is sent. The dialler delay is programmed at **location 40, segment 8**. Each zone can be defined as a "dialler delay zone" by defining the relevant option in **segment 3** of the appropriate zone configuration group (see locations 110-169).

### **AC fail / low battery report/warning**

The NX-4 can be programmed to report an AC failure and/or low battery conditions to the central station. Low battery will be detected as the battery gets discharged down to 10.5Vdc and lower. It can also be programmed to sound the keypad immediately when the condition is detected. The AC failure report/warning can be delayed (see locations 37, 39 and 40).

### **AC power / low battery sounder alert**

If this option is enabled, the NX-4 will beep the keypad sounder upon arming or disarming, if the AC power is not present or if a low battery has been detected (see location 23, segment 2).

### **Arm / disarm codes**

The NX-4 can have 8 four-digit or six-digit codes to arm/disarm the control panel. All the codes must have the same number of digits. The factory default for user 1 is **[1]-[2]-[3]-[4]** when using a 4-digit code, or **[1]-[2]-[3]-[4]-[5]-[6]** for a 6-digit code. This code can then be used to enter the new arm/disarm codes (see location 41).

### **Automatic arming**

If programmed, the NX-4 will Auto Arm at a specified time. At this time, the keypad will start beeping before the panel arms and this for the amount of time set as warning time (warning timer). The arming process will be stopped during the warning time if a code is entered on the keypad or when movement has been detected. The NX-4 will attempt to arm again after the amount of time set as retry time (retry timer) until the next "opening" time (loc. 52), or until the system is armed. The panel will not try to re-arm if the retry feature has been disabled. If a zone is faulted before the warning timer starts and stays faulted when the panel tries to auto-arm, the zone will automatically be bypassed. The auto arming of a partition can be programmed so that it is silent. If closing reports are sent, the user code will be 97 (see locations 23 segment 2, location 40 segment 12 and 13 and location 52-55).

### **Automatic bypass / instant arming**

When this option is enabled, the control panel can automatically bypass interior follower zones if no exit is detected during the exit delay time. Entry delay zones can also be made instant (see location 23, segments 1 and 2).

### **Auto cancel**

If enabled, the Cancel and/or Abort features will be automatic (pressing the [Cancel] button is not required). The Cancel and Abort features, in locations 23 & 40 respectively, must be enabled to permit this Auto feature to work. For proper operation of these features, "Dialler Delay" must be enabled in the zone configuration group (see locations 110-169).

### **Auto-test**

This feature will cause the panel to call the central station, in order to report a communicator test at a specified interval (see location 51). Also, the auto-test report may be enabled ONLY when the control panel is armed see location 37 segment 4).

### **Auxiliary outputs**

The NX-4 has two programmable outputs that can be used to activate LED's, sirens, flashes, etc. (see the terminal description and locations 47-50).

### **Auxiliary power overcurrent**

The NX-4 will light up the "Service" LED on the keypad whenever too much current is being drawn from any device powered by the system. This condition can be reported to the central station (see location 37 segment 3).

### **A+B alarm reporting (Sweden)**

When this feature is enabled, a first trigger from a zone will send a BG report (unverified alarm or B-alarm) for that zone. The B-alarm message will be written in the log. In addition, a fix 30 minutes timer will start. If a zone is triggered for a 2nd time within the 30 minutes time frame, this zone will send a BA report (burglary alarm or verified alarm) to the monitoring station. If there is no 2nd zone that was triggered within 30 minutes, the timer will be cleared. A+B alarm reporting only works with intrusion zone types using the SIA formats. When this feature is enabled, the standard cross-zoning feature will be in-active (see location 37 segment 3).

### **Box tamper**

The NX-4 has an input for a normally closed tamper switch (see wiring diagram). The box tamper can be programmed to report, and/or sound the siren and/or the keypad. These terminals can be enabled or disabled by programming (see locations 37 segment 2 and 3, and location 39).

### **Built In siren driver**

The NX-4 has a built-in 112 dB siren driver. If desired, this built-in driver can easily be converted to a 1 amp voltage output by programming (see location 37 segment 2).

### **Bypass toggle**

This feature will enable the end user to toggle (turn on or off) the bypass of an interior zone while the system is armed. This is done by pressing the [Bypass] key (see location 23 segment 2).

### **Call back**

When this feature is enabled, the control panel will use the call back phone number to call the download computer before it begins a download (see locations 21 and 22).

### **Cancel**

If this feature is enabled, the NX-4 will send a "Cancel" report when the system is disarmed and the [Cancel] button is pressed within 5 minutes of an alarm. Once the [Cancel] key has been pressed, the "Cancel" LED will light up until the central station acknowledges the "Cancel" report (see location 23 segment 3).

### **Chime**

This feature can be turned on and off using the "chime" key. When the system is in the disarmed state, a trip on selected zones will generate either a DING-DONG or a single tone through the keypad sounder (depending on the keypad programming). This lowest level of security can be enabled by zone; this is done by programming the appropriate zone configuration for it, or by customizing its zone configuration (see locations 111-169).

### **Code required options**

The NX-4 can be programmed to require a code in order to bypass zones and/or to initiate a download using the [\*]-[9]-[8] or [\*]-[9]-[9] function (see locations 23 segment 2 and 41).

### **Communication formats**

The NX-4 can report in multiple formats. You are recommended to use Contact ID or SIA formats if possible. If you wish to report to a private phone (using the voice module) or to a central station in a 4+2 format, you must program each code that is to be reported (see locations 56-83 and 111-169).

### **Configuration groups**

The NX-4 has 30 configuration groups that determine how each zone will function and report. The default configuration groups are listed on pages 45-47. All configuration groups are fully programmable via downloading and via the keypad (see locations 111-169).

### **Cross zoning**

This feature requires two or more trips within a specified time on one or more zones that are programmed as "cross zones" before it will report an alarm. During the time between trips, the NX-4 can be programmed to sound the keypad and/or the siren. The NX-4 can also be programmed to report an alarm after two or more trips on the same zone. **The first trip on a cross-zone is also logged** (see locations 37 segment 1, 39, 40 and 110-169).

### **Daylight savings time**

The NX-4 has the possibility to switch automatically from summer to wintertime and vice versa. This option will move the clock backward on the last Sunday of October (3 a.m. becomes 2 a.m.) and will move the clock forward on the last Sunday of March (2 a.m. becomes 3 a.m.) (see location 37, segment 5, option 8).

### **Dual / split / multiple reports**

The NX-4 can send communication reports to three different phone numbers for dual, split or multiple reports selectable by event (see locations 4, 10, and 16).

### **Duress code**

If a duress code is programmed, the NX-4 will send a duress signal whenever the panel is armed or disarmed with this code. If open/close reports are sent, the user code will be 254 (see location 44).

### **Dynamic battery test**

The NX-4 can be programmed to perform a dynamic battery test for a selected duration when the panel is armed or disarmed for the first time each day. The NX-4 can also be programmed to perform a 'missing battery' test every 12 seconds (see locations 37 segments 2 and 3 and location 40).

### **End of line resistor defeat**

The NX-4 can be programmed to make zones 1-4 for normally closed operation only, eliminating the need of the end of line resistors on these zones. When a zone is programmed for normally closed operation, a short on that zone will not change the loop condition, and an open on that zone will produce a faulted condition. This feature will be ignored by any priority zone (see locations 110-169).

### **Entry-guard**

This unique low level arming mode has been developed to reduce the most common source of false alarms. When armed in the "Stay Instant" mode, opening any zone designated as an "Entry Guard Zone" will initiate the keypad sounder and start the entry delay before generating an alarm. All the other zones will function as normal. This arming mode will encourage system owners to use their systems more frequently when the premises are occupied (see locations 111-169).

### **Exit error**

If this option is enabled, the NX-4 will send an "Exit Error Report" when an entry/exit zone is faulted, at the instant the exit delay expires. This report will be sent together with the user number that was used to arm the system, provided that 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, as soon as the exit delay expires (see location 23 segment 3).

### **Expander trouble**

The NX-4 will report expander trouble to the central station if this option is enabled. This condition will light up the "Service" LED on the keypad, even if it is not reported.

NOTE: The keypads are considered to be expanders. The number of expansion devices that are reported can be found in appendix 3 (see location 37 segment 3).

### **Early to Open/ Late to Close**

If an opening occurs before the opening and closing times, the NX-4 will send an "Early Open" report. If it fails to close on or before the designated closing time, the NX-4 will send a "Late to Close" report. (see location 23 segment 4)

### **Fail to communicate**

The NX-4 will light up the "Service" LED if a report fails to reach the central station. If this option is enabled, a fail to communicate code will be reported when the next report is successfully communicated. **A fail to communicate is always logged as "data lost"** (see location 37 segment 4).

### **Final set door**

If this feature is enabled, it will only be applicable for secondary entry/exit zones (f.e. configuration group 9 or 19). If the final set door option is enabled, the exit time will immediately expire as soon as the secondary entry/exit zone (type 9 or 19) becomes ready again. This feature can only be used in combination with magnetic contracts (see location 23, segment 2, option 8).

### **Fire alarm verification**

When this feature is enabled, the NX-4 will verify a fire alarm by requiring more than one trip on a smoke detector (the same or another one) within a specified time (120-255 seconds) before it generates an alarm (see location 40 segment 9).

### **Force arming**

If this option is enabled, the NX-4 can be "Force Armed" when zones have been violated. In this condition, the "Ready" LED will flash if a "Force Armable" zone is not secure. At the end of the exit delay, these zones will become bypassed, unless the option "No auto-bypass for force armable zones" is set (location 23, segment 5 option 1). If these zones become secured at any time during the arming cycle, they will be unbypassed and will become 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 not to report bypass even if "Bypass Report" is enabled (see locations 37 segment 5, and 111-169 segment 2).

### **Group bypass**

A designated group of zones can be programmed to bypass by pressing [Bypass]-[0]-[0]-[Bypass] prior to arming (see locations 111-169 segment 2).

### **Immediate restore by zone**

The NX-4 can be programmed to send alarm and restore reports as soon as they occur, or to wait until the siren time has expired or the system has been disarmed. (see location 37 segment 2).

### **Internal event log**

Up to 512 events can be stored in memory together with the date and time of the event. These events can be viewed later on via the LCD keypad, or by downloading. All reportable events are reported to the log.

### **Keypad activated panics**

The NX-4 has three keypad activated panics that will send reports to the central station, 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 (see location 23 segment 1).

### **Keypad shutdown mode**

This feature will extinguish all the LED's on the keypad, except the "Power" LED, after 60 seconds have elapsed without a keypress. Pressing a valid user code (not an installer code) will light up all the LED's (see location 41, segment 1, option 5). This option requires bilingual LCD keypads. This option is an alternative for LED-extinguish.

### **Keypad sounder control**

The NX-4 can be programmed to sound the keypad sounder for certain events (see location 39).

### **Keypad tamper**

If this option is enabled, the NX-4 will disable the keypad for 60 seconds, and will communicate a tamper signal to the central station whenever 30 keypresses are entered without producing a valid code (see location 23 segment 1).

### **Keyswitch arm/disarm**

Any zone on the NX-4 can be programmed as a momentary or maintained keyswitch zone. If a zone has been programmed as a momentary keyswitch, momentary shorts on this zone will arm/disarm the control. A zone can be also being programmed as a maintained keyswitch. The control panel will be armed as long as such a zone is shorted. A keyswitch zone can arm in AWAY or STAY mode (see location 23, segment 4, option 8). If opening/closing reports are sent, the user code will be 99 (see "default zone configurations")

### **LED extinguish**

This feature will extinguish all the LED's on the keypad, except the "Power" LED, after 60 seconds have elapsed without a keypress. Pressing any numeric key will light up all the LED's (see location 23 segment 2).

### **Local programming lockout**

This feature will disable programming of all locations, or for specified locations, from the keypad (see location 21).

### **Log full report**

A report can be sent to the central station when the event log is full (see location 37 segment 4).

### **Log protection**

This feature will prevent a single, non-zone reportable event to fill up the event memory. The event will only be logged for a maximum of 3 times between closings or code entry. (see location 37 segment 6).

### **Lost clock service light**

The NX-4 can be programmed to light up the “Service” LED on a LED keypad or give a “Service” message on a LCD keypad when the internal clock time is invalid due to power loss. On LCD keypads, if programmed to show the system time, a “Set Clock, \*97” message will always be displayed (see location 37 segment 5).

### **Manual test**

The NX-4 can be programmed to perform a bell and/or communicator test; to do this, enter [\*]-[4]-[4] while the system is in the disarmed state. Each time that [\*]-[4]-[4] is entered, a dynamic battery test will also be performed (see location 37 segment 2).

### **Night Mode**

Applies to NX-1208E / NX-1248E keypads. In this mode, the control panel will bypass all zones that have the Entry Guard feature enabled. (See location 23 and 111-169)

### **On board zone disable**

The 4 zones on the NX-4 panel can be disabled, in order to obtain a completely wireless alarm system. A mix of hardwired and wireless zones is also possible (see location 37 segment 5).

### **Program code**

The factory default for the “Go To Program” code is [9]-[7]-[1]-[3] when using a 4-digit code; or, if the 6-digit option is used, the default is [9]-[7]-[1]-[3]-[0]-[0]. The program code can also be used as an arm/disarm code. If it is used as an arm/disarm code, and if open/close reports are sent, the user code will be 255 (see location 43).

### **Quick arm feature**

The NX-4 has a single-button “Quick Arm” feature which can be used to arm the system by pressing the [Exit] key or the [Stay] key on the keypad. If closing reports are sent, the user code will be 98 (see location 23 segment 1).

### **Recent closing**

If this option is enabled, the NX-4 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 was used to arm the system will also be sent (see location 23 segment 3).

### **Re-exit**

The NX-4 can restart the exit delay for a quick exit without the need to disarm the system; this is done by pressing the [Exit] key while the system is still armed (= after exit delay has expired). The re-exit is also logged (see location 23 segment 1).

### **Shutdown**

This mode will cause the keypads to extinguish all LED’s, except the “Power” LED, and to refuse keypresses (see location 21).

### **Siren blast for arming**

The NX-4 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 (see location 37 segment 1).

### **Siren supervision**

The NX-4 has a “Siren Supervision” circuit that will constantly monitor the siren on the NX-4; it can also be programmed to report if the wires are cut (see location 37 segment 3).

### **Silent exit option**

The exit delay can be silenced by pressing [\*]-[Exit] before arming the control panel, or when using the re-exit feature. The exit delay can also be silenced permanently in all partitions (see location 37 segment 5).

### **Start/end programming and end downloading**

A report can be sent when local programming is started and ended. A report can also be sent when a download session ends (see location 37 segment 4).

### **Swinger shutdown**

This feature allows one or more zones to be bypassed automatically after a specified number of alarms (from 0 to 255). If immediate restore is enabled in location 37, the alarms (and restores, if this option is 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 (see location 37 segment 2 and location 38).

### **Telephone line monitor**

The NX-4 has a telephone line monitor which monitors the voltage and current of the telephone line, in order to detect a faulty 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. **A telephone line cut is always logged** (see locations 37 segment 3, location 39 and location 40 segment 5).

### **Two call answering machine defeat**

If this option is enabled, two telephone calls must be made to the premises in order to defeat an answering machine. On the first call, let the phone ring one or two times. The control panel will detect these rings and start a 45-second timer; during this time, the control panel will answer the next call on the first ring. This is not recommended for commercial applications (see location 21).

### **User authorization to enter program mode**

Entering program mode via the installer code is only possible within 60 seconds following a user code entry (see location 41,segment1, option 6).

### **Walktest mode**

Walktest mode is used to test your system without activating the siren and/or communicator. The walktest mode is activated by pressing [\*]-[chime] followed by the master code.

Walktest mode is not possible if any partition is armed or if the communicator is active.

### **Wireless sensor absent/low battery**

The NX-4 will send a report to the central station when a wireless sensor has detected a low battery, or has not reported to the receiver. The "Service" LED will light up when either of these conditions exists (see location 37 segment 4).

### **Zone activity monitor**

This feature will send a report to the central station when a particular zone does not change conditions within the specified number of hours/days programmed (see location 37, location 40 and locations 110-169).

### **Zone bypassed sounder alert**

With this feature enabled, if a zone is bypassed, the NX-4 will beep the keypad sounder when the zone is armed (see location 23 segment 2).

**Zone Doubling**

This feature allows you to use the four zones on the panel as eight normally closed zones. When this feature is used, European double E.O.L. configuration cannot be used. THIS FEATURE DOES NOT INCREASE THE TOTAL NUMBER OF AVAILABLE ZONES BEYOND 8. If one of the eight zones must be a fire zone, it must be one of Zones 1 to 4. The corresponding upper zone will become unavailable. For example: if Zone 4 is a fire zone, then Zone 8 will not be available. (See location 37, segment 5).

# PROGRAMMING THE NX-4 KEYPADS

## Programming the LED keypads

This section describes how to program the address and partition for each keypad, and it also explains the options that are available. The address of the keypad is important because the panel uses it to supervise the keypads.

The factory default for the master code is **[1]-[2]-[3]-[4]** when using a 4-digit code, or **[1]-[2]-[3]-[4]-[5]-[6]** for a 6-digit code. The factory default for the "Go To Program" code is **[9]-[7]-[1]-[3]** for a 4-digit code, or **[9]-[7]-[1]-[3]-[0]-[0]** for a 6-digit code.

### [\*]-[9]-[3] SET KEYPAD OPTIONS

1. Enter **[\*]-[9]-[3]** [program code]- the "Service" LED will flash.
2. LED's 1-8 can now be toggled on/off to enable/disable the following functions:
3. After enabling/disabling the desired functions press [\*]

LED	Keypad feature enabled
1	<b>Keypad tamper On</b>
2	<b>Enable silent keypad option (no entry/exit delay sounder, no chime)</b>
3	<b>Enable Ding Dong sound for chime</b> - If this is off, the chime will be a single tone (see location 40).
4	<b>Enable keypress silence option</b> (Silences the pulsing keypad sounder for 5 seconds when a key is pressed).
5	<b>Enable armed status suppression</b> (Will not allow the keypad to display faulted or bypassed zones when the system is armed).
6	<b>Enable panic, fire, medical beep tone</b> (Will sound a short beep to verify that the keypress has been accepted).
7	<b>Suppresses the "Service" LED</b> (Will not allow the "Service" LED to light up for any reason. If there is a system malfunction (trouble), pressing [*]-[2] will still display the service menu.)
8	<b>Enable multi-partition viewing</b> (Enables temporary viewing of all partitions, by pressing [*]-[1]-[partition number]).

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**[\*]-[9]-[4] SET KEYPAD NUMBER AND PARTITION**

1. Enter [\*]-[9]-[4]-[program code]- the "Service" LED and the "Instant" LED will flash.
2. Enter the keypad number (1-8).
3. Press [\*]- the "Instant" LED will illuminate steadily, and the "Service" LED will carry on flashing.
4. Enter the partition number for the keypad. The keypad will automatically exit this mode now).

**[\*]-[9]-[5] SET ELAPSED INCREMENTS (HOURS/DAYS) SINCE LAST AUTOTEST**

1. Enter [\*]-[9]-[5]-[program code]- the "Service" LED will flash.
2. Enter [100's digit] -[10's digit]-[1's digit]-[#].

**[\*]-[9]-[6] SET SYSTEM DATE**

1. Enter [\*]-[9]-[6]- the "Service" LED will flash.
2. Enter [master code]-[day of week (1=Sun)]-[month 10's digit]-[month 1's digit]-[day 10's digit].
3. [day 1's digit]-[year 10's digit]-[year 1's digit].

**[\*]-[9]-[7] SET SYSTEM CLOCK**

1. Enter [\*]-[9]-[7]- the "Service" LED will flash.
2. Enter [master code]-[hour 10's digit]-[hour 1's digit]-[minutes 10's digit]-[minutes 1's digit].

**Note: the clock is a 24-hour clock.**

**[\*]-[9]-[8] INITIATE CALLBACK**

Pressing [\*]-[9]-[8] while the system is disarmed will cause the control panel to perform a callback for a download.

**NOTE: A VALID USER CODE MAY BE REQUIRED AFTER [\*]-[9]-[8], IF ENABLED IN LOCATION 41.**

**[\*]-[9]-[9] ANSWER DOWNLOAD**

Pressing [\*]-[9]-[9] while the system is disarmed will cause the control panel to seize the phone line for a download.

**NOTE: A VALID USER CODE MAY BE REQUIRED AFTER [\*]-[9]-[9], IF ENABLED IN LOCATION 41.**

[\*]-[5]

**CHANGING USER CODES**

1. Enter [\*]-[5]-[master code]- the "Ready" LED will flash.
2. Enter the 2 digit user number (always 2 digits, such as "03" for user 3)- the "Ready" LED will illuminate steadily.
3. Enter the new user code designated for the person in question - the "Ready" LED will flash, indicating that the code has been accepted. If the code is rejected, the sounder will beep 3 times.
4. If another user code needs to be programmed, return to step 2.
5. Press [#] while the "Ready" LED is flashing in order to exit the user code programming mode.
6. Pressing four times (for 4-digit code) can erase a user code or six times (for 6-digit code) the "Cancel" key.

[\*]-[6]

**ASSIGNING AUTHORITY LEVEL**

1. Enter [\*]-[6]-[master code]- the "Ready" LED will flash.
2. Enter [2 digit user number] (always 2 digits, such as 03 for user 3)- the "Ready" LED will illuminate steadily and the "Instant" LED will flash. Refer to the chart below for the description of each LED. Turn on the LED for the features that you want.

LED	ATTRIBUTES IF LED 8 IS OFF	LED	ATTRIBUTES IF LED 8 IS ON
1	Reserved	1	Activate output 1
2	Arm only	2	Activate output 2
3	Arm only after closing window	3	Activate output 3
4	Master arm/disarm (can program other codes)	4	Activate output 4
5	Arm/disarm code	5	Arm/disarm code
6	Allowed to bypass zones (see location 23)	6	Allowed to bypass zones (see location 23)
7	Code will send open / close reports	7	Code will send open / close reports
8	If this LED is on, LED's 1-7 will use the chart too the right	8	If this LED is off, LED's 1-7 will use the chart on the left

1. Enter [\*]: The "Instant" LED will illuminate steadily.  
 This moves you to the 'partition enable'. (This tells the system which partition this user can arm/disarm.) LED's 1-8 will light up for each partition that the user is authorised to arm/disarm. To change any of these numbers, press 1-8 to permit or deny access to the user. (Example: If LED 2 is lit, then the user has been assigned access to that partition. By pressing the [2] key, the LED will go out, indicating the user has been denied access to that partition.)
2. Enter [\*]:  
 This brings you back to step 2 above. At this point, you may enter another user number to which you can assign attributes. You may continue this procedure until you have assigned authority levels to all user numbers; otherwise, you may press the [#] key to exit the assigning authority level program.

**NOTE:**

ANY MASTER ARM/DISARM CODE CAN ADD OR CHANGE A USER CODE IF THE MASTER CODE HAS ACCESS TO THE SAME PARTITIONS AS THE CODE BEING ADDED/CHANGED. CONSEQUENTLY, WHEN PROGRAMMING THE USER CODES FOR A PARTITIONED SYSTEM, LEAVE AT LEAST ONE CODE WITH ACCESS TO ALL PARTITIONS. UNLESS YOU DO THIS, YOU WILL NOT BE ABLE TO ADD NEW USERS. (THE CODE CAN BE THE "GO TO PROGRAM CODE", IF ENABLED IN LOCATION 43). IF YOU WANT TO LET THE END USER ADD NEW CODES, YOU MUST REMOVE THE PARTITION AUTHORITY FROM ALL BLANK CODES.

**[\*]-[CHIME]      ACTIVATING WALKTEST:**

1. Enter [\*]-[CHIME].
2. Enter [Master code].
3. Activate all sensors to test. Each activation of a sensor is confirmed with a "ding dong" sound with a corresponding flashing zone-indicator.
4. Enter [Master code]. Herewith the walktest-mode is left.

**Remark: Walktest mode is not possible if any partition is armed or if the communicator is active.**

Additional keypad functions are described in the appropriate user manual
--

## Programming the NX-148 LCD keypads

This section describes how to program the address and partition for each keypad, and it also explains the options that are available. The address of the keypad is important because the panel uses it to supervise the keypads.

The factory default for the Master code is **[1]-[2]-[3]-[4]** when using a 4-digit code, or **[1]-[2]-[3]-[4]-[5]-[6]** for a 6-digit code. The factory default for the "Go To Program" code is **[9]-[7]-[1]-[3]** when using a 4-digit code, or **[9]-[7]-[1]-[3]-[0]-[0]** for a 6-digit code.

### **[\*]-[9]-[1] ADJUSTING THE VIEW / BRIGHTNESS OF THE LCD**

- |   |   |
|---|---|
| 1. Enter [*]-[9]-[1]                              | The LCD screen will prompt for a "master" code.   |
| 2. Enter [master code]                            | The LCD will now prompt you to increase or reduce the viewing angle. By using the scroll keys to the right of the LCD, you can increase or reduce the text-viewing angle. |
| 3. To advance to the brightness option, press [*] | The LCD will prompt you to brighten or dim the LCD lighting. Use the scroll keys again to set the desired brightness. When completed, exit by pressing [*].               |

### **[\*]-[9]-[2] PROGRAMMING CUSTOM MESSAGES IN THE KEYPAD**

- |   |  |
|---|--|
| 1. Enter [*]-[9]-[2]  | The LCD screen will prompt for the "Go To Program" code.   |
| 2. Enter [program code]   | The LCD will now prompt you to enter the message number followed by [#]. Zones 1 through 16 custom messages are message numbers 1-16 respectively.<br>Message 193 - Custom message top line.<br>Message 194 - Custom message bottom line.<br>Message 195 - Shutdown message top line.<br>Message 196 - Shutdown message bottom line. |
| 3. Enter message number to edit, followed by [#]  | The LCD will display the zone number on the top line. The zone description will be displayed on the bottom line. Use the instructions on page 29-30 to edit character data.  |
| 4. When finished, exit by pressing [EXIT] while the LCD screen is prompting for a zone message #. Any changes will automatically be copied to all other LCD keypads in the system. NOTE: If you want a LCD keypad to have a different custom message, you must enable custom message lock under the [*]-[9]-[3] function. |  |

[\*]-[9]-[3]

**SET KEYPAD OPTIONS**

1. Enter [\*]-[9]-[3]
2. Enter [program code]

The LCD screen will prompt for a code.

The LCD will now prompt you through the options listed in the following chart. The current state of the option will be shown in the lower right corner of the display. Press [\*] to exit the current state without any changes. Otherwise, follow the directions on the bottom line to select the desired option. When finished, press [\*] to move to the next option.

OPT	KEYPAD FEATURES
1	<b>CASE TAMPER ON?</b> Tamper switch of keypad housing active
2	<b>SILENT KEYPAD?</b> Enable silent keypad option. If this is on, silent keypad is enabled for entry/exit delay and chime.
3	<b>DING-DONG CHIME?</b> Enable ding-dong sound for chime. If this is off, the chime will be a single tone.
4	<b>5 SEC. SILENCE?</b> Enable keypress silence option. Silences the pulsing keypad sounder for 5 seconds when a key is pressed.
5	<b>ARMED ZONE INFO?</b> Enable armed status suppression. If this is on, the keypad will not display faulted or bypassed zones when the system is armed.
6	<b>BEEP ON PANICS?</b> Enable panic, fire, medical beep tone. Will sound a short beep to verify that the keypress has been accepted.
7	<b>DISABLE SERVICE?</b> Suppresses the "Service" Message. This will not allow the "Service" message to be displayed for any reason. If there is a system malfunction (trouble), pressing [*]-[2] will still display the "Service" menu.
8	<b>MASTER KEYPAD?</b> Enable multi-partition mode.
9	<b>CUSTOM MESSAGE?</b> Enable custom message display.
10	<b>CLOCK?</b> Enable clock display.
11	<b>CUSTOM MSG. LOCK?</b> Enable custom message lock. Prevents the custom message from being overwritten during keypad copy.
12	<b>SELECT AN OPTION</b> 1234 - - - -

- Remark :** In the menu "Select an option" 8 additional options can be selected. The options 5 until 8 are not used for the moment and may therefore not be selected. The options 1 and 4 are described below:
- Option 1 : On the LCD screen "press \* for help". By this the status of the system and the message "press \* for help" are alternately displayed on the LCD screen. This is only to inform the user of the user's menu.
- Option 2 : Light continuously on. By this the lights of the LCD display and the keys will continue to light up, independently of the programming of the control panel. (Adr 23, Segm. 2, option 1 = turn off the lights after one minute of inactivity).
- Option 3 : ON if PIN should be hidden when programming user codes.
- Option 4 : ON suppresses beeps when an RF transmission is lost.
- Option 5 : Reserved **(Do not program)**.
- Option 6 : Disable ARM and BYPASS led for Norway/Sweden (NX-148E v3.47)
- Option 7-8 : Reserved **(Do not program)**.

#### [\*]-[9]-[4]

#### SET KEYPAD NUMBER AND PARTITION

1. Enter [\*]-[9]-[4] The LCD screen will prompt for a code.
2. Enter [program code] The LCD will now prompt you for the keypad number followed by [\*]. The current keypad number will be displayed in the lower right hand corner.
3. Enter the keypad number followed by [\*] The LCD will now prompt you for the partition number. The current partition will be displayed in the lower right hand corner.
4. Enter the partition number for the keypad The keypad will automatically exit this mode now.

## Keypad functions for the NX-148 LCD keypad

The LCD keypads have a bilingual user's interface. As a result, you can simply select a user's function on the menu. You can consult the menu by entering the [\*] key.

The user of the system can easily switch from one user's interface to another and the other way around.

To select a user's function, following steps have to be performed.

Step 1 Enter the [\*] key until the function you want, appears on the LCD display / screen.

Ex. 

<b>Select an option</b> <b>90 = Log Review</b>
---

Step 2 To select the option, you must press the appropriate option number next to the option (ex. Consulting Log Review = option 90)

To exit the user's menu, press the [#] key.

If you already know the option (ex. Log Review = 90) you can immediately select the wanted option by pressing the [\*]-[9]-[0] keys. By doing this you don't have to browse through the user's menu.

In the following table you will find all functions that can be executed by the user.

USER'S MENU		
Option	Description English (1)	Description English (2)
▲ ▼	Zone Review	Zone Review
0	Set Tone	Set Tone
1	Master Mode	Master Mode
2	Service Check	Service Check
3	Alarm Memory	Alarm Memory
41	Telephone # 1	Telephone # 1
42	Telephone # 2	Telephone # 2
43	Telephone # 3	Telephone # 3
44	Test	Test
45	Display test	Display test
46	Light Control	Light Control
49	English (2)	English (1)
5	User PIN	User PIN
6	User Authority	User Authority
7	Detector Reset	Detector Reset
90	Log Review	Log Review
91	View Settings	View Settings
97	Set Date/Time	Set Date/Time
CHIME	Walktest	Walktest
EXIT	Silent Exit	Silent Exit



[\*]-[▲]

### VIEW ZONE STATUS

1. Enter [\*]-[▲] The LCD screen will display the zone status.
2. Use the 'up' and 'down' scroll keys to browse through the descriptions. The LCD screen will display the list of ALL zones, in sequential order by zone number.
3. Press [#] to exit this function.

[\*]-[3]

### VIEW ALARM MEMORY

1. Enter [\*]-[3] The LCD screen will display the zone description for the zones.
2. Use the 'up' and 'down' scroll keys to browse through the alarm memory. The LCD screen will display the list, in sequential order by zone number.
3. Press [#] to exit this function.

[\*]-[4]-[5]

### DISPLAY TEST

The keyboard also provides a test function by the means of which the LCD display and all LED's are tested.

- Step 1 Press [\*] [4] [5]. The display and the LED's will blink.  
Step 2 Press the [\*] key to leave the display test.

[\*]-[4]-[9]

### MODIFYING LANGUAGE

The possibility exists to modify the language on the LCD display from one language to another and the other way around.

- Step 1 Press [\*] [4] [9]. The LCD display switches to the other language.  
Step 2 To switch back to the other language, only step 1 has to be repeated.

[\*]-[5]

### CHANGING USER CODES:

Note: For partitioned systems, someone changing the code of another person must have access to all partitions, or to more partitions than the user being changed.

1. Enter [\*]-[5] The LCD screen will prompt for a code.
2. Enter [master code] The LCD screen will prompt for a user number.
3. Enter the 2 digit user number (always 2 digits, i.e. "03" for user 3) The LCD screen will prompt for a new code.
4. Enter the new user code designated for the person in question. If the code is rejected, the sounder will beep three (3) times.
5. If another user code needs to be programmed, return to step 3.
6. To exit code programming, press [#] while the LCD screen is prompting for a new user number.
7. **REMARK: Pressing four times (for 4-digit code) can erase a user code or six times (for 6-digit code) the "Cancel" key.**

[\*]-[6]

**ASSIGNING AUTHORITY LEVEL**

**Note:** You must be authorized to access the partition that you wish to add to, or remove from, another person's authority.

- |  |   |
|--|---|
| 1. Enter [*]-[6]   | The LCD screen will prompt for a code.  |
| 2. Enter [master code]   | The LCD screen will prompt for a user number.   |
| 3. Enter the 2 digit user number (always 2 digits, i.e. "03" for user 3) | The LCD screen will prompt for a new code. The LCD will now prompt you for the first in the following list of attributes. |

PROMPTS	If prompt 1 ("Outputs used?") is answered NO, the LCD will display the four messages below	If prompt 1 ("Outputs used?") is answered YES, the LCD will display the four messages below
Outputs used?		
Open / close report?		
Bypass enable?		
Arm / disarm?		
	Master code?	Output 4 enable?
	Sched. arm only?	Output 3 enable?
	Arm only?	Output 2 enable?
	Reserved	Output 1 enable?

- |                              |  |
|------------------------------|--|
| 4. Enter a partition number. | The LCD screen will prompt you for the next user code. |
|------------------------------|--|

**Note:** The default allows access to all partitions. The first keypress will remove access to the partition. To re-establish access, press the partition number again. When completed, press [\*].

5. If another user code needs to be programmed, return to step 3.
6. To exit this feature, press [#].

**NOTE:**

**WHEN PROGRAMMING THE USER CODES FOR A PARTITIONED SYSTEM, LEAVE AT LEAST ONE CODE WITH ACCESS TO ALL PARTITIONS. UNLESS YOU DO THIS, YOU WILL NOT BE ABLE TO ADD NEW USERS. (THE CODE CAN BE THE "GO TO PROGRAM CODE", IF ENABLED IN LOCATION 43 OF THE NX-4 CONTROL PANEL). IF YOU WANT TO LET THE END USER ADD NEW CODES, YOU MUST REMOVE THE PARTITION AUTHORITY FROM ALL BLANK CODES.**

---

[\*]-[CHIME]

**ACTIVATING WALKTEST**

- |                                 |  |
|---------------------------------|--|
| 1. Enter [*]-[CHIME]            | The LCD screen will prompt you for a "master code".  |
| 2. Enter [mastercode]           | The LCD screen will display the "walktest mode"  |
| 3. Activate all sensors to test | Each activation of a sensor is confirmed with a "ding dong" sound. The zone texts of the sensors who have reacted, are displayed one by one on the screen. |
| 4. Enter [mastercode]           | The walktest mode is left.   |

- Remark:**
1. All activations and restore conditions occurred during the walk test, can be verified by consulting the memory file (see function [\*]-[9]-[0])
  2. A walk test mode is not possible if any partition is armed or if the communicator is active.

## PROGRAMMING THE NX-4 CONTROL PANEL

### Programming the NX-4 control panel via the LED keypad

#### ENTERING THE PROGRAM MODE

To enter the program mode, press [\*]-[8]. When you do this, the five function LED's (Stay, Chime, Exit, Bypass, and Cancel) will begin to flash. Next, enter the "Go To Program Code" (FACTORY DEFAULT IS [9]-[7]-[1]-[3]). If the "Go To Program Code" is valid, the "Service" LED will flash and the five function LED's will illuminate steadily. You are now in the program mode, ready to select the module to be programmed.

**Note: it is impossible to enter program mode if any partition - or the system - is armed.**

#### SELECTING THE MODULE TO PROGRAM

Since all the modules connected to the NX-4 are programmed through the keypad, the module you are programming should be the first entry. To program the NX-4 control panel, enter [0]-[#]. The [0] is the module number of the control panel and the [#] is the entry key. Other module entry numbers can be found in the corresponding manuals.

#### PROGRAMMING A LOCATION

Once you have entered the number of the module to be programmed, the "Armed" LED will light up, to show that it is waiting for a programming location to be entered. Any location can be accessed by directly entering the desired programming location, followed by the crosshatch (pound) [#] key. If the location you enter is valid, the "Armed" LED will go out, the "Ready" LED will light up, and the binary data for the first segment of this location will be shown by the zone LED's. While entering new data, the "Ready" LED will begin flashing to indicate that a data change is in process. The flashing will continue until the new data are stored, by pressing the [\*] key. When you press the [\*] key, the keypad will advance to the next segment and will display its data. Repeat this procedure until the last segment is reached. Press the [#] key to exit from this location, and the "Armed" LED will light up again - this means that it is waiting for a new programming location to be entered. If you want the next location in the sequence, press the [POLICE] key. If you want the previous location, press the [FIRE] key. If you want the same location, press the [MEDIC] key. To review the data in a location, repeat the above procedure, pressing the [\*] key without any numeric data entry. Each time you press the [\*] key, the programming data of the next segment will be displayed for review.

#### EXITING A LOCATION

After the last segment of a location has been programmed, press the [\*] key to exit that location; this turns the "Ready" LED off and the "Armed" LED on. As before, you are now ready to enter another programming location. If you try to program an invalid entry for a particular segment, the keypad sounder will emit a triple error beep (beep, beep, beep), and it will remain in that segment awaiting a valid entry.

## EXITING THE PROGRAM MODE

When all the desired changes in programming have been made, it is time to exit the program mode. Press the [Exit] key to exit this programming level, and go to the "Select a Module To Program" level. If no additional modules are to be programmed, press the [Exit] key again to exit the program mode. If there is a module to be programmed, you can select it by entering its address, followed by the [#] key (see "Selecting the Module To Program" above). The procedure for programming these devices is the same as for the control panel, except that the locations will be for the module selected.

**Note: the timeout for the program mode is 15 minutes.**

## PROGRAMMING DATA

There are only two possible types of programming data. One type of data is numerical: data of this type can assume values from 0 -15 or 0 -255, depending on the location's segment. The other type is feature selection data: this data is used to turn features on or off. Use the following procedures when working with these two data types:

**Numerical data:** entering a number from 0-255 on the numeric keys of the system keypad programs numerical data. To view the data in a location, a binary process is used. With this process, the LED's for zones 1 through 8 are utilized, and the numeric equivalents of their illuminated LED's are added together to determine the data in a programming location. The numeric equivalents of these LED's are as follows:

Zone 1 LED = 1	Zone 2 LED = 2	Zone 3 LED = 4	Zone 4 LED = 8
Zone 5 LED = 16	Zone 6 LED = 32	Zone 7 LED = 64	Zone 8 LED = 128

**Example:** If the numerical data to be programmed in a location is "66", press [6]-[6] on the keypad. The LED's for zone 2 and zone 7 will light up, showing that 66 is in this location (2 + 64 = 66). See the example p. 26.

Once the data has been programmed, press the [\*] key to enter the data, and advance to the next segment of that location. After the last segment of a location has been programmed, press the [\*] key to exit from that location - this turns the "Ready" LED off and the "Armed" LED on. As before, you are now ready to enter another programming location. If you try to program a number that is too large for a particular segment, the keypad sounder will emit a triple beep to indicate an error, and will remain in that segment awaiting a valid entry. Remark: On the LCD keypad, the number in the location will be displayed. For locations with a maximum of 15, the hexadecimal equivalent will be displayed in parenthesis. Example: 11 (B) or 14 (E).

**Feature selection data:** feature selection data will display the current condition (on or off) of eight features associated with the selected programming location and segment. If you press a button on the keypad (1 to 8) that corresponds to the "feature number" within a segment, this will toggle the feature (on/off). By pressing any numeric key between [1] and [8] to select a feature, you will make the corresponding LED light up (feature ON). Press the number again, and the LED will go out (feature OFF). You will see that numerous features can be selected from within one segment. For instance, if you want all eight features of a segment, pressing [1]-[2]-[3]-[4]-[5]-[6]-[7]-[8] will turn on LED's 1 to 8 as you press the keys, indicating that those features are enabled. After you have selected the setting of the features for this segment, press the [\*] key. This will enter the data and advance automatically to the next segment of the location. When you are in the last segment of a location and you press the [\*] key to enter the data, you will exit from that location as well. This will turn off the "Ready" LED, and will turn on the "Armed" LED. As before, you are now ready to enter another programming location.

## LOADING FACTORY DEFAULTS

To load the factory defaults, enter the program mode using the procedure on page 24, then type **[9]-[1]-[0]-[#]**. The keypad will beep 3 times to indicate that loading is in progress. The loading takes about 6 seconds.

## ENROLLING MODULES AND KEYPADS

For supervision purposes, the presence of all keypads, zone expanders, wireless receivers, and any other modules connected to the data terminal can automatically be found and stored in the NX-4's memory. This allows the control panel to supervise these modules. To enroll the modules, enter the program mode for the NX-4 control panel as described above. If necessary, go on to program the rest of the control panel and the devices. When you exit from program mode, the control panel will automatically enroll the devices. The enrolling process takes about 12 seconds, during which time the "Service" LED will light up. If a module has been enrolled but it is not detected by the control, the "Service" LED will light up.

### PROGRAMMING EXAMPLE (Numerical data)



Zone 1 LED = 1  
Zone 4 LED = 8  
Data = 9



Zone 2 LED = 2  
Zone 7 LED = 64  
Data = 66

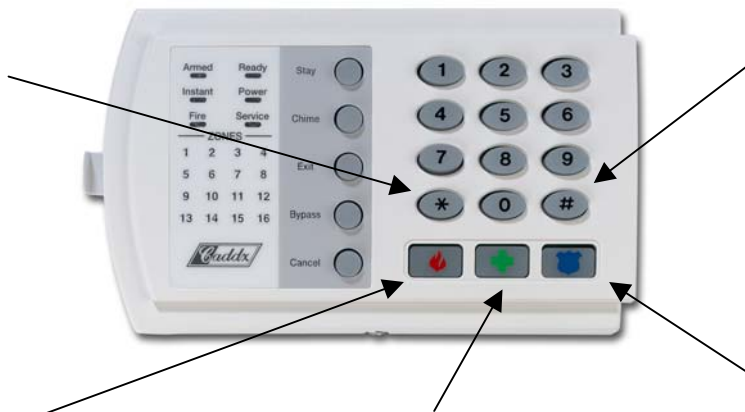
To change data in a segment, enter the data followed by [\*]

Pressing [#] will exit a location without changing the data in the current segment

Enters the previous programming "location"

Returns to the "location" just programmed

Advances to the next programming "location"



## PROGRAMMING EXAMPLE (Feature selection data)



### Location 23, segment 1

- 1 = Quick arm
- 2 = Re-exit
- 3 = Auto bypass
- 4 = Silent keypad panic
- 5 = Audible keypad panic
- 6 = Keypad auxiliary 1
- 7 = Keypad auxiliary 2
- 8 = Multi-keypad tamper

Press the key on the numeric keypad that corresponds to the feature you wish to enable/disable. When a LED is "ON", a feature is enabled, when "OFF" the feature is disabled. For example, with the 1, 5 & 7 LED's "ON", quick arm, audible keypad panic and keypad auxiliary 2 are enabled.

## Programming the NX-4 control panel via LCD keypad

### ENTERING THE PROGRAM MODE

To enter the program mode, press [\*]-[8]. The LCD screen will now prompt you for the programming code. Next, enter the "Go To Program Code" (FACTORY DEFAULT IS 9713). If the "Go To Program Code" is valid, the LCD screen will prompt you for the device address you wish to program. You are now in the program mode, ready to select the module to be programmed.

**Note: it is impossible to enter program mode if any partition - or the system - is armed.**

### SELECTING THE MODULE TO PROGRAM

Since all the modules connected to the NX-4 are programmed through the keypad, the module you are programming should be the first entry. To program the NX-4 Control Panel, enter [0]-[#]. The [0] is the module number of the control panel and the [#] is the entry key. Other module entry numbers can be found in the corresponding manuals.

### PROGRAMMING A LOCATION

Once you have entered the number of the module to be programmed, the LCD screen will prompt you for a location number. Any location can be accessed by directly entering the desired programming location, followed by the crosshatch (pound) [#] key. If the location you enter is valid, 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). Follow the instructions below for each type of data.

**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 you reach the last segment, the keypad will prompt you for the next location. If you wish to exit this location before the last segment is reached, press the [#] key. This keypress will not save the changes made to current segment, but it will exit the location. To proceed to the next location, press the [Police] key. To return to the previous location, press the [Fire] key. To re-enter the last location, press the [Medic] key.

**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 minuses sign (-) appears where the number should be, this switch is off. Toggle the 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, press the [\*] key. 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 you reach the last segment, the keypad will prompt you for the next location. If you wish to exit this location before the last segment is reached, press the [#] key. This keypress will not save the changes made to current segment, but will exit the location. To proceed to the next location, press the [Police] key. To return to the previous location, press the [Fire] key. To re-enter the last location, press the [Medic] key.

**CHARACTER DATA:** Character data is used to enter LCD text when programming (see [\*]-[9]-[2] feature for custom messages). Custom zone descriptions and messages are stored using character or ASCII data types. 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 always, the top line will display the current location and segment number. The five (5) function keys, as well as the 'up' and 'down' arrows to the right of the display, are now used to edit the message before saving it back to the location storage. An underscore ( \_ ) in the display indicates the current cursor location. To move the cursor to the right, press the [\*] key. To move the cursor to the left, press the **[Cancel] key**. To change the character at the current cursor location, press the **Up or Down Arrow** until the desired character is displayed. To accept this character, press the [\*] key. The character will remain, and the cursor will advance one space to the right.

You can also immediately select a character from the underlying table. By doing this you can quickly form a word without having to scroll down all characters in the list

Follow the procedure below to select a character:

- Step 1            Enter the double figured number of the wanted character of the table below.
- Step 2            Confirm the character by pressing the [\*] key.
- Step 3            Repeat steps 1 and 2 until the complete word is formed.
- Step 4            Confirm the word by pressing the [#] key.

Key	Function
[Stay]	Inserting spaces
[Chime]	Deleting characters
[Exit]	Access the library
[Bypass]	Make a character or entire word flashing
[Cancel]	Backspace
[*]	Confirm the word or character being displayed
[#]	Finished editing the line

**NX-148 LIBRARY**

ALARM	DURESS	INSTANT	PIR	STORAGE
AREA	EAST	INTERIOR	PORCH	STUDY
AUDIO	EMERGENCY	JUNK	ROOM	TAMPER
BACK	EXIT	KITCHEN	RUMPUS	TELEVISION
BATHROOM	EXTERIOR	LIBRARY	SAFE	TROUBLE
BEAM	FIRE	LIGHT	SENSOR	TV
BEDROOM	FRONT	LIVING	SHOCK	UP
BUTTON	GAME	MASTER	SHOP	UTILITY
CEILING	GARAGE	MICROWAVE	SIDE	VAULT
CLOSET	GLASSBREAK	MOTION	SKYLIGHT	WAREHOUSE
DELAY	GUEST	NORTH	SLIDING	WEST
DEN	HALL	NURSERY	SMALL	WINDOW
DETECTOR	HEAT	OFFICE	SMOKE	WING
DINING	HOLDUP	PANIC	SOUND	WIRELESS
DOOR	HOUSE	PANTRY	SOUTH	YARD
DOWN	INFRARED	PHONE	STAIRS	ZONE

## ALPHANUMERIC CHARACTER TABEL

1	A	20	T	39	ä	58	n	77	#
2	B	21	U	40	ä	59	o	78	\$
3	C	22	V	41	b	60	ô	79	&
4	D	23	W	42	c	61	ö	80	'
5	E	24	X	43	ç	62	p	81	(
6	F	25	Y	44	d	63	q	82	)
7	G	26	Z	45	e	64	r	83	*
8	H	27	0	46	é	65	s	84	+
9	I	28	1	47	è	66	t	85	,
10	J	29	2	48	ê	67	u	86	-
11	K	30	3	49	f	68	û	87	.
12	L	31	4	50	g	69	ü	88	/
13	M	32	5	51	h	70	v	89	:
14	N	33	6	52	i	71	w	90	;
15	O	34	7	53	î	72	x	91	<
16	P	35	8	54	j	73	y	92	=
17	Q	36	9	55	k	74	z	93	>
18	R	37	a	56	l	75	!	94	.
19	S	38	à	57	m	76	"	95	°

## EXITING THE PROGRAM MODE

When you have made all the desired changes in programming, it is time to exit the program mode. Press the [Exit] key to exit this programming level, and go to the "Select a Module To Program" level. If no additional modules are to be programmed, press the [Exit] key again to exit the program mode. If there is a module to be programmed, you can select it by entering its address, followed by the [#] key (see "Selecting the Module To Program" above). The procedure for programming these devices is the same as for the control panel, except that the locations will be for the module selected.

<b>Note: the timeout for the program mode is 15 minutes.</b>
--

## LOADING FACTORY DEFAULTS

To load the factory defaults, enter the program mode using the above procedure, then type [9]-[1]-[0]-[#]. The keypad will beep 3 times to show that loading is in progress. The loading takes about 6 seconds.

## ENROLLING MODULES AND KEYPADS

For supervision purposes, the presence of all keypads, zone expanders, wireless receivers, and any other modules connected to the data terminal can automatically be found and stored in the NX-4's memory. This allows the control panel to supervise these modules. Note: All modules should be connected and set to unique addresses before modules are enrolled. To enroll the modules, enter the program mode of the NX-4 control panel as described above. If necessary, go on to program the rest of the control panel and devices. When you exit from program mode, the control panel will automatically enroll the devices. The enrolling process takes about 12 seconds, during this time the "Service Screen" will be displayed. If a module has been enrolled but it is not detected by the control, the "Service Screen" will be displayed.

---

## IMPORTANT REMARKS

### Tamper memorization

If location 37 segment 6 option 8 is set, tamper alarm indications (zone tampers and box tampers) can be erased by entering a valid user code.

If location 37 segment 6 option 8 is not set, tamper alarm indications (zone tampers and box tampers) can only be erased by entering the program mode. In this case, tamper alarm indications can only be reset by the installer.

### Disabling tamper alarms in program mode

Tamper alarms (originating from zones and boxes) will be disabled during program mode. This allows the installer to service the system without generating unwanted tamper alarms. Note that the timeout for the program mode is 15 minutes.

### Keypad tamper lockout

When this option is enabled (see location 23, segment 1), the NX-4 will disable the keypad for 60 seconds, and will communicate a tamper signal to the central station if 30 key presses are entered without producing a valid code.

## CONTROL PANEL PROGRAMMING LOCATIONS

☞ For most routine installations, the "Quick Start" option will allow for enabling a majority of the options available with the NX-4, when communicating in Contact ID or SIA formats and without partitioning. The "Quick Start" locations can be identified by the ☞ symbol.

### Telephone number 1

#### ☞ LOCATION 0 - PHONE N° 1 (20 segments, numerical data)

The first telephone number is programmed in location 0. 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. The system will always wait for a dial tone, unless the first digit of the phone number is a "13"; in this case, it will only delay. Pulse dialling is default. If you want Tone (DTMF) dialling, program a "15" in the segment where tone dialling should begin. If the entire number should be tone dialling, program a "15" in the first segment. Program an "11" for a "\*", and a "12" for a "#".

**Note: a zero is programmed as a "0".**

#### ☞ LOCATION 1 - ACCOUNT CODE FOR PHONE N° 1 (6 segments, numerical data)

Location 1 is used to program the account code that is sent when phone N°1 is dialled. A zero in the account code is programmed as a "0". A "10" indicates the end of the account code, so 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 N° 1 (1 segment, numerical data)

Location 2 contains the communicator format used to transmit to the receiver that is connected to phone N°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 you require a format other than those listed, review the override options described in location 18 in order to create the appropriate format. In order to create a special format, a "15" must be programmed in location 2 in addition to the entries in location 18. If this location contains a "0", the built-in communicator will be disabled, and the NX-4 will function as a 'local only' control.

#### ☞ LOCATION 3 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE N° 1 (2 segm., numerical data)

**Segment 1- Dial attempts:** Location 3, segment 1 is used to enter the number of dial attempts (1 to 15) which the communicator will make to phone N°1 before it ends the notification process. Factory default is "8" and the communicator will make 8 attempts to the first number.

**There will be a waiting time of 12 seconds between the first two dial attempts, and a waiting time of 60 seconds between each subsequent dial attempt.**

**Segment 2- Phone N° 1 backup control:** Programming a “0” in segment 2 of this location will cause the NX-4 to make the designated number of attempts to phone N°2 before setting the “Fail To Communicate” condition and stop reporting. Programming a “1” in this segment will cause the NX-4 to stop trying to communicate after the designated number of attempts have been made to phone N°1. If a “2” is programmed in this segment, it will cause the NX-4 to make the dial attempts in increments of two. The first two attempts will be made to phone N°1, the next two attempts to phone N°2, then repeating until the total number of attempts designated in Segment 1 is completed.

## Format selections

DATA	FORMAT	DESCRIPTION
0	Local	Communicator is disabled
1	Ademco Contact ID	DTMF format (see appendix 1-2)
2	Ademco 4/2 Express	DTMF format
3	Reserved	
4	Reserved	
5	Siren Tone Format	Siren sound, for domestic dialling*
6	Reserved	
7	SIA (level 1, supporting level 2 area modifier and level 3 listen-in block)	FSK format (see appendix 1-2).
8	Reserved	
9	Radionics extended fast with parity	Extended event code 1800hz transmit 2300hz handshake single round w/parity 40 PPS extended hex capability
10	Reserved	
11	Ademco/ Silent Knight Slow	1900hz transmit 1400hz handshake 10 PPS double round parity
12	Silent Knight 4+2 fast	Two-digit event code 1900hz transmit 1400hz handshake 20 PPS double round parity
13	Sescoa/Franklin Fast	1800hz transmit 2300hz handshake 20 PPS hex double round
14	SIA (level 1, supporting level 3 listen-in block)	FSK format (see appendix 1-2)
15	Custom format	(See location 18)
16	Vocal format	Voice messages via NX-535, for domestic dialling*
17	XSIA (level 1, supporting level 3 listen-in block)	FSK format (see appendix 1-2)
18	XSIA (level 1, supporting level 2 area modifier and level 3 listen-in block)	FSK format (see appendix 1-2).

**Remark (\*):** The siren tone format (format 5) can be kissed off by pressing the “\*” key on the telephone set (persistent tone of 250 msec. is required).

If you want to trigger a “kiss-off” signal via a GSM, you have to take into account that this function is network provider dependent.

Entering a valid user code on a keypad will stop the dialler when using the siren or vocal format.

## Reporting events to phone number 1

Phone N°1 has two programming locations that are used to select the events which are reported to this phone number.

Location 4 is used to select which events are reported to phone N°1. Location 5 is used to select which partitions are reported to phone N°1. If you do not want dual or split reporting, use location 4 to select all events to phone N°1, and leave location 5 at the factory default of "0". If you want dual or split reporting, and the split is based on the event type (such as alarm, open/close, etc.), you should use location 4 to select only those events that should be reported to phone N°1, and you should leave location 5 at the factory default of "0". If you want dual or split reporting, and the split is based on partition, you should program location 4 as a "0" and use location 5 to select those partitions that are to be reported to phone N°1. If no events are to be reported to phone N°1, both locations should be programmed as "0".

### LOCATION 4 - EVENTS REPORTED TO PHONE N° 1 (2 segments, feature selection data)

- |                  |     |  |
|------------------|-----|--|
| <b>Segment 1</b> | 1 = | Alarms   |
|                  | 2 = | Opening and closings   |
|                  | 3 = | Zone bypass and bypass restores  |
|                  | 4 = | Zone trouble and trouble restores  |
|                  | 5 = | Power fail (AC failure), low battery, power restore (AC restore) , and low battery restore |
|                  | 6 = | Bell cut, bell cut restore, telephone line restore   |
|                  | 7 = | Test reports   |
|                  | 8 = | Start and end programming, download complete and log full                                  |
| <b>Segment 2</b> | 1 = | Zone and box tamper  |
|                  | 2 = | Auxiliary power over-current, and restore  |
|                  | 3 = | Wireless sensor missing and restore  |
|                  | 4 = | Wireless sensor low battery and restore  |
|                  | 5 = | Expander trouble and restore (keypads are considered as expanders)                         |
|                  | 6 = | Fail to communicate  |
|                  | 7 = | Alarm restore  |
|                  | 8 = | Tamper restore   |

### LOCATION 5 - Reserved

## Telephone number 2

### LOCATION 6 - PROGRAMMING PHONE N° 2 (20 segments, numerical data)

Phone N°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. The system will always wait for a dial tone, unless the first digit of the phone number is a "13"; in this case, it will only delay. Pulse dialling is default. If you want Tone (DTMF) dialling, program a "15" in the segment where tone dialling should begin. If the entire number should be tone dialling, program a "15" in the first segment. Program an "11" for a "\*", and a "12" for a "#".

**Note: a zero is programmed as a "0".**

### LOCATION 7 - ACCOUNT CODE FOR PHONE N° 2 (6 segments of numerical data)

Use location 7 to program the account code that is sent when phone N°2 is dialled. A zero in the account code is programmed as a "0". A "10" indicates the end of the account code, so 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 dialled.

### LOCATION 8 - COMMUNICATOR FORMAT FOR PHONE N° 2 (1 segment, numerical data)

Location 8 contains the communicator format used to transmit to the receiver that is connected to phone N°2. Consult the instruction manual for your central station receiver in order to determine which format is compatible, and select from the 15 formats listed on page 33. If you require a format other than those listed, review the override options described in Location 18 to create the appropriate format. In order to create a special format, a "15" must be programmed in location 8, in addition to the entries in location 18. If this location contains a "0", format 1 will be used when phone N°2 is dialled.

### LOCATION 9 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE N° 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) that the communicator will make to phone N°2 before it ends the notification process. Factory default is "0", and the communicator will make the same number of attempts as those programmed in location 3.

**There will be a waiting time of 12 seconds between the first two dial attempts, and a waiting time of 60 seconds between each subsequent dial attempt (regardless of the number dialled).**

**Segment 2, phone N° 2 backup control:** Programming a "0" in segment 2 of this location will cause the NX-4 to make the designated number of attempts to phone N°1 before setting the "fail to communicate" condition and stop reporting. Programming a "1" in this segment will cause the NX-4 to stop trying to communicate after the designated number of attempts have been made to phone N°2. If a "2" is programmed in this segment, it will cause the NX-4 to make the dial attempts in increments of two. The first two attempts will be made to phone N°2, the next two attempts to phone N°1, then repeating until the total number of attempts designated in segment 1 is completed.

## Reporting events to phone number 2

Phone N°2 can be used to back up phone N°1, or as a second receiver to multi-report or split-report events. Phone N°2 has two programming locations that are used to select the events that are reported to this phone number. Location 10 is used to select the events which are reported to phone N°2, and location 11 is used to select which partitions are reported to phone N°2. If you do not want dual or split reporting, location 10 and location 11 should be left at the factory default of "0". If you want multi-reporting or split reporting, 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 N°2, and location 11 should be left at the factory default of "0". If you want dual or split reporting, 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 are to be reported to phone N°2. If no events are to be reported to phone N°2, both locations should be at "0".

### LOCATION 10 - EVENTS REPORTED TO PHONE N° 2 (2 segments of feature selection data)

- |                  |     |  |
|------------------|-----|--|
| <b>Segment 1</b> | 1 = | Alarms   |
|                  | 2 = | Opening and closings   |
|                  | 3 = | Zone bypass and bypass restores  |
|                  | 4 = | Zone trouble and trouble restores  |
|                  | 5 = | Power fail (AC failure), low battery, power restore (AC restore) , and low battery restore |
|                  | 6 = | Bell cut, bell cut restore, telephone line restore   |
|                  | 7 = | Test reports   |
|                  | 8 = | Start and end programming, download complete and log full                                  |
| <b>Segment 2</b> | 1 = | Zone and box tamper  |
|                  | 2 = | Auxiliary power overcurrent, and restore   |
|                  | 3 = | Wireless sensor missing and restore  |
|                  | 4 = | Wireless sensor low battery and restore  |
|                  | 5 = | Expander trouble and restore (keypads are considered as expanders)                         |
|                  | 6 = | Fail to communicate  |
|                  | 7 = | Alarm restore  |
|                  | 8 = | Tamper restore   |

### LOCATION 11 - Reserved

## Telephone number 3

### LOCATION 12 - PROGRAMMING PHONE N° 3 (20 segments, numerical data)

Phone N°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. The system will always wait for a dial tone, unless the first digit of the phone number is a "13"; in this case, it will only delay. Pulse dialling is default. If you want Tone (DTMF) dialling, program a "15" in the segment where tone dialling should begin. If the entire number should be tone dialling, program a "15" in the first segment. Program an "11" for a "\*", and a "12" for a "#".

**Note: a zero is programmed as a "0".**

### LOCATION 13 - ACCOUNT CODE FOR PHONE N° 3 (6 segments, numerical data)

Use location 13 to program the account code that is sent when phone N°3 is dialled. A zero in the account code is programmed as a "0". A "10" indicates the end of the account code, so 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 un-programmed, account code 1 will be used when phone N°3 is dialled.

### LOCATION 14 - COMMUNICATOR FORMAT FOR PHONE N° 3 (1 segment, numerical data)

Location 14 contains the communicator format used to transmit to the receiver that is connected to phone N°3. Consult the instruction manual for your central station receiver in order to determine which format is compatible, and select from the 15 formats listed on page 33. If you require a format other than those listed, review the override options described in location 18 to create the appropriate format. In order to create a special format, a "15" must be programmed in location 14, in addition to the entries in location 18. If this location contains a "0", format 1 will be used when phone N°3 is dialled.

### LOCATION 15 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE N° 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) that the communicator will make to phone N°3 before it ends the notification process. Factory default is "0", and the communicator will make the same number of attempts as those programmed in location 3.

**There will be a waiting time of 12 seconds between the first two dial attempts, and a waiting time of 60 seconds between each subsequent dial attempt (regardless of the number dialled).**

**Segment 2, Phone # 3 Backup Control:** Programming a "0" in segment 2 of this location will cause the NX-4 to make the designated number of attempts to phone N°2 before setting the "Fail To Communicate" condition and stop reporting. Programming a "1" in this segment will cause the NX-4 to stop trying to communicate after the designated number of attempts have been made to phone N°3. If a "2" is programmed in this segment, it will cause the NX-4 to make the dial attempts in increments of two. The first two attempts will be made to phone N°3, the next two attempts to phone N°2, then repeating until the total number of attempts designated in segment 1 is completed.

## Reporting events to phone number 3

Phone N°3 can be used as a third receiver to multi-report or split report events. Phone N°3 has two programming locations that are used to select the events that are reported to this phone number. Location 16 is used to select which events are reported to phone N°3, and location 17 is used to select which partitions are reported to phone N°3. If you do not want dual or split reporting, location 16 and location 17 should be left at the factory default of "0". If you want multi-reporting or split reporting, 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 N°3, and location 17 should be left at the factory default of "0". If you want dual or split reporting, and 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 are to be reported to phone N°3. If no events are to be reported to phone N°3, both locations should be at "0".

### LOCATION 16 - EVENTS REPORTED TO PHONE N° 3 (2 segments, feature selection data)

- |                  |     |   |
|------------------|-----|---|
| <b>Segment 1</b> | 1 = | Alarms  |
|                  | 2 = | Opening and closings  |
|                  | 3 = | Zone bypass and bypass restores   |
|                  | 4 = | Zone trouble and trouble restores   |
|                  | 5 = | Power fail (AC failure), low battery, power restore (AC restore), and low battery restore |
|                  | 6 = | Bell cut, bell cut restore, telephone line restore  |
|                  | 7 = | Test reports  |
|                  | 8 = | Start and end programming, download complete and log full                                 |
| <b>Segment 2</b> | 1 = | Zone and box tamper   |
|                  | 2 = | Auxiliary power overcurrent, and restore  |
|                  | 3 = | Wireless sensor missing and restore   |
|                  | 4 = | Wireless sensor low battery and restore   |
|                  | 5 = | Expander trouble and restore (keypads are considered as expanders)                        |
|                  | 6 = | Fail to communicate   |
|                  | 7 = | Alarm restore   |
|                  | 8 = | Tamper restore  |

### LOCATION 17 - Reserved

## Special formats

### LOCATION 18 - CUSTOM COMMUNICATOR FORMAT (see locations 2, 8, and 14)

- Segment 1**
- 1 = On for 1800hz transmit; Off for 1900hz
  - 2 = On for 2300hz handshake; Off for 1400hz
  - 3 = On for checksum parity; Off for double round parity
  - 4 = On for 2 digit event code; Off for 1 digit event code
  - 5 = On for extended reporting; Off for non-extended reporting
  - 6 = Reserved
  - 7 = On for 20 PPS; Off for 10 or 40 PPS
  - 8 = On for 10 PPS; Off for 20 or 40 PPS

- Segment 2**
- 1 = On for pager format (no handshake required).
  - 2 = On for 1400/2300 handshake
  - 3 = Reserved
  - 4 = Reserved
  - 5 = On for Contact ID
  - 6 = On for SIA
  - 7 = On for 3 digit event code
  - 8 = On for DTMF

- Segment 3** Reserved

- Segment 4** Inter-digit time for pulse format:  
The inter-digit time is the value programmed on this location, divided by the pulse-rate (PPS) of the programmed format. This is programmed in a binary way: in order to program the value "10", options 2 and 4 must be selected, for value "5", options 1 and 3 must be selected.

Ex: when the value 10 is programmed on segment 4 and a pulse format of 20 PPS is used, the inter-digit time is  $10/20 = 0.5$  sec.

## Download parameters

### ☞ LOCATION 19 - DOWNLOAD ACCESS CODE (8 segments, numerical data)

Location 19 contains the eight-digit access code that the NX-4 must receive from the downloading software before the panel will allow downloading. The factory default code is 84800000.

### ☞ LOCATION 20 - NUMBER OF RINGS TO ANSWER (1 segment, numerical data)

Location 20 contains the number of rings to answer for a download. Enter a number from "0" (disabled) to "15". Factory default is "12", so the NX-4 will answer after 12 rings.

### LOCATION 21 - DOWNLOAD CONTROL (1 segment, feature selection data)

Location 21 contains the feature selections to control download sessions. The following features can be enabled or disabled using this location (see the feature definitions on pages 5-11).

- |                  |     |  |
|------------------|-----|--|
| <b>Segment 1</b> | 1 = | On: enables two call answering machine defeat  |
|                  | 2 = | Reserved   |
|                  | 3 = | On: requires call-back before download session   |
|                  | 4 = | Shutdown (can only be viewed from the keypad; must be changed by downloading)  |
|                  | 5 = | On: locks all local programming. (can only be viewed from the keypad; must be changed by downloading)  |
|                  | 6 = | On: locks programming of all locations associated with the communicator (can only be viewed from the keypad; must be changed by downloading) |
|                  | 7 = | On: locks out download section. (If "On", locations 19-22 cannot be viewed from the keypad; can only be viewed from the keypad when "Off".)  |
|                  | 8 = | On: enables call-back at auto test interval  |

### LOCATION 22 - DOWNLOAD CALL BACK NUMBER (20 segments, numerical data)

If a telephone number is programmed into this location, and "Require Call-back" is enabled in location 21, the control panel will hang up for approximately 36 seconds (ensuring that the calling party has disconnected), and then call back. The system will always wait for a dial tone unless the first digit of the phone number is a "13"; in this case, it will only delay. Pulse tone dialling is default. If you want Tone (DTMF) dialling, program a "15" in the segment where Tone (DTMF) dialling should begin. If the entire number should be Tone (DTMF) dialling, program a "15" in the first segment. Four-second delays can be obtained anywhere in the sequence by programming a "13" in the appropriate delay location.

**Note: a zero is programmed as a "0".**

**WARNING: YOU SHOULD ALWAYS CHECK THAT THE CALLBACK PHONE NUMBER IS ACCURATE BEFORE DISCONNECTING.**

---

## Feature and report selections (for partition 1)

### ☞ LOCATION 23 - PARTITION 1, FEATURE AND REPORT SELECTIONS (5 segments, feature selection data)

Location 23 is used to enable certain features that the user can access or see 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.

This location contains 5 segments of 8 features each (see the feature definitions).

- Segment 1**
- 1 = On: enables the quick arm feature (for exit and stay mode)
  - 2 = On: enables the re-exit feature
  - 3 = On: enables the automatic bypass feature (of interior zones)
  - 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 (MEDICAL)
  - 8 = On: enables the keypad multiple code attempt tamper feature (keypad lockout)
- 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 = On: enables the AC power/low battery sounder alert feature
  - 5 = On: enables bypass toggle
  - 6 = On: enables silent auto arm
  - 7 = On: enables the automatic instant feature (of entry/exit zones)
  - 8 = On: enables final set door
- Segment 3**
- 1 = On: enables opening and closing reports
  - 2 = On: enables zone bypass reporting
  - 3 = On: enables zone restore reporting
  - 4 = On: enables zone trouble reporting
  - 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
- Segment 4**
- 1 = On: enables late to close / early to open reporting
  - 2 = On: enables auto arm in STAY mode
  - 3 = On: enables instant NIGHT mode (applies to NX-1208E / NX-1248E: no toggle)
  - 4 = On: tamper when sensor lost if armed
  - 5 = On : enables instant STAY mode (toggle)
  - 6 = On: arming allowed with tamper memory / communication failure/ expander trouble
  - 7 = On : arming allowed with battery trouble
  - 8 = On: keyswitch zone arms in STAY mode

- |                  |     |   |
|------------------|-----|---|
| <b>Segment 5</b> | 1 = | On: Disables auto-bypassing of force armable zones at the end of the exit delay |
|                  | 2 = | Reserved  |
|                  | 3 = | Reserved  |
|                  | 4 = | Reserved  |
|                  | 5 = | Reserved  |
|                  | 6 = | Reserved  |
|                  | 7 = | Reserved  |
|                  | 8 = | Reserved  |

## Entry/Exit timers

### LOCATION 24 - ENTRY / EXIT TIMERS (6 segments, numerical data)

Location 24 is used to program the entry/exit times. There are 2 separate entry/exit times.

- |                  |              |  |
|------------------|--------------|--|
| <b>Segment 1</b> | Entry time 1 | This is the entry time that will be used when a delay 1 zone type initiates an entry delay.<br>Valid entries are 10-255 seconds. |
| <b>Segment 2</b> | Exit time 1  | This is the exit time that will be used for all zones designated as delay 1.<br>Valid entries are 10-255 seconds.                |
| <b>Segment 3</b> | Entry time 2 | This is the entry time that will be used when a delay 2 zone type initiates an entry delay.<br>Valid entries are 10-255 seconds. |
| <b>Segment 4</b> | Exit time 2  | This is the exit time that will be used for all zones designated as delay 2.<br>Valid entries are 10-255 seconds.                |
| <b>Segment 5</b> | Reserved     |  |
| <b>Segment 6</b> | Reserved     |  |

## Zone configurations and partition selection

### DEFAULT ZONE CONFIGURATIONS

Zones can be programmed to be one of thirty different zone configurations (zone types). The default zone configurations are listed below. Programming locations 110-169 can customise all zone configurations.

DATA	R conf.	DESCRIPTION OF DEFAULT CONFIGURATION
1	1	<b>DAY ZONE</b> Instant when system is armed; trouble zone when system is disarmed. A day zone will only work if programmed for single end-of-line resistor.
2	1	<b>24 HOUR AUDIBLE</b> Creates an instant yelping siren alarm regardless of the arming state of the control panel. This zone type is not abortable. This zone can be bypassed.
3	1	<b>ENTRY/EXIT DELAY 1</b> A trip will start entry delay 1. Absence of a trip during the exit delay will enable the Automatic Bypass or Instant mode, if so programmed.
4	1	<b>FOLLOWER (WITH AUTO- BYPASS DISABLED)</b> This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry and exit delay times. This zone will not bypass automatically, even if enabled in segment 1 of location 23.
5	1	<b>INTERIOR FOLLOWER (WITH AUTO- BYPASS ENABLED)</b> This zone will be instant 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 bypass automatically, if enabled in segment 1 of location 23.
6	1	<b>INSTANT WITH CHIME ENABLED</b> This zone creates an instant alarm whenever it is tripped and the armed LED is on.
7	1	<b>24 HOUR SILENT</b> Creates an instant silent alarm regardless of the arming state of the control panel. It will not display on the keypad.
8	1	<b>FIRE</b> This zone will light up the fire LED and sound the steady siren each time the zone is shorted. It will also rapidly flash the fire LED, indicating trouble if the zone is open. This zone cannot be bypassed.
9	1	<b>ENTRY/EXIT DELAY 2</b> A trip will start entry delay 2. Absence of a trip during the exit delay will enable the automatic bypass or instant mode, if so programmed.
10	2	<b>ENTRY/EXIT DELAY 2 WITH DOUBLE EOL</b> A trip will start entry delay 2. Absence of a trip during the exit delay will enable the automatic bypass or instant mode, if so programmed.
11	1	<b>MOMENTARY KEYSWITCH ZONE</b> This zone type will arm and disarm the partition or partitions of the control panel where it is resident, every time the zone is shorted. Keyswitch arming will report as user 99.
12	1	<b>CHIME ONLY</b> Creates no alarm regardless of the armed state of the control panel. It will chime anytime it is faulted and will display on the keypad. Local only.

13	2	<p><b>ENTRY/EXIT DELAY 1 WITH DOUBLE EOL</b></p> <p>A trip will start entry delay 1. Absence of a trip during the exit delay will enable the Automatic Bypass or Instant mode, if so programmed.</p>
14	2	<p><b>FOLLOWER WITH DOUBLE EOL (WITH AUTO- BYPASS DISABLED)</b></p> <p>This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry and exit delay times. This zone will not bypass automatically, even if enabled in segment 1 of location 23.</p>
15	2	<p><b>INTERIOR FOLLOWER WITH DOUBLE EOL (WITH AUTO- BYPASS ENABLED)</b></p> <p>This zone will be instant 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 bypass automatically, if enabled in segment 1 of location 23.</p>
16	2	<p><b>INSTANT WITH DOUBLE EOL</b></p> <p>This zone creates an instant alarm whenever it is tripped and the armed LED is on.</p>
17	1	<p><b>ENTRY/EXIT DELAY 1 WITH GROUP BYPASS ENABLED -</b> A trip will start entry delay 1. This zone will bypass when the "Group Bypass" command is entered at the keypad. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.</p>
18	1	<p><b>FOLLOWER WITH GROUP BYPASS ENABLED -</b> This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry and exit delay 1 times. This zone will bypass when the "Group Bypass" command is entered at the keypad.</p>
19	1	<p><b>INTERIOR FOLLOWER WITH AUTO- BYPASS AND GROUP BYPASS ENABLED -</b> This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay 1 times. This zone will automatically bypass if enabled in Segment 1 of Location 23 or when the "Group Bypass" command is entered at the keypad.</p>
20	1	<p><b>INSTANT WITH GROUP BYPASS ENABLED</b></p> <p>This zone creates an instant alarm whenever it is tripped and the armed LED is on. This zone will bypass when the "Group Bypass" command is entered at the keypad</p>
21	1	<p><b>FOLLOWER WITH "CROSS ZONE" ENABLED -</b> This zone will be instant when the system 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.</p>
22	1	<p><b>INSTANT WITH "CROSS ZONE" ENABLED -</b> If a "Cross Zone" is being timed, this zone creates an instant alarm when the Armed LED is on. If a "Cross Zone" is not being timed it will start a "Cross Zone" timer.</p>
23	2	<p><b>FOLLOWER WITH "CROSS ZONE" AND DOUBLE EOL ENABLED -</b> This zone will be instant when the system 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.</p>
24	2	<p><b>INSTANT WITH "CROSS ZONE" AND DOUBLE EOL ENABLED -</b> If a "Cross Zone" is being timed, this zone creates an instant alarm when the Armed LED is on. If a "Cross Zone" is not being timed it will start a "Cross Zone" timer.</p>
25	1	<p><b>INSTANT WITH CHIME DISABLED</b></p> <p>This zone creates an instant alarm whenever it is tripped and the armed LED is on.</p>
26	1	<p><b>ENTRY/EXIT DELAY 1 FORCE ARMABLE WITH CHIME ENABLED</b></p> <p>A trip will start entry delay 1. Absence of a trip during exit delay will enable the automatic bypass or instant mode, if so programmed. This zone is force armable (see feature definitions).</p>
27	1	<p><b>FOLLOWER (WITH AUTO- BYPASS DISABLED) , FORCE ARMABLE</b></p> <p>This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry and exit delay times. This zone will not bypass automatically, even if enabled in segment 1 of location 23. This zone is force armable (see feature definitions).</p>

---

28	1	<b>LOCAL INSTANT</b> This zone creates an instant alarm not to be reported whenever it is tripped and the Armed LED is on.
29	1	<b>FOLLOWER ENTRY GUARD WITH ACTIVITY SUPERVISION ENABLED</b> This zone will be instant when the system is armed AWAY and no entry or exit delays are being timed. It is delayed during entry and exit delay times and when the panel is armed in the STAY/INSTANT mode. It will send a report if the zone activity time is reached without a change of state (see location 40, segment 11 and locations 110-169).
30	1	<b>INSTANT WITH ZONE ACTIVITY SUPERVISION ENABLED</b> This zone creates an instant alarm whenever it is tripped and the armed LED is on. It will send a report if the zone activity time is reached without a change of state. Refer to Location 40 / Segment 11.

## LOCATION 25 - ZONES 1-8 CONFIGURATION GROUP (8 segments, numerical data)

Location 25 contains the configuration group (zone type) for zones 1-8. Segment 1 is for zone 1, and segment 8 is for zone 8. You will find the default configurations in the table above.

## LOCATION 26-36 - RESERVED

## General options

### LOCATION 37 - SIREN AND SYSTEM SUPERVISION (7 segments, feature selection data)

Location 37 is used to enable various system feature and reporting options.

- |                  |     |  |
|------------------|-----|--|
| <b>Segment 1</b> | 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 (pulse)   |
|                  | 4 = | On: if siren blast at exit expiration (pulse)  |
|                  | 5 = | On: if siren blast at closing kiss-off (pulse)   |
|                  | 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   |
| <b>Segment 2</b> | 1 = | On: if siren driver should be a voltage output. Off: if on-board siren driver is enabled                                     |
|                  | 2 = | On: if sirens sound for expander trouble   |
|                  | 3 = | On: for zones to restore immediately. Off: for zones to restore only when the siren is off or disarmed                       |
|                  | 4 = | On: if dynamic battery test is performed at arming. Off: if dynamic battery test is performed at disarming (See location 40) |
|                  | 5 = | On: if battery missing test is performed every 12 seconds  |
|                  | 6 = | On: if manual bell test is performed during [*]-[4]-[4] test function  |
|                  | 7 = | On: if manual communicator test is performed during [*]-[4]-[4] test function  |
|                  | 8 = | On: if Box Tamper terminals on the control panel are enabled   |
| <b>Segment 3</b> | 1 = | On: if box tamper report is enabled  |
|                  | 2 = | On: if AC fail reporting is enabled  |
|                  | 3 = | On: if low battery reporting is enabled  |
|                  | 4 = | On: if Aux. power overcurrent report is enabled  |
|                  | 5 = | On: if siren supervision report is enabled   |
|                  | 6 = | On: if restore telephone line cut report is enabled  |
|                  | 7 = | On: A+B Alarm. Off: cross-zoning   |
|                  | 8 = | On: if expander trouble reporting is enabled   |

- Segment 4**
- 1 = On: if fail to communicate report is enabled
  - 2 = On: if log full report is enabled
  - 3 = On: if autotest report is enabled
  - 4 = On: if start/end programming report is enabled
  - 5 = On: if end download report is enabled
  - 6 = On: if sensor low battery report is enabled
  - 7 = On: if sensor missing report is enabled
  - 8 = On: if autotest report is enabled ONLY when the system is armed
- Segment 5**
- 1 = On: enable lost clock service light
  - 2 = On: enables Zone Doubling (requires NX-200 Zone Doubling Kit).
  - 3 = On: disables on-board 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 = Reserved
  - 8 = On: switch "summer/wintertime" and vice versa
- Segment 6**
- 1 = Reserved
  - 2 = On: Use internal crystal for clock
  - 3 = On: zone activity monitor in hours (not in days)
  - 4 = On: enables first alarm logic
  - 5 = On: enables log protection
  - 6 = On : disables Clean Me report
  - 7 = On : siren output is steady in case of fire alarm
  - 8 = On: valid user code will reset tamper memory
- Segment 7** 1-8 Reserved

#### LOCATION 38 - SWINGER SHUTDOWN COUNT

Location 38 contains the number of trips on a zone before that zone will be automatically bypassed. From 0 to 255. Refer to the feature definitions.

#### 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 for an 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 = On: if keypad sounds for Emergency keys
  - 8 = Expander trouble

## LOCATION 40 - SYSTEM TIMERS (14 segments, numerical data)

Location 40 contains the duration of various system timing functions. Example: If you want the duration of the dynamic battery test to be 30 minutes, you should program [3]-[0]-[\*] in segment 1 of this location. The [3]-[0] is the number of minutes; the [\*] stores the data, and moves to the next segment of this location.

<b>Segment 1</b>	Dynamic battery test duration in minutes, 0-255 minutes ("0" = no test)
<b>Segment 2</b>	AC fail report delay in minutes, 0-255 minutes
<b>Segment 3</b>	Power up delay in seconds, 0-60 seconds ("0" = no power up delay)
<b>Segment 4</b>	Siren time in minutes, 1-255 minutes
<b>Segment 5</b>	Telephone line cut delay in seconds, 0-255 seconds ("0" = no telephone line monitoring enabled)
<b>Segment 6</b>	Cross zone time in minutes, 0-255 ("0" = no cross zoning)
<b>Segment 7</b>	Chime time in 50 msec. (1/ 20th second) increments from 0-12 seconds ("0" = follows zone 255 latched)
<b>Segment 8</b>	Dial delay in seconds, 0-255 seconds (0 no abort delay)
<b>Segment 9</b>	Fire alarm verification time in seconds, 120-255 seconds ("0" = no fire alarm verification). Values less than 120 sec. are considered as 120 sec.
<b>Segment 10</b>	Listen-in time in seconds, 0-255 ("0" = no listen-in time)
<b>Segment 11</b>	Zone activity monitor feature timed in hours/days, 0-255 ("0" = disabled)
<b>Segment 12</b>	Auto arming warning timer, 1-255 minutes
<b>Segment 13</b>	Auto arming retry timer, 1-255 minutes
<b>Segment 14</b>	Reserved

## LOCATION 41 - CODE REQUIREMENTS (1 segment, feature data)

<b>Segment 1</b>	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 YOU EXIT FROM PROGRAMMING
	2 = On: requires code entry for [*]-[9]-[8] (perform callback download) and [*]-[9]-[9] (answer incoming call for download) functions
	3 = On: enables Auto Cancel / Abort
	4 = Reserved
	5 = On: keypad shutdown mode
	6 = On: user authorisation to enter program mode
	7 = Reserved
	8 = Reserved

## LOCATION 42 - GO TO PROGRAM CODE (6 segments, numerical data)

Location 42 contains the "Go To Program Code". This location contains a code with either 4 or 6 digits. 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-4 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 data)**

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. (It is not possible to change this code in the run mode).

- |                  |     |  |
|------------------|-----|--|
| <b>Segment 1</b> | 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   |
| <b>Segment 2</b> |     | Reserved   |

**☞ LOCATION 44 - DURESS CODE (6 segments, numerical data)**

Location 43 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 the duress code is programmed, it will work for all partitions.

## Programming the outputs

LOCATION 45 – Reserved

### LOCATION 46 - AUXILIARY OUTPUT 1-2 SPECIAL TIMING (2 segments, feature selection data)

Location 46 contains special timing feature activation for the 2 auxiliary outputs. Segment 1 corresponds to output 1 and segment 2 corresponds to output 2.

- |                    |     |  |
|--------------------|-----|--|
| <b>Segment 1-2</b> | 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 when the code is entered; Off: if the output should continue to time when the code is entered |
|                    | 4 = | On: if output should only activate between the closing and opening time in locations 52 and 53                                 |
|                    | 5 = | On: if output should only activate between the opening and closing time in locations 52 and 53                                 |
|                    | 6 = | On: if output should be inverted (0 volts going to 12 volts when activated)  |
|                    | 7 = | Reserved   |
|                    | 8 = | Reserved   |

### LOCATION 47 - AUXILIARY OUTPUT 1, EVENT AND TIME (2 segments, numerical data)

- |                  |   |
|------------------|---|
| <b>Segment 1</b> | Use the chart below to select the event that will activate auxiliary output 1 (relay 1)   |
| <b>Segment 2</b> | Program the timing from 0-255 (minutes or seconds, depending on the data programmed in segment 1, location 46). Programming a "0" makes the output follow the event |

### LOCATION 48 - AUXILIARY OUTPUT 2, EVENT AND TIME (2 segments, numerical data)

- |                  |   |
|------------------|---|
| <b>Segment 1</b> | Use the chart below to select the event that will activate auxiliary output 2 (relay 2)   |
| <b>Segment 2</b> | Program the timing from 0-255 (minutes or seconds, depending on the data programmed in segment 2, location 46). Programming a "0" makes the output follow the event |

LOCATION 49-50 - Reserved

### AUXILIARY OUTPUT EVENT SELECTION

DATA	EVENT	DATA	EVENT
0✓	Burglary alarm	30	Open period
1✓	Fire alarm	31	Closed period
2✓	24 hour alarm	32	Listen-in
3✓	Trouble alarm	33	Line seizure
4	Tamper alarm	34	Reserved
5	Yelping siren	35	Fail to communicate
6	Steady siren	36	Telephone line fault
7	Any siren	37	Program mode
8	Any bypass	38	Download in process
9	AC fail	39	Reserved
10	Low battery	40	Short circuit (overcurrent on 12 Vdc)
11✓	Duress	41	Box tamper
12✓	Aux 1 keypad (fire alarm)	42	Siren tamper
13✓	Aux 2 keypad (medical alarm)	43	Any open
14✓	Panic keypad	44	Any short
15	Keypad tamper	45	Any fault (open/short on non-fire zone)
16✓	Autotest	46✓	Any alarm
17	Alarm memory	47	Beeping keypad
18	Entry	48♦✓	Code entry (see note below)
19	Exit	49♣✓	Key FOB function 1
20	Entry or exit	50♣✓	Key FOB function 2
21	Armed state	51	Always ON
22	Disarmed state	52	Autoarm warning time
23	Ready	53	Any siren when in away mode
24	Not ready	54	Progress of entry/exit (follows keypad buzzer)
25	Fire	55	Auxiliary communication failure
26	Fire trouble	56	Radio test
27	Chime	57	Any siren when armed in any mode
28✓	Expander trouble	58	Flash on Alarm memory
29	Dynamic battery test time		

Note :

- ♦ When event 48 is programmed, it is possible to program a user code authorisation to select the output(s), which a particular code will activate. When LED 8 is on for an authorisation, then LED's -24 will correspond to the code that activates outputs 1 - 2 respectively. (See "Programming the LED Keypads")
- ♣ Events 49 and 50 require one or more of the following to operate: wireless receivers or cardreaders.
- ✓ If set to follow condition, these events will be 1 second.

## Setup for auto-test, auto-arm and opening/closing times

### LOCATION 51 - AUTOTEST CONTROL (4 segments, numerical data)

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

### LOCATION 52 - OPENING TIME/AUTOMATIC DISARMING TIME (2 segments, numerical data)

Location 52 contains the time (in 24 hour format) when the NX-4 will enable the disarm capability for codes designated as 'arm only after closing'. This time is only valid on those days programmed in location 54. This is also the time when the panel will automatic disarm.

Note: Opening time must be earlier than closing time so that autoarm, Aux. outputs, or code authorisation can function properly.

- |                  |  |
|------------------|--|
| <b>Segment 1</b> | Program the hour of the opening time                   |
| <b>Segment 2</b> | 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) when the NX-4 will disable the disarm capability for codes designated as 'arm only after closing'. This is also the time when the automatic arming sequence will begin (if this option is enabled in location 55).

Note: Opening time must be earlier than closing time so that auto arm, Aux. outputs, or code authorisation can function properly.

- |                  |   |
|------------------|---|
| <b>Segment 1</b> | Program the hour of the closing / auto arm time                   |
| <b>Segment 2</b> | Program the minutes after the hour of the closing / auto arm time |

---

**LOCATION 54 - DAYS OF THE WEEK "ARM ONLY AFTER CLOSE WINDOW" CODES (1 Segment, feature selection data)**

Location 54 selects the days of the week the system is open. On these days, "arm only after close window" codes will be able to arm and disarm during "open window". On days not selected here, "arm only after close window" codes will not be able to disarm.

Note: If the system programmed to auto-arm (location 55), the NX-4 will try to arm every 45 minutes for the duration of the close period.

On days not selected here, "arm only after close window" codes will not disarm.

- Segment 1**
- 1 = "Arm only after close window" will arm/disarm on Sunday
  - 2 = "Arm only after close window" will arm/disarm on Monday
  - 3 = "Arm only after close window" will arm/disarm on Tuesday
  - 4 = "Arm only after close window" will arm/disarm on Wednesday
  - 5 = "Arm only after close window" will arm/disarm on Thursday
  - 6 = "Arm only after close window" will arm/disarm on Friday
  - 7 = "Arm only after close window" will arm/disarm on Saturday
  - 8 = Reserved

**LOCATION 55 - DAYS OF THE WEEK FOR AUTO ARMING (1 Segment, feature selection data)**

Location 55 selects the days on which the system will auto-arm. If a zone is faulted before the warning timer and stays faulted during the warning timer, the zone will automatically be bypassed. If the zone restores, it will be unbypassed and active in the system.

- Segment 1**
- 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 = Disable retry timer

## Communicator codes for slow speed formats only

LOCATIONS 56-83 ARE ONLY USED WHEN REPORTING EVENTS TO A PAGER, OR WHEN USING A SLOW FORMAT SUCH AS 4+2. WHEN USING CONTACT ID OR SIA, THERE IS NO NEED TO PROGRAM THESE LOCATIONS.

### LOCATION 56 - ALARM/RESTORE COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (8 segments, numerical data)

Location 56 contains the event code for any zone "Alarm" and "Restore" for a 4+2 and 3+1 format. For a 4+2 format, the digit programmed in this location will be sent as the tens digit of the alarm event code. As ones digit, the zone number (1-8) will be reported (e.g. zone 1 = 1, zone 8 = 8).

This location contains 8 segments but only segment 1 and 5 are used.

Segment 1 contains the alarm code for zone 1 to 8.

Segment 5 contains the restore code for zone 1 to 8.

<b>Segment 1</b>	Zones 1-8, "Alarm Code"
<b>Segment 2-4</b>	Reserved
<b>Segment 5</b>	Zones 1-8, "Restore Code"
<b>Segment 6-8</b>	Reserved

### LOCATION 57 - BYPASS COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (8 segments, numerical data)

Location 57 contains the event code for a zone "Bypass" with a 4+2 and 3+1 format. For a 4+2 format, the digit programmed in this location will be sent as the tens digit. As ones digit, the zone number (1-8) will be reported (e.g. zone 1 = 1, zone 8 = 8).

When unbypassing a zone, the restore code of location 56 will be used.

<b>Segment 1</b>	Zones 1-8, "Bypass Code"
<b>Segment 2-8</b>	Reserved

### LOCATION 58 - TAMPER COMMUNICATOR CODE, SLOW SPEED FORMATS (8 segments, numerical data)

Location 58 contains the event code for a zone "Tamper" with a 4+2 and 3+1 format. For a 4+2 format, the digit programmed in this location will be sent as the tens digit. As ones digit, the zone number (1-8) will be reported (e.g. zone 1 = 1, zone 8 = 8).

To report a restore, the restore code of location 56 will be used.

<b>Segment 1</b>	Zones 1-15, "Tamper Code"
<b>Segment 2-8</b>	Reserved

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**LOCATION 59 - TROUBLE COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (8 segments, numerical data)**

Location 59 contains the event code for a zone "Trouble" with a 4+2 and 3+1 format. For the 4+2 format, the digit programmed in this location will be sent as the tens digit. As ones digit, the zone number (1-8) will be reported (e.g. zone 1 = 1, zone 8 = 8).

To report a restore, the restore code of location 56 will be used.

**Segment 1** Zones 1-8, "Trouble Code"  
**Segment 2-8** Reserved

**LOCATION 60 - SENSOR LOW BATTERY COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (8 segments, numerical data)**

Location 60 contains the event code for a zone "Sensor Low Battery" for a 4+2 and 3+1 format. For a 4+2 format, the digit programmed in this location will be sent as the tens digit. As ones digit, the zone number (1-8) will be reported (e.g. zone 1 = 1, zone 8 = 8).

To report a restore, the restore code of location 56 will be used.

**Segment 1** Zones 1-8, "Sensor Low battery Code"  
**Segment 2-8** Reserved

**LOCATION 61 - SENSOR MISSING COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (8 segments, numerical data)**

Location 61 contains the event code for a zone "Sensor-missing" for a 4+2 and 3+1 format. For a 4+2 format, the digit programmed in this location will be sent as the tens digit. As ones digit, the zone number (1-8) will be reported (e.g. zone 1 = 1, zone 8 = 8).

To report a restore, the restore code of location 56 will be used.

**Segment 1** Zones 1-8, "Sensor Missing Code"  
**Segment 2-8** Reserved

**LOCATION 62 - DURESS COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 62 contains the tens and ones digits that will be sent for a 4+2 and 3+1 format if the Duress code is enabled in location 44. Segment 1 contains the tens digit, and segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

**LOCATION 63 - KEYPAD AUXILIARY 1 COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 63 contains the tens and ones digits that will be sent for a 4+2 and 3+1 format if the keypad "Auxiliary 1" (FIRE) is enabled in the partition feature selection. Segment 1 contains the tens digit; segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

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**LOCATION 64 - KEYPAD AUXILIARY 2 COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 64 contains the tens and ones digits that will be sent for a 4+2 and 3+1 format if the keypad "Auxiliary 2" (MEDICAL) is enabled in the partition feature selection. Segment 1 contains the tens digit; segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

**LOCATION 65 - KEYPAD PANIC COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 65 contains the tens and ones digits that will be sent for a 4+2 and 3+1 format if the keypad "Panic" is enabled in the partition feature selection. Segment 1 contains the tens digit, and segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

**LOCATION 66 - KEYPAD MULTIPLE CODE ENTRY TAMPER COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 66 contains the tens and ones digits that will be sent for a 4+2 and 3+1 format if the keypad "Multiple Code Entry" (Tamper) is enabled in the partition feature selection. Segment 1 contains the tens digit, and segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

**LOCATION 67 - BOX TAMPER / BOX TAMPER RESTORE COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 67 contains the tens and ones digits that will be sent for a 4+2 and 3+1 format if the "Box Tamper" feature is enabled in location 37. Segment 1 contains the tens digit of the "Box Tamper". Segment 2 contains the ones digit of the "Box Tamper". Segment 3 contains the tens digit of the "Box Tamper Restore". Segment 4 contains the ones digit of the "Box Tamper Restore".

For a 3+1 format, only the segment 1 resp. segment 3 digit (tens) will be sent.

**LOCATION 68 - AC FAIL / AC FAIL RESTORE COMMUNICATOR CODES, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 68 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if "AC Fail Reporting" is enabled. Segment 1 contains the tens digit of the "AC Fail Reporting". Segment 2 contains the ones digit of the "AC Fail Reporting". Segment 3 contains the tens digit of the "AC Fail Restore". Segment 4 contains the ones digit of the "AC Fail Restore".

For a 3+1 format, only the segment 1 resp. segment 3 digit (tens) will be sent.

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**LOCATION 69 - LOW BATTERY / LOW BATTERY RESTORE COMMUNICATOR CODES, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 69 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if "Low Battery Reporting" is enabled. Segment 1 contains the tens digit of the "Low Battery Reporting". Segment 2 contains the ones digit of the "Low Battery Reporting". Segment 3 contains the tens digit of the "Low Battery Restore". Segment 4 contains the ones digit of the "Low Battery Restore".

For a 3+1 format, only the segment 1 digit resp. segment 3 digit (tens) will be sent.

**LOCATION 70 - AUX POWER OVERCURRENT/ AUX POWER OVERCURRENT RESTORE COMMUNICATOR CODES, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 70 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if "Aux Power Overcurrent Reporting" is enabled. Segment 1 contains the tens digit of the "Aux Power Overcurrent Reporting". Segment 2 contains the ones digit of the "Aux Power Overcurrent Reporting". Segment 3 contains the tens digit of the "Aux Power Overcurrent Restore". Segment 4 contains the ones digit of the "Aux Power Overcurrent Restore".

For a 3+1 format, only the segment 1 resp. segment 3 digit (tens) will be sent.

**LOCATION 71 - BELL TAMPER AND BELL TAMPER RESTORE COMMUNICATOR CODES, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 71 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if siren supervision reporting is enabled. Segment 1 contains the tens digit of the "Bell Tamper Reporting". Segment 2 contains the ones digit of the "Bell Tamper Reporting". Segment 3 contains the tens digit of the "Bell Tamper Restore". Segment 4 contains the ones digit of the "Bell Tamper Restore".

For a 3+1 format, only the segment 1 resp. segment 3 digit (tens) will be sent.

**LOCATION 72-73 - Reserved****LOCATION 74 - EXPANDER TROUBLE AND EXPANDER TROUBLE RESTORE COMMUNICATOR CODES, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 74 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if "Expander Trouble Reporting" is enabled. Segment 1 contains the tens digit of the "Expander Trouble Reporting". Segment 2 contains the ones digit of the "Expander Trouble Reporting". Segment 3 contains the tens digit of the "Expander Trouble Restore". Segment 4 contains the ones digit of the "Expander Trouble Restore". For a 3+1 format, only the segment 1 digit resp. segment 3 digit (tens) will be sent.

**LOCATION 75 - FAIL TO COMMUNICATE COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 75 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if the "Fail To Communicate Reporting" is enabled. Segment 1 contains the tens digit, and segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

#### **LOCATION 76 - LOG FULL COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 76 contains the tens and ones digits for a 4+2 and 3+1 format if the "Log Full Reporting" is enabled. Segment 1 contains the tens digit, and segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

#### **LOCATION 77 - OPENING COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (8 segments, numerical data)**

Location 77 contains the tens digit for a 4+2 and 3+1 format if "Opening Reporting" is enabled. For a 4+2 format, the digit programmed in this section will be sent as the tens digit of the alarm event code. As ones digit, the user number will be reported (e.g. code 1 = 1, code 8 = 8).

If you need to report openings and closings with a unique code per user, Contact ID or SIA format must be used.

**Segment 1** Codes 1-8, "Opening Code"  
**Segment 2-8** Reserved

#### **LOCATION 78 - CLOSING COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (8 segments, numerical data)**

Location 78 contains the tens digit for a 4+2 and 3+1 format if "Closing Reporting" is enabled. For a 4+2 format, the digit programmed in this section will be sent as the tens digit of the alarm event code. As ones digit, the user number will be reported (e.g. code 1 = 1, code 8 = 8).

If you need to report openings and closings with a unique code per user, Contact ID or SIA format must be used.

**Segment 1** Codes 1-15, "Closing Code"  
**Segment 2-8** Reserved

#### **LOCATION 79 - AUTOTEST COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 79 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if "Autotest" or "Manual Test" is enabled. Segment 1 contains the tens digit, and segment 2 contains the ones digit.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

**LOCATION 80 - RECENT CLOSING AND EXIT ERROR COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (2 segments, numerical data)**

Location 80 contains the tens digit for a 4+2 and 3+1 format that will be sent if “Recent Closing” and/or “Exit Error Reporting” are enabled. Segment 1 contains the tens digit for the “Recent Closing Reporting”. Segment 2 contains the digit for the “Exit Error Reporting”. As ones digit, the user number (1-8) of the user who closed, will be sent.

If you need to report recent closings and exit errors with a unique code per user, Contact ID or SIA format must be used.

**LOCATION 81 - START PROGRAM AND END PROGRAM COMMUNICATOR CODES, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 81 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if “Start / End Programming Reporting” is enabled. Segment 1 contains the tens digit of the “Start Program Reporting”. Segment 2 contains the ones digit of the “Start Program Reporting”. Segment 3 contains the tens digit of the “End Program Reporting”. Segment 4 contains the ones digit of the “End Program Reporting”.

For a 3+1 format, only the segment 1 digit resp. segment 3 digit (tens) will be sent.

**LOCATION 82 - END DOWNLOAD COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (4 segments, numerical data)**

Location 82 contains the tens and ones digits for a 4+2 and 3+1 format that will be sent if “End Downloading Reporting” is enabled. Segment 1 and 2 are reserved. Segment 3 contains the tens digit of the “End Download Reporting”. Segment 4 contains the ones digit of the “End Download Reporting”. Note: A start download report will be sent to the internal event log.

For a 3+1 format, only the segment 1 digit (tens) will be sent.

**LOCATION 83 - CANCEL COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY (1 segments, numerical data)**

Location 83 contains the tens digit for a 4+2 and 3+1 format that will be sent if “Cancel Reporting” is enabled. Segment 1 contains the tens digit for the “Cancel Communicator Reporting”. As ones digit, the user number (1-8) of the user who cancelled, will be sent.

If you need to report cancels with a unique code per user, Contact ID or SIA format must be used.

**LOCATIONS 84-109 - RESERVED**

## Programming zone configuration groups

LOCATIONS 110-169 ARE USED TO CHANGE THE ZONE CONFIGURATIONS AS LISTED IN THE TABLE ON PAGES 44-46. THESE LOCATIONS ARE CONSIDERED AS ADVANCED PROGRAMMING, AND THEY SHOULD ONLY BE CHANGED IF YOU HAVE A THOROUGH UNDERSTANDING OF THE OPERATION OF EACH BIT.

### LOCATION 110 - CONFIGURATION GROUP 1 ALARM EVENT CODE (1 segment, numerical data)

Location 110 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

### LOCATION 111 - CONFIGURATION GROUP 1 CHARACTERISTIC SELECT (5 segments, feature selection data)

- |                  |   |
|------------------|---|
| <b>Segment 1</b> | <ul style="list-style-type: none"> <li>1 = <b>Fire</b> (turn on if this is a fire zone)</li> <li>2 = <b>24 hour</b> (turn on for non-fire 24 hour zones)</li> <li>3 = <b>Keyswitch</b> zone (normally open switch)</li> <li>4 = <b>Follower</b> (turn on for burglary zones that are Instant during non-entry times)</li> <li>5 = <b>Delay 1</b> zone (follows timer 1 Entry and Exit times)</li> <li>6 = <b>Delay 2</b> zone (follows timer 2 Entry and Exit times)</li> <li>7 = <b>Interior</b> (turn on if this zone should Automatically Bypass or Bypass for Stay Arming)</li> <li>8 = <b>Local only</b> (turn on if this zone should not be reported)<br/><b>Remark: for a maintained keyswitch (ON/OFF), program both "keyswitch" and "local"</b></li> </ul> |
| <b>Segment 2</b> | <ul style="list-style-type: none"> <li>1 = On: if configuration group will <b>beep the keypad</b> for alarm</li> <li>2 = On: if configuration group will sound the <b>yelping siren</b> for alarm</li> <li>3 = On: if configuration group will sound the <b>steady siren</b> for alarm</li> <li>4 = On: if configuration group will <b>chime</b></li> <li>5 = On: if configuration group can be <b>bypassed</b></li> <li>6 = On: if configuration group is included in the <b>group shunt</b></li> <li>7 = On: if configuration group is <b>force armable</b></li> <li>8 = On: if configuration group is <b>entry guard</b></li> </ul>  |
| <b>Segment 3</b> | <ul style="list-style-type: none"> <li>1 = On: enables <b>Fast Loop</b> Response. (50mS) - Off= 500mS</li> <li>2 = On: enables Double <b>End Of Line Tamper</b> zone. (Mainly used for tamper on wireless zones)</li> <li>3 = On: enables <b>Trouble Reporting</b> zone. (Day zone and Fire zones)</li> <li>4 = On: if configuration group is a <b>Cross Zone</b></li> <li>5 = On: enables <b>Dialler Delay</b> zone. (See location 40)</li> <li>6 = On: if configuration group will use <b>swinger shutdown</b>. (See location 38)</li> <li>7 = On: enables <b>Restore reporting</b></li> <li>8 = On: enables <b>Listen-In</b>. (See location 40)</li> </ul>   |

- Segment 4**
- 1 = On: enables zone activity monitor
  - 2 = On: enables end of line resistor defeat on non-fire/non-keyswitch zones
  - 3 = On : enables zone to act as request to exit input / disables for alarm activation
  - 4 = On : enables zone to act as access entry point (Door Shunt) (\*)
  - 5 = Reserved
  - 6 = Reserved
  - 7 = Reserved
  - 8 = Reserved
- Segment 5** 1-8 Reserved

\*Note :

Refer to NX-1701E card reader installer manual. Do not enable this segment unless configured with Door Control.

#### **LOCATION 112 - CONFIGURATION GROUP 2 ALARM EVENT CODE (1 segment, numerical data)**

Location 112 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

#### **LOCATION 113 - CONFIGURATION GROUP 2 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

#### **LOCATION 114 - CONFIGURATION GROUP 3 ALARM EVENT CODE (1 segment, numerical data)**

Location 114 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

#### **LOCATION 115 - CONFIGURATION GROUP 3 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

#### **LOCATION 116 - CONFIGURATION GROUP 4 ALARM EVENT CODE (1 segment, numerical data)**

Location 116 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm. This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 117 - CONFIGURATION GROUP 4 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 118 - CONFIGURATION GROUP 5 ALARM EVENT CODE (1 segment, numerical data)**

Location 118 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 119 - CONFIGURATION GROUP 5 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 120 - CONFIGURATION GROUP 6 ALARM EVENT CODE (1 segment, numerical data)**

Location 120 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 121 - CONFIGURATION GROUP 6 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 122 - CONFIGURATION GROUP 7 ALARM EVENT CODE (1 segment, numerical data)**

Location 122 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 123 - CONFIGURATION GROUP 7 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 124 - CONFIGURATION GROUP 8 ALARM EVENT CODE (1 segment, numerical data)**

Location 124 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 125 - CONFIGURATION GROUP 8 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 126 - CONFIGURATION GROUP 9 ALARM EVENT CODE (1 segment, numerical data)**

Location 126 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 127 - CONFIGURATION GROUP 9 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 128 - CONFIGURATION GROUP 10 ALARM EVENT CODE (1 segment, numerical data)**

Location 128 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 129 - CONFIGURATION GROUP 10 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 130 - CONFIGURATION GROUP 11 ALARM EVENT CODE (1 segment, numerical data)**

Location 130 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 131 - CONFIGURATION GROUP 11 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 132 - CONFIGURATION GROUP 12 ALARM EVENT CODE (1 segment, numerical data)**

Location 132 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 133 - CONFIGURATION GROUP 12 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 134 - CONFIGURATION GROUP 13 ALARM EVENT CODE (1 segment, numerical data)**

Location 134 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 135 - CONFIGURATION GROUP 13 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 136 - CONFIGURATION GROUP 14 ALARM EVENT CODE (1 segment, numerical data)**

Location 136 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 137 - CONFIGURATION GROUP 14 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 138 - CONFIGURATION GROUP 15 ALARM EVENT CODE (1 segment, numerical data)**

Location 138 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 139 - CONFIGURATION GROUP 15 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 140 - CONFIGURATION GROUP 16 ALARM EVENT CODE (1 segment, numerical data)**

Location 140 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 141 - CONFIGURATION GROUP 16 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 142 - CONFIGURATION GROUP 17 ALARM EVENT CODE (1 segment, numerical data)**

Location 142 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 143 - CONFIGURATION GROUP 17 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 144 - CONFIGURATION GROUP 18 ALARM EVENT CODE (1 segment, numerical data)**

Location 144 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 145 - CONFIGURATION GROUP 18 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 146 - CONFIGURATION GROUP 19 ALARM EVENT CODE (1 segment, numerical data)**

Location 146 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 147 - CONFIGURATION GROUP 19 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 148 - CONFIGURATION GROUP 20 ALARM EVENT CODE (1 segment, numerical data)**

Location 148 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 149 - CONFIGURATION GROUP 20 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 150 - CONFIGURATION GROUP 21 ALARM EVENT CODE (1 segment, numerical data)**

Location 150 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 151 - CONFIGURATION GROUP 21 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

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**LOCATION 152 - CONFIGURATION GROUP 22 ALARM EVENT CODE (1 segment, numerical data)**

Location 152 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 153 - CONFIGURATION GROUP 22 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 154 - CONFIGURATION GROUP 23 ALARM EVENT CODE (1 segment, numerical data)**

Location 154 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 155 - CONFIGURATION GROUP 23 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 156 - CONFIGURATION GROUP 24 ALARM EVENT CODE (1 segment, numerical data)**

Location 156 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 157 - CONFIGURATION GROUP 24 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 158 - CONFIGURATION GROUP 25 ALARM EVENT CODE (1 segment, numerical data)**

Location 158 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 159 - CONFIGURATION GROUP 25 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 160 - CONFIGURATION GROUP 26 ALARM EVENT CODE (1 segment, numerical data)**

Location 160 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 161 - CONFIGURATION GROUP 26 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 162 - CONFIGURATION GROUP 27 ALARM EVENT CODE (1 segment, numerical data)**

Location 162 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 163 - CONFIGURATION GROUP 27 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 164 - CONFIGURATION GROUP 28 ALARM EVENT CODE (1 segment, numerical data)**

Location 164 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 165 - CONFIGURATION GROUP 28 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

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**LOCATION 166 - CONFIGURATION GROUP 29 ALARM EVENT CODE (1 segment, numerical data)**

Location 166 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 167 - CONFIGURATION GROUP 29 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATION 168 - CONFIGURATION GROUP 30 ALARM EVENT CODE (1 segment, numerical data)**

Location 168 contains the event code that is sent for a Contact ID or SIA report. The desired event code should be chosen from the list on pages 88-89. The zone ID will be the zone that is in alarm.

This location is not used for slow speed formats (like 4+2 and 3+1). This location may also contain the alarm report code for the Robofon format (value 00-99).

**LOCATION 169 - CONFIGURATION GROUP 30 CHARACTERISTIC SELECT (5 segments, feature selection data)**

Use the "Configuration Group Characteristic Selections" described in Location 111.

**LOCATIONS 170-205 - RESERVED****LOCATION 206 - AUTO DISARM DAY SELECTOR (1 segment, feature selection data)**

Location 206 selects which days the system will auto disarm.

- |                  |                                 |
|------------------|---------------------------------|
| <b>Segment 1</b> | 1 = Auto disarming on Sunday    |
|                  | 2 = Auto disarming on Monday    |
|                  | 3 = Auto disarming on Tuesday   |
|                  | 4 = Auto disarming on Wednesday |
|                  | 5 = Auto disarming on Thursday  |
|                  | 6 = Auto disarming on Friday    |
|                  | 7 = Auto disarming on Saturday  |
|                  | 8 = Reserved                    |

**LOCATIONS 207-211 - RESERVED**

**LOCATION 212 – PROGRAMMING THE LCD KEYPAD ADDRESS (1 segment, numerical data)**

When using the XSIA dialler format, the system requires at least 1 LCD keypad. The panel will get the zone descriptions from the first language from that LCD keypad which has the address defined in location 212. If your system has an LCD keypad it is recommended that it will be placed in location 1 keypad 1. This will allow location 212 to be left at the factory default. If the LCD keypad is selected as something other than partition 1 / keypad 1, program the appropriate address in location 212. Select the address from the location chart.

<b>Keypad</b>	<b>Part 1</b>
1	192
2	200
3	208
4	216
5	224
6	232
7	240
8	248

# NX-4 PROGRAMMING WORKSHEETS

(Factory defaults for NX-4-ZA-TK are in ***bold italic*** text)

LOC	PG	DESCRIPTION	DEFAULT	PROGRAMMING DATA	
0	34	PHONE 1	<b><i>14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14</i></b>		
1	34	PHONE 1, ACCOUNT CODE	<b><i>10 - 10 - 10 - 10 - 10 - 10</i></b>		
2	34	PHONE 1, REPORTING FORMAT	<b><i>0</i></b>		
3	34	PHONE 1, DIAL ATTEMPTS BACKUP CONTROL	<b><i>8</i></b> <b><i>2</i></b>		
4	36	PHONE 1, SELECTING EVENTS TO REPORT TO PHONE 1			
		<b>Segment 1</b> (Circle Numbers To Program)		<b>Segment 2</b> (Circle Numbers To Program)	
		1	<b><i>Alarms</i></b>	1	<b><i>Tampers (zones and box)</i></b>
		2	<b><i>Open/Close</i></b>	2	<b><i>Short Circuit</i></b>
		3	<b><i>Bypass</i></b>	3	<b><i>Sensor Lost</i></b>
		4	<b><i>Zone Trouble</i></b>	4	<b><i>Sensor Low Battery</i></b>
		5	<b><i>Power Trouble (AC Failure or Low Batt.)</i></b>	5	<b><i>Expander Trouble (incl. keypad)</i></b>
		6	<b><i>Siren &amp; Telephone Fault</i></b>	6	<b><i>Failure To Communicate</i></b>
		7	<b><i>Test Reports</i></b>	7	<b><i>Alarm Restore</i></b>
		8	<b><i>Program, Download, &amp; Log Full</i></b>	8	<b><i>Tamper Restore</i></b>
5	37	RESERVED			
6	37	PHONE 2	<b><i>14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14</i></b>		
7	37	PHONE 2, ACCOUNT CODE	<b><i>10 - 10 - 10 - 10 - 10 - 10</i></b>		
8	37	PHONE 2, REPORTING FORMAT	<b><i>0</i></b>		
9	37	PHONE 2, DIAL ATTEMPTS BACKUP CONTROL	<b><i>8</i></b> <b><i>0</i></b>		
10	38	PHONE 2, SELECTING EVENTS TO REPORT TO PHONE 2			
		<b>Segment 1</b> (Circle Numbers To Program)		<b>Segment 2</b> (Circle Numbers To Program)	
		1	<b><i>Alarms</i></b>	1	<b><i>Tampers (zones and box)</i></b>
		2	<b><i>Open/Close</i></b>	2	<b><i>Short Circuit</i></b>
		3	<b><i>Bypass</i></b>	3	<b><i>Sensor Lost</i></b>
		4	<b><i>Zone Trouble</i></b>	4	<b><i>Sensor Low Battery</i></b>
		5	<b><i>Power Trouble (AC Failure or Low Batt.)</i></b>	5	<b><i>Expander Trouble (incl. keypad)</i></b>
		6	<b><i>Siren &amp; Telephone Fault</i></b>	6	<b><i>Failure To Communicate</i></b>
		7	<b><i>Test Reports</i></b>	7	<b><i>Alarm Restore</i></b>
		8	<b><i>Program, Download, &amp; Log Full</i></b>	8	<b><i>Tamper Restore</i></b>
11	38	RESERVED			



23	43	PARTITION 1, FEATURE SELECTION					
		<b>Segment 1</b>		<b>Segment 2</b>		<b>Segment 3</b>	
		1	<b>Quick Arm</b>	1	LED extinguish enable	1	Open/Close
		2	Re-Exit	2	Require user code for bypassing zones	2	Bypass
		3	Auto Bypass (interior)	3	Bypass sounder alert	3	<b>Restore</b>
		4	Silent Panic	4	<b>AC power/ low battery sounder alert</b>	4	<b>Trouble</b>
		5	<b>Audible Panic</b>	5	Enables bypass toggle	5	<b>Tamper</b>
		6	<b>Auxiliary 1</b>	6	Enables silent auto arm	6	<b>Cancel</b>
		7	<b>Auxiliary 2</b>	7	Enables automatic instant (entry/exit)	7	<b>Recent Closing</b>
		8	Multi Keypress Tamper	8	Final set door	8	<b>Exit Error</b>
		<b>Segment 4</b>			<b>Segment 5</b>		
		1	Late to close/early to open	1	Disables auto bypassing of force armable zones		
		2	Auto arm in stay mode	2	Reserved		
		3	Enables instant night	3	Reserved		
		4	Tamper when sensor lost if armed	4	Reserved		
		5	Enables instant stay toggle	5	Reserved		
		6	<b>Arming with tamper mem./ comm. failure</b>	6	Reserved		
		7	<b>Arming with battery trouble</b>	7	Reserved		
		8	Keyswitch zone arms in stay mode	8	Reserved		
		24	44	ENTRY/EXIT TIMERS			
<b>Segment 1</b> (Entry Time 1)				<b>20</b>			
<b>Segment 2</b> (Exit Time 1)				<b>45</b>			
<b>Segment 3</b> (Entry Time 2)				<b>20</b>			
<b>Segment 4</b> (Exit Time 2)				<b>45</b>			
<b>Reserved</b>				<b>0</b>			
<b>Reserved</b>				<b>0</b>			
25	48	ZONES 1-8, CONFIGURATION GROUPS			<b>3-5-6-6-6-6-6</b>		
26-36	48	Reserved					

37	48	SIREN AND SYSTEM SUPERVISION	
		<b>Segment 1</b> (Circle Numbers To Program)	
		1	<b>Siren sounds for telephone line cut while armed</b>
		2	Siren sounds for telephone line cut while disarmed
		3	Siren blast at arming (pulse)
		4	Siren blast at exit delay expiration (pulse)
		5	Siren blast at closing kiss-off (pulse)
		6	Siren sounds during a cross zone verification time
		7	<b>Siren sounds for a tamper</b>
		8	Siren blast once for keyswitch arming, twice for disarming
		<b>Segment 2</b> (Circle Numbers To Program)	
		1	<b>Convert siren driver to voltage out</b>
		2	<b>Siren sounds for expander trouble</b>
		3	<b>Zones to always restore</b>
		4	Dynamic battery test performed upon arming
		5	<b>Battery missing test performed every 12 seconds</b>
		6	<b>Manual bell test performed during [*]-[4]-[4] test function</b>
		7	Manual communicator test performed during [*]-[4]-[4] test function
		8	Box tamper enabled
		<b>Segment 3</b> (Circle Numbers To Program)	
		1	<b>Box Tamper report enabled</b>
		2	<b>AC Fail report enabled</b>
		3	<b>Low Battery report enabled</b>
		4	<b>Auxiliary power overcurrent report enabled</b>
		5	<b>Siren supervision report enabled</b>
		6	Restore Telephone Line Cut report enabled
		7	A+B alarm
		8	<b>Expander trouble report enabled</b>
		<b>Segment 4</b> (Circle Numbers To Program)	
		1	<b>Failure To Communicate report enabled</b>
		2	Log Full report enabled
		3	<b>Autotest report enabled</b>
		4	<b>Start and End Programming report enabled</b>
		5	<b>End Download report enabled</b>
		6	<b>Sensor Low Battery report enabled</b>
		7	<b>Sensor Missing report enabled</b>
		8	Autotest report enabled ONLY when system is armed
		<b>Segment 5</b> (Circle Numbers To Program)	
		1	<b>Lost Clock service LED enable</b>
		2	Enable zone doubling
		3	Disable on-board zones
		4	Enable two trips on the same cross-zone to activate the alarm
		5	Disable bypass reports for force armed zones
		6	Silent exit
		7	Reserved
		8	Automatic switch summer/wintertime and vice versa
		<b>Segment 6</b> (Circle Numbers To Program)	
		1	Reserved
2	Use internal crystal for clock		
3	<b>Enable zone activity in hours (not in days)</b>		
4	Enable first alarm logic		
5	Enable log protection		
6	Siren output is steady in case of fire alarm		
7	Reserved		
8	<b>User code will reset tamper memory</b>		

37	48	<b>Segment 7</b> (Circle Numbers To Program)		
		1-8	Reserved	
38	49	SWINGER COUNTDOWN COUNT		0
39	49	KEYPAD SOUNDER CONTROL		
		<b>Segment 1</b> (Circle Numbers To Program)		
		1	<b>Keypad sounds for Telephone Line Cut when in the Armed state</b>	
		2	Keypad sounds for Telephone Line Cut when in the Disarmed state	
		3	Keypad sounds upon AC Power Failure	
		4	Keypad sounds upon Low Battery Detection	
		5	Keypad sounds during Cross Zone Trip Time	
		6	<b>Keypad sounds for Tamper Alarm</b>	
		7	<b>Keypad sounds for Emergency keys</b>	
8	<b>Keypad sounds for Expander Trouble</b>			
40	50	SYSTEM TIMERS		
		<b>Segment 1</b>	Dynamic Battery Test duration (0-255 minutes)	0
		<b>Segment 2</b>	AC Failure report delay (0-255 minutes)	20
		<b>Segment 3</b>	Power Up Delay (0-60 seconds)	10
		<b>Segment 4</b>	Siren Time (1-255 minutes)	3
		<b>Segment 5</b>	Telephone Line Cut delay (0-255 seconds)	0
		<b>Segment 6</b>	Cross Zone Time (0-255 minutes)	1
		<b>Segment 7</b>	Chime Time in 50 mS increments (0-255)	3
		<b>Segment 8</b>	Dialer delay (0-255 seconds)	0
		<b>Segment 9</b>	Fire Alarm Verification Time (120-255 seconds)	0
		<b>Segment 10</b>	Listen-In Time (0-255 seconds)	0
		<b>Segment 11</b>	Zone monitor timer hours/days (0-255)	0
		<b>Segment 12</b>	Auto arming warning timer (1-255 minutes)	1
		<b>Segment 13</b>	Auto arming retry timer (1-255 minutes)	45
<b>Segment 14</b>	Reserved	0		
41	50	USER CODE REQUIREMENTS		
		<b>Segment 1</b> (Circle Numbers To Program)		
		1	Enables six digit code option. All arm/disarm/Go to program codes require six digits	
		2	Requires valid user code entry so that [*]-[9]-[8] and [*]-[9]-[9] functions can work	
		3	Enables Auto Cancel / Abort	
		4	Reserved	
		5	On: keypad shutdown mode	
		6	On: user authorization to enter program mode	
		7	Reserved	
8	Reserved			

42	50	GO TO PROGRAM CODE	9-7-1-3-0-0		
43	51	GO TO PROGRAM CODE PARTITION AND AUTHORIZATION			
		<b>Segment 1</b> (Circle Numbers To Program)			
		1	Reserved		
		2	Enables "Go To Program Code" as an arm only code		
		3	Enables "Go To Program Code" as an arm only code after closing		
		4	Enables "Go To Program Code" as a master arm/disarm code (can change user codes)		
		5	Enables "Go To Program Code" as an arm/disarm code		
		6	Enables "Go To Program Code" to bypass zones		
		7	Enables "Go To Program Code" opening and closing reports		
8	Reserved				

44	51	DURESS CODE	15-15-15-15-15	
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45	52	RESERVED			
46	52	AUXILIARY OUTPUTS 1-2 SPECIAL TIMING			
		Segments		1	2
		Auxiliary output timed in minutes		1	1
		Auxiliary output to latch		2	2
		<b>Auxiliary output to stop timing when user code is entered</b>		<b>3</b>	<b>3</b>
		Auxiliary output to activate only between closing and opening time		4	4
		Auxiliary output to activate only between opening and closing time		5	5
		Invert auxiliary output (0 volts going to 12 volts when activated)		6	6
		Reserved		7	7
		Reserved		8	8
47	52	AUXILIARY OUTPUT 1, EVENT & TIME (open collector 1)			
		<b>Segment 1</b>	Program the event number for output 1	<b>2=24 Hour Alarm</b>	
		<b>Segment 2</b>	Program the timing for output 1	<b>5 = 5 sec.</b>	
48	52	AUXILIARY OUTPUT 2, EVENT & TIME (relays 2 and open collector 2)			
		<b>Segment 1</b>	Program the event number for output 2	<b>0=Burglary Alarm</b>	
		<b>Segment 2</b>	Program the timing for output 1	<b>5 = 5 sec.</b>	
49-50	52	RESERVED			

51	54	AUTOTEST CONTROL			
		<b>Segment 1</b>	Program a "1" if the interval is hours, or a "0" for days. Add a "2" to suppress the daily test or a "3" to suppress the hourly test	<b>0</b>	
		<b>Segment 2</b>	Program the autotest interval from 1-255 days or hours	<b>1</b>	
		<b>Segment 3</b>	Program the autotest report in 24 hour time format	<b>24 (hours)</b>	
		<b>Segment 4</b>	Program the autotest report time, minutes after the hour	<b>0</b>	

52	54	OPENING TIME / AUTO DISARM TIME			
		<b>Segment 1</b>	Program the hour of the opening time	<b>8</b>	
		<b>Segment 2</b>	Program the minutes after the hour of the opening time	<b>0</b>	
53	54	CLOSING TIME / AUTO ARMING TIME			
		<b>Segment 1</b>	Program the hour of the closing time / auto arming time	<b>20</b>	
		<b>Segment 2</b>	Program the minutes after hour of closing / auto arming time	<b>0</b>	

54	55	DAYS OF THE WEEK WHEN "ARM ONLY AFTER CLOSE" WILL BE ABLE TO ARM/DISARM			
		1	<i>Sunday</i>		
		2	<i>Monday</i>		
		3	<i>Tuesday</i>		
		4	<i>Wednesday</i>		
		5	<i>Thursday</i>		
		6	<i>Friday</i>		
		7	<i>Saturday</i>		
	8	<i>Reserved</i>			
55	55	DAYS OF THE WEEK WHEN "AUTO ARMING" WILL OCCUR			
		1	Sunday		
		2	Monday		
		3	Tuesday		
		4	Wednesday		
		5	Thursday		
		6	Friday		
		7	Saturday		
	8	Disable retry			
56	56	ALARM AND RESTORE COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY			
		<b>Segment 1</b>	Zone 1-8 Alarm code	0	
		<b>Segment 2-4</b>	Reserved	0	
		<b>Segment 5</b>	Zone 1-8 Restore code	0	
		<b>Segment 6-8</b>	Reserved	0	
57	56	BYPASS COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY			
		<b>Segment 1</b>	Zone 1-8 Bypass code	0	
		<b>Segment 2-8</b>	Reserved	0	
58	56	TAMPER COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY			
		<b>Segment 1</b>	Zone 1-8 Tamper Code	0	
		<b>Segment 2-8</b>	Reserved	0	
59	57	TROUBLE COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY			
		<b>Segment 1</b>	Zone 1-8 Trouble Code	0	
		<b>Segment 2-8</b>	Reserved	0	
60	57	SENSOR LOW BATTERY COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY			
		<b>Segment 1</b>	Zone 1-8 Sensor Low Battery Code	0	
		<b>Segment 2-8</b>	Reserved	0	
61	57	SENSOR MISSING COMMUNICATOR CODE, SLOW SPEED FORMATS ONLY			
		<b>Segment 1</b>	Zone 1-8 Sensor Missing Code	0	
		<b>Segment 2-8</b>	Reserved	0	
COMMUNICATOR CODES FOR SLOW SPEED FORMATS ONLY					
62	57	DURESS		0-0	
63	57	AUXILIARY 1 (fire)		0-0	
64	58	AUXILIARY 2 (medical alarm)		0-0	
65	58	KEYPAD PANIC		0-0	
66	58	KEYPAD MULTIPLE CODE ENTRY TAMPER		0-0	
67	58	BOX TAMPER / BOX TAMPER RESTORE		0-0-0-0	
68	58	AC FAIL / AC RESTORE		0-0-0-0	
69	59	LOW BATTERY / LOW BATTERY RESTORE		0-0-0-0	
70	59	POWER SHORT / POWER SHORT RESTORE		0-0-0-0	
71	59	BELL TAMPER / BELL TAMPER RESTORE		0-0-0-0	
72	59	Reserved		0-0-0-0	
73	59	Reserved		0-0	
74	59	EXPANDER TROUBLE / EXPANDER TROUBLE RESTORE		0-0-0-0	
75	59	FAILURE TO COMMUNICATE		0-0	
76	60	LOG FULL COMMUNICATOR CODE		0-0	

77	60	OPENING CODE COMMUNICATOR CODE		
		<b>Segment 1</b>	Opening Code for Codes 1-8	0
		<b>Segment 2-8</b>	Reserved	0
78	60	CLOSING CODE COMMUNICATOR CODE		
		<b>Segment 1</b>	Closing Code for Codes 1-8	0
		<b>Segment 2-8</b>	Reserved	0

79	60	AUTOTEST COMMUNICATOR CODE	0-0
80	61	RECENT CLOSING AND EXIT ERROR	0-0
81	61	START PROGRAMMING / END PROGRAMMING	0-0-0-0
82	61	RESERVED / END DOWNLOAD	0-0-0-0
83	61	CANCEL COMMUNICATOR CODE	0
84-109	61	RESERVED	

110	62	CONFIGURATION GROUP 1 ALARM CODE	4		
111	62	CONFIGURATION GROUP 1 CHARACTERISTIC SELECT			
		<b>Segment 1</b> (Circle Numbers To Program)			
		1	Fire (enable for fire zone)	5	Delay 1 zone (enable to follow Timer 1 Entry/Exit times)
		2	24 Hour (enable for non-fire 24 hour zone)	6	Delay 2 zone (enable to follow Timer 1 Entry / Exit times)
		3	Keyswitch zone	7	Interior (Enable for auto bypass or stay arming)
		4	Follower (enable for burglary zones that are instant during non-entry times)	8	Local Only (enable if zone is not to be reported)
		<b>Segment 2</b> (Circle Numbers To Program)			
		1	<b>Keypad audible on alarm</b>	5	<b>Bypassable</b>
		2	<b>Yelping siren on alarm</b>	6	Group Shunt
		3	Steady siren on alarm	7	Force armable
		4	Chime	8	Entry Guard
		<b>Segment 3</b> (Circle Numbers To Program)			
		1	Fast Loop Response	5	<b>Dialer Delay zone</b>
		2	Double End of Line Tamper zone	6	<b>Swinger zone</b>
		3	<b>Trouble zone (Fire and Day zone)</b>	7	<b>Restore reporting</b>
		4	Cross Zone	8	<b>Listen-In</b>
		<b>Segment 4</b> (Circle Numbers To Program)			
		1	Zone activity monitor	5	Reserved
		2	End of line resistor defeat	6	Reserved
		3	Zone acts as request to exit input	7	Reserved
		4	Zone acts as acces control zone	8	Reserved
		<b>Segment 5</b> (Circle Numbers To Program)			
		1-8	Reserved		

THE DEFAULTS LISTED IN THE ODD-NUMBERED LOCATIONS BELOW REPRESENT THE FIVE SEGMENTS OF EACH OF THOSE LOCATIONS. USE THE FIVE SEGMENT CHARTS FROM LOCATION 111 TO UNDERSTAND THESE DEFAULTS.

112	63	CONFIGURATION GROUP 2 ALARM EVENT CODE	2
113	63	CONFIGURATION GROUP 2 CHARACTERISTIC SELECT	2-125-78-0-0
114	63	CONFIGURATION GROUP 3 ALARM EVENT CODE	7
115	63	CONFIGURATION GROUP 3 CHARACTERISTIC SELECT	5-1245-5678-0-0
116	63	CONFIGURATION GROUP 4 ALARM EVENT CODE	5
117	64	CONFIGURATION GROUP 4 CHARACTERISTIC SELECT	45-125-5678-0-0
118	64	CONFIGURATION GROUP 5 ALARM EVENT CODE	5
119	64	CONFIGURATION GROUP 5 CHARACTERISTIC SELECT	457-125-5678-0-0
120	64	CONFIGURATION GROUP 6 ALARM EVENT CODE	4
121	64	CONFIGURATION GROUP 6 CHARACTERISTIC SELECT	0-1245-5678-0-0
122	64	CONFIGURATION GROUP 7 ALARM EVENT CODE	0
123	64	CONFIGURATION GROUP 7 CHARACTERISTIC SELECT	2-0-78-0-0



124	65	CONFIGURATION GROUP 8 ALARM EVENT CODE	1	
125	65	CONFIGURATION GROUP 8 CHARACTERISTIC SELECT	1-13-378-0-0	
126	65	CONFIGURATION GROUP 9 ALARM EVENT CODE	7	
127	65	CONFIGURATION GROUP 9 CHARACTERISTIC SELECT	6-1245-5678-0-0	
128	65	CONFIGURATION GROUP 10 ALARM EVENT CODE	7	
129	65	CONFIGURATION GROUP 10 CHARACTERISTIC SELECT	6-1245-25678-0-0	
130	65	CONFIGURATION GROUP 11 ALARM EVENT CODE	3	
131	66	CONFIGURATION GROUP 11 CHARACTERISTIC SELECT	3-0-0-0-0	
132	66	CONFIGURATION GROUP 12 ALARM EVENT CODE	14	
133	66	CONFIGURATION GROUP 12 CHARACTERISTIC SELECT	248-5-0-0-0	
134	66	CONFIGURATION GROUP 13 ALARM EVENT CODE	7	
135	66	CONFIGURATION GROUP 13 CHARACTERISTIC SELECT	5-1245-25678-0-0	
136	66	CONFIGURATION GROUP 14 ALARM EVENT CODE	5	
137	66	CONFIGURATION GROUP 14 CHARACTERISTIC SELECT	45-125-25678-0-0	
138	67	CONFIGURATION GROUP 15 ALARM EVENT CODE	5	
139	67	CONFIGURATION GROUP 15 CHARACTERISTIC SELECT	457-125-25678-0-0	
140	67	CONFIGURATION GROUP 16 ALARM EVENT CODE	4	
141	67	CONFIGURATION GROUP 16 CHARACTERISTIC SELECT	0-1245-25678-0-0	
142	67	CONFIGURATION GROUP 17 ALARM EVENT CODE	7	
143	67	CONFIGURATION GROUP 17 CHARACTERISTIC SELECT	5-12456-5678-0-0	
144	67	CONFIGURATION GROUP 18 ALARM EVENT CODE	5	
145	68	CONFIGURATION GROUP 18 CHARACTERISTIC SELECT	45-1256-5678-0-0	
146	68	CONFIGURATION GROUP 19 ALARM EVENT CODE	5	
147	68	CONFIGURATION GROUP 19 CHARACTERISTIC SELECT	457-1256-5678-0-0	
148	68	CONFIGURATION GROUP 20 ALARM EVENT CODE	4	
149	68	CONFIGURATION GROUP 20 CHARACTERISTIC SELECT	0-1256-5678-0-0	
150	68	CONFIGURATION GROUP 21 ALARM EVENT CODE	5	
151	68	CONFIGURATION GROUP 21 CHARACTERISTIC SELECT	45-125-45678-0-0	
152	69	CONFIGURATION GROUP 22 ALARM EVENT CODE	4	
153	69	CONFIGURATION GROUP 22 CHARACTERISTIC SELECT	0-125-45678-0-0	
154	69	CONFIGURATION GROUP 23 ALARM EVENT CODE	5	
155	69	CONFIGURATION GROUP 23 CHARACTERISTIC SELECT	45-125-245678-0-0	
156	69	CONFIGURATION GROUP 24 ALARM EVENT CODE	7	
157	69	CONFIGURATION GROUP 24 CHARACTERISTIC SELECT	0-125-245678-0-0	
158	69	CONFIGURATION GROUP 25 ALARM EVENT CODE	4	
159	69	CONFIGURATION GROUP 25 CHARACTERISTIC SELECT	0-125-5678-0-0	
160	70	CONFIGURATION GROUP 26 ALARM EVENT CODE	7	
161	70	CONFIGURATION GROUP 26 CHARACTERISTIC SELECT	5-12457-5678-0-0	
162	70	CONFIGURATION GROUP 27 ALARM EVENT CODE	5	
163	70	CONFIGURATION GROUP 27 CHARACTERISTIC SELECT	45-1257-5678-0-0	
164	70	CONFIGURATION GROUP 28 ALARM EVENT CODE	7	
165	70	CONFIGURATION GROUP 28 CHARACTERISTIC SELECT	8-1245-5678-0-0	
166	71	CONFIGURATION GROUP 29 ALARM EVENT CODE	5	
167	71	CONFIGURATION GROUP 29 CHARACTERISTIC SELECT	45-1258-5678-1-0	
168	71	CONFIGURATION GROUP 30 ALARM EVENT CODE	4	
169	71	CONFIGURATION GROUP 30 CHARACTERISTIC SELECT	0-1245-5678-1-0	
170-205	71	RESERVED	0-0-0-0-0-0-0	

206	71	DAYS OF THE WEEK WHEN "AUTO DISARMING" WILL OCCUR							
		Segment	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5	6	7	8

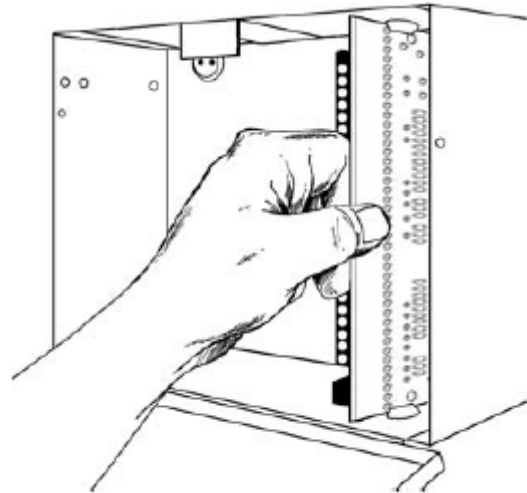
207-211	72	RESERVED		
---------	----	----------	--	--

212	72	LCD KEYPAD ADDRESS FOR XSIA ZONE DESCRIPTIONS	192	
-----	----	---	-----	--

## BOARD INSTALLATION

The metal enclosure should be installed with the door opening from the top to bottom. Refer to the diagram on the right.

Inside the can, there are four slots for board insertion, two on the top and two on the bottom of the can. These allow the PC board to be positioned vertically as shown in the diagram. When you slide the board between the grooves of the slots, make sure the terminal strip is toward the front opening (toward you) to allow for the wire connections.





## TERMINAL DESCRIPTION

TERMINAL	DESCRIPTION
R1	House Telephone Ring.
R	Telephone Ring.
T	Telephone Tip.
T1	House Telephone Tip.
AC	AC input. Connect to a 16.5V 35VA approved transformer.
EARTH	Earth Ground.
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 KEYPAD +. Current is limited to 250 mA when output is negative, and 250 $\mu$ A when output is positive.
SIREN	If used as a siren output, 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 (default), this output becomes voltage output, 12VDC, 1 Amp maximum load. <b>NOTE: A 3.3KW 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.</b>
COM	Connect the negative wire of powered devices such as motion and smoke detectors.
SMOKE+	Smoke detector power 12VDC, 250 mA maximum.
AUX 2	Connect negative lead of low current device [relay, LED (install 1K $\Omega$ resistor in series with LED), etc.]. Connect positive lead of device to KEYPAD +. Current is limited to 250 mA when output is negative, and 250 $\mu$ A when output is positive.
KP DATA	Connect to the data terminal on the keypads and the expanders. Maximum wire run is 800 m with 2 mm <sup>2</sup> wire. The minimum wire sizes at 75, 150, 300 and 600 m are 0.12, 0.33, 0.83 and 1.3 mm <sup>2</sup> respectively. These numbers are for one keypad at the end of the wire and a voltage drop of max. 2 Volts. When connecting more than one keypad to the end of the wire, a higher gauge wire will be required. The maximum number of devices are max. 8 keypads and max 1 expander.
COM AUX PWR -	Connect to the Common terminal on the keypads, expanders, and other power devices.
POS AUX PWR +	Connect to the Positive terminal on the keypads, expanders, and other power devices. This terminal is limited to 1 amp total current.
ZONE 4	Connect to one side of zone 4 loop. Connect the other side to the COM terminal. Open or short causes alarm.
COM	Common (-) terminal for zones 3 & 4.
ZONE 3	Connect to one side of zone 3 loop. Connect the other side to COM terminal. Open or short causes alarm.
ZONE 2	Connect to one side of zone 2 loop. Connect the other side to the COM terminal. Open or short causes alarm.
COM	Common (-) terminal for zones 1 & 2.
ZONE 1	Connect to one side of zone 1 loop. Connect the other side to COM terminal. Open or short causes alarm.

## TECHNICAL SPECIFICATIONS

### Technical specifications NX-4

Operating power	
- Nominal	16.5 Vac, 50/60Hz, 35VA
- Minimum/maximum	14.05 Vac - 18.15 Vac
Current consumption	Min 75 mA, Max 77 mA
Battery	max. 12V/7.2 Ah use rechargeable lead-acid battery only
Maximum recharge time	72 hours
Auxiliary Power	EN50131-6 Grade 2 Type A
- Minimal	10.50 Vdc/1.5 A
- Nominal/Maximum	13.85 Vdc/1.7 A
- Maximum ripple	5%
Operating temperature	0 - 50° C
Loop resistance	
- Standard loop	300 Ohms maximum
- 2-wire fire loop	30 Ohms maximum
Built-in siren driver	112 dB, 2 tones (steady or yelp)
Loop response	selectable: 50 ms or 500 ms
Dimensions (PCB board only)	223 x 90 mm
Weight (PCB board only)	206 g
Classifications	Security Grade 2 Environmental Class 2
Applied standards	
EMC	EN50130-4
Environmental	EN50130-5
Control and Indicating equipment	CLC/TS 50131-3

### Technical specifications NX-108, NX-116, NX-124

Operating power			
- Nominal	12 Vdc		
- Minimum/maximum	9 Vdc - 14 Vdc		
Operating temperature	0 - 50° C		
Dimensions	163 x 102 x 26 mm		
Current consumption	<b>NX-108</b>	<b>NX-116</b>	<b>NX-124</b>
- Minimum (quiescent, no lighting)	10 mA	10 mA	10 mA
- Nominal (quiescent, lighting ON)	29 mA	29 mA	29 mA
Current consumption in alarm			
- 1 zone in alarm, sounder/lighting ON	42 mA	42 mA	42 mA
- Maximum (all LED's ON, sounder ON)	90 mA	110 mA	130 mA
Weight	228 g	230 g	232 g

## Technical specifications NX-1308, NX-1316, NX-1324

Operating power			
- Nominal	12 Vdc		
- Minimum/maximum	9 Vdc - 14 Vdc		
Operating temperature	0 - 50° C		
Dimensions	158 x 135x 30 mm		
Current consumption	<b>NX-1308</b>	<b>NX-1316</b>	<b>NX-1324</b>
- Minimum (quiescent, no lighting)	23 mA	23 mA	23 mA
- Nominal (quiescent, lighting ON)	29 mA	29 mA	29 mA
Current consumption in alarm			
- 1 zone in alarm, sounder/lighting ON	55 mA	47 mA	55 mA
- Maximum (all LED's ON, sounder ON)	90 mA	110 mA	130 mA
Weight	264 g	264 g	270 g

## Technical specifications NX-148

Operating power	
- Nominal	12 Vdc
- Minimum/maximum	9 Vdc - 14 Vdc
Operating temperature	0 - 50° C
Dimensions	158 x 135 x 30 mm
Current consumption	
- Minimum (quiescent, no lighting)	20 mA
- Nominal (quiescent, minimum lighting)	25 mA
- Nominal (quiescent, maximum lighting)	48 mA
Current consumption in alarm	
- 1 zone in alarm, sounder/lighting ON	65 mA
- Maximum (all LED's ON, sounder ON)	110 mA
Weight	290 g

# APPENDIX 1: REPORTING FIXED CODES IN CONTACT-ID AND SIA

The table below 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
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
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	321	YA
SIREN RESTORE	321	YH
AUX POWER OVERCURRENT (device number)	312	YP
AUX POWER RESTORE (device number)	312	YQ
LOW BATTERY (device number)	309	YT
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	TA
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 TROUBLE (zone number)	380	*T
ZONE TROUBLE RESTORE (zone number)	380	*R
ZONE TAMPER (zone number)	137	TA
ZONE TAMPER RESTORE (zone number)	137	TR
ZONE BYPASS (zone number)	570	*B
BYPASS RESTORE (zone number)	570	*U
EARLY OPEN / LATE CLOSE	451	OK
FAIL TO CLOSE	454	CI
ZONE ACTIVITY FAULT	391	NA
ZONE ACTIVITY RESTORE	391	NS
FREEZE ALARM	159	ZA
HIGH TEMP ALARM	158	KH
MANUAL FIRE ALARM (pull station)	115	FA

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". SEE 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 (see locations 110 - 169).

## APPENDIX 2: REPORTING ZONE CODES IN SIA OR CONTACT ID

The NX-4 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 it will be programmed in the configuration group 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	TA	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
21	KH	High Temp Alarm
22	FA	Manual Fire Alarm

The NX-4 can 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 generated the alarm. The event code will come from the chart below, and it will be programmed in the configuration group event code.

Programmed Event Code	CONTACT-ID	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
21	158	High Temp Alarm
22	115	Manual Fire Alarm

## APPENDIX 3: EXPANDER NUMBERS FOR REPORTING EXPANDER TROUBLE

The tables below list the device numbers that will be reported for each expander/keypad where a trouble condition is present. For trouble conditions relating to the control panel, the device number is "0".

### Keypads

KEYPAD	PART 1
1	192
2	200
3	208
4	216
5	224
6	232
7	240
8	248

### Wireless receiver NX-448E

Wireless receiver	DIP 1	DIP 2	DIP 3	Expander number reported
1	OFF	OFF	OFF	35
2	ON	OFF	OFF	36
3	OFF	ON	OFF	37
4	ON	ON	OFF	38
5	OFF	OFF	ON	39
6	ON	OFF	ON	32
7	OFF	ON	ON	33
8	ON	ON	ON	34

### Output module NX-507E or NX-508E

Output module	DIP 1	DIP 2	DIP 3	Expander number reported
1	ON	ON	OFF	24
2	OFF	OFF	ON	25
3	ON	OFF	ON	26
4	OFF	ON	ON	27
5	ON	ON	ON	28
6	OFF	OFF	OFF	29
7	ON	OFF	OFF	30
8	OFF	ON	OFF	31

# CE DECLARATION



**GE Security**



## MANUFACTURERS DECLARATION OF CONFORMITY For

**Product identification:**

Model/type : NX control panels                      BOM rev. level                      See Model Listing  
 Category (description) : NX Alarm Control System  
 Brand : GE-Security - Aritech/ITI/Caddx

**Manufacturer:**

GE Interlogix/Caddx 1420 N. Main, Gladewater Texas 75647 USA	GE Interlogix 2008 Orchard Avenue City West BusinessCampus Naas Road, Dublin 24
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**EU Representative:**

GE Interlogix B.V.  
 Kelvinstraat 7  
 6003 DH Weert  
 The Netherlands

Concerning	RTTE		
	EMC	Safety	Telecom
A sample of the product has been tested by:	Compliance Engineering Ireland Ltd. RAYSTOWN, RATOATH ROAD, ASHBOURNE, CO. MEATH, IRELAND & GE Security Ireland Ltd. Unit 2008, Orchard Ave, City West Business Campus. Naas Road Dublin 24, Ireland	GE Security Ireland Ltd. Unit 2008, Orchard Ave, City West Business Campus. Naas Road Dublin 24, Ireland	Belcomlab
Test report reference	CE Qualification Plan: 04DRQP003		
	04DREMC001/006/007/008/009/010/011/012/013 & 04E1244-2	02DUB_RES575LVD-1	BCL/00-04
Applied standards	EN50130-4/A2(2003) EN55022/A2(2003) EN61000-3-2(2000) EN61000-3-3(1995)/A1(2001) EN61000-6-3(2001)	EN60950-1(2001)	CTR21(1998) +EG201121(1998)

**Equipment class identifier** (RF products falling under the scope of R&TTE)

Not Applicable     
  None (class 1 product)     
  (class 2 product)

**Means of conformity**

"We declare under our sole responsibility that this product is in conformity with Directive 93/68/EEC (Marking) and/or complies to the essential requirements and all other relevant provisions of the 1999/5/EC (R&TTE) based on test results using (non) harmonized standards in accordance with the Directives mentioned"

Signature of representative/manufacturer:

Raoul van Bergen  
 Manager Control & Communications GE Security B.V.  
 Kelvinstraat 7  
 6003 DH Weert  
 The Netherlands

Place : Weert  
 Date : 7 March 2005

Number: 46.01b

[www.gesecurity.net](http://www.gesecurity.net)

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