



***NetworX***

---

**NetworX<sup>TM</sup> Series**

**NX-148E LCD Keypad**

---

**Installation and Setup**

*Includes models NX-148E, NX-148E-CF, and NX-148E-CF-W*

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

*This document contains proprietary information of GE Security, USA and is furnished to its customer solely to assist that customer in the installation, testing, operations, and/or maintenance of the equipment described. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of GE Security.*

*Please refer to the current GE Security product catalog for detailed warranty information.*

Main	800-727-2339	Technical Support	888-437-3287
Outside the US	903-845-6941	Sales & Literature	800-547-2556
Main Fax	903-845-6811	Web:	<a href="http://www.ge-security.com">www.ge-security.com</a>

## SAFETY SYMBOL LEGEND



### Warning

Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in personal injury.

\* This symbol indicates electrical warnings and cautions.



### Caution

Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in damage to or destruction of equipment or property.

\*\* This symbol indicates general warnings and cautions.



### Note

Indicates an essential or important procedure, instruction, condition, or statement.



### Tip

Indicates a user tip. Provides helpful information that is not normally defined in regular use, but from an experienced user.



### Enter

Indicates a key or button should be pressed to enter data.

---

# Table of Contents

<b>1.</b>	<b>ENTERING THE PROGRAM MODE.....</b>	<b>4</b>
<b>2.</b>	<b>SELECTING THE MODULE TO PROGRAM .....</b>	<b>4</b>
<b>3.</b>	<b>PROGRAMMING A LOCATION.....</b>	<b>4</b>
	3A. NUMERICAL DATA.....	4
	3B. BINARY DATA.....	5
	3C. CHARACTER DATA .....	5
<b>4.</b>	<b>LOADING FACTORY DEFAULTS.....</b>	<b>7</b>
<b>5.</b>	<b>ENROLLING.....</b>	<b>7</b>
<b>6.</b>	<b>PROGRAMMING THE KEYPADS .....</b>	<b>8</b>
	6A. USING THE FUNCTION MENU .....	8
	6B. ADJUSTING THE VIEW & BRIGHTNESS OF THE LCD .....	9
	6C. CUSTOM MESSAGES .....	9
	6D. CUSTOM MESSAGES IN LANGUAGE 2 .....	10
	6E. SET KEYPAD OPTIONS .....	10
	6F. SET KEYPAD NUMBER AND PARTITION .....	11
<b>7.</b>	<b>KEYPAD FUNCTIONS.....</b>	<b>12</b>
	7A. READING THE EVENT LOG .....	12
	7B. SET ELAPSED TIME IN MINUTES SINCE LAST AUTOTEST.....	13
	7C. SET SYSTEM TIME AND DATE .....	14
	7D. ADJUST KEYPAD TONE.....	14
	7E. VIEW ZONE STATUS .....	14
	7F. VIEW ALARM MEMORY.....	15
	7G. TEST FUNCTION.....	15
	7H. DISPLAY TEST FUNCTION.....	15
	7I. LIGHT CONTROL FOR X-10 DEVICES.....	15
	7J. HOUSE CODES FOR X-10 DEVICES .....	16
	7K. CHANGE LANGUAGES .....	16
	7L. CHANGING USER CODES.....	16
	7M. ASSIGNING AUTHORITY LEVEL.....	17
	7N. RESET FUNCTION .....	18
	7O. OTHER FUNCTIONS.....	18
<b>8.</b>	<b>PARTITIONED SYSTEMS OPERATION.....</b>	<b>19</b>
	8A. MASTER MODE .....	19
	8B. “TEMPORARY” MASTER MODE .....	19
	8C. LIGHTS IN PARTITIONING MASTER MODE.....	19
	8D. DISPLAYS IN THE PARTITIONING MASTER MODE.....	20
<b>9.</b>	<b>SERVICE DISPLAY.....</b>	<b>21</b>
<b>10.</b>	<b>MAXIMUM WIRE RUN.....</b>	<b>23</b>
<b>11.</b>	<b>SPECIFICATIONS .....</b>	<b>24</b>

# 1. ENTERING THE PROGRAM MODE

ACTION		RESULT
 * 8	.....	Enters the Program Mode. Prompts for the programming code.
 [Go To Program Code] Factory Default is 9 7 1 3	.....	If the "Go To Program Code" is valid, the LCD screen will prompt for the device address to program. You are now in the Program Mode and ready to select the module.

# 2. SELECTING THE MODULE TO PROGRAM

**Tip:** All modules connected to the NX control panel are programmed through the keypad. So the module you are programming should be the first entry.

 0 #	.....	Programs the NX Control Panel 0 is the module number of the control and # is the entry key. Other module entry numbers can be found in their corresponding manuals.
--	-------	--

# 3. PROGRAMMING A LOCATION

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

## 3a. NUMERICAL DATA

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

Shortcut keys:

		Previous location.
		Same location.
		Next sequential location.

### 3b. **BINARY DATA**

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

### 3c. **CHARACTER DATA**

Character Data is used to enter LCD text when programming. (Refer to **\*⓪Ⓛ** feature on page 9 for custom messages.) Custom zone descriptions and messages are stored character or ASCII data type. This information is programmed using the bottom line of the display as a text editor. Once a character location has been entered, the current data will be displayed on the bottom line. As is always the case, the top line will display the current location and segment number. The five (5) function keys, as well as the up and down arrow to the right of the display, are now used to edit the message prior to saving it back to the location storage. An underscore (   ) in the display indicates the current cursor location.

Shortcut keys:

 <b>*</b>	.....	Saves character or word; moves cursor to right
 <b>CANCEL</b>	.....	Moves cursor to left.
 <b>▲</b> or <b>▼</b>	.....	Scrolls through available characters. (See Tip) (In Library Mode) Scrolls through available words.
 <b>STAY</b>	.....	Inserts blank space.
 <b>CHIME</b>	.....	Deletes characters.
 <b>EXIT</b>	.....	Accesses the Library (page 6)
 <b>BYPASS</b>	.....	Makes the character "flash". (In Library Mode) Makes the entire word "flash".
 <b>#</b>	.....	Exits the edit mode.

**Tip:** An alternate method is to enter the 2-digit number found in Table 3-1 or Table 3-3 that corresponds to the desired character. To accept this character, press **\***. The character will remain and the cursor will advance one space to the right.

**Table 3-1 ENGLISH CHARACTERS**

No. 00		No. 12	L	No. 24	X	No. 36	9	No. 48	l	No. 60	x	No. 72	*	No. 84	@
01	A	13	M	25	Y	37	a	49	m	61	y	73	+	85	[
02	B	14	N	26	Z	38	b	50	n	62	z	74	,	86	↕
03	C	15	O	27	0	39	c	51	o	63	!	75	-	87	]
04	D	16	P	28	1	40	d	52	p	64	"	76	.	88	^
05	E	17	Q	29	2	41	e	53	q	65	#	77	/	89	_
06	F	18	R	30	3	42	f	54	r	66	\$	78	:	90	`
07	G	19	S	31	4	43	g	55	s	67	%	79	;	91	{
08	H	20	T	32	5	44	h	56	t	68	&	80	<	92	
09	I	21	U	33	6	45	i	57	u	69	'	81	=	93	}
10	J	22	V	34	7	46	j	58	v	70	(	82	>	94	→
11	K	23	W	35	8	47	k	59	w	71	)	83	?	95	←

**Table 3-2 ENGLISH LIBRARY**

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

**Table 3-3 AMERICAN SPANISH CHARACTERS**

No. 00		No. 12	L	No. 24	W	No. 36	8	No. 48	i	No. 60	r	No. 72	"	No. 84	:
01	A	13	M	25	X	37	9	49	í	61	s	73	#	85	;
02	B	14	N	26	Y	38	a	50	j	62	t	74	&	86	<
03	C	15	Ñ	27	Z	39	á	51	k	63	u	75	'	87	=
04	D	16	O	28	0	40	b	52	l	64	ü	76	(	88	>
05	E	17	P	29	1	41	c	53	m	65	ú	77	)	89	@
06	F	18	Q	30	2	42	d	54	n	66	v	78	*	90	[
07	G	19	R	31	3	43	e	55	ñ	67	w	79	+	91	↕
08	H	20	S	32	4	44	é	56	o	68	x	80	,	92	]
09	I	21	T	33	5	45	f	57	ó	69	y	81	-	93	^
10	J	22	U	34	6	46	g	58	p	70	z	82	.	94	_
11	K	23	V	35	7	47	h	59	q	71	!	83	/	95	`

**Table 3-4 AMERICAN SPANISH LIBRARY**

ABAJO	CONTACTO	EXTERIOR	JARDIN	PRINCIPAL	SOTANO
ALARMA	CRISTAL	FACHADA	LABORATORIO	PUERTA	TALLER
ALMACEN	DESPACHO	FUEGO	LATERAL	RECEPCION	TECHO
ARRIBA	DETECTOR	GARAJE	LAVABO	RECIBIDOR	TERRAZA
AVERIA	DISPARO	GERENCIA	MAGNETICO	SABOTAJE	TIENDA
AZOTEA	DOBLE TECHNOLOGIA	GOLPE	OFICINA	SALA	TRASERO
BARRERA	DORMITORIO	HABITACION	PANICO	SALIDA	VALLA
CAJA FUERTE	EMERGENCIA	HUMO	PARED	SALON	VENTANA
CLARABOYA	ENTRADA	INFORMATICA	PASILLO	SENSOR	VESTIBULO
COCINA	ESTACIONAMIENTO	INFRARROJO	PERSIANA	SILENCIOSA	ZONA
COMEDOR	ESTUDIO	INTERIOR	PLANTA	SIRENA	

## 4. LOADING FACTORY DEFAULTS

ACTION	RESULT
--------	--------

Follow procedures on page 4 (Sections 1 and 2) and enter the Program Mode for the module to default.

 **9 1 0 #**

.....

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

To load the factory defaults for the LCD keypad, enter the Program Mode from a **different** keypad (does not have to be LCD keypad), and follow the same procedures.

---

 ***The two-line Custom and two-line Shutdown Messages will not be defaulted.***

---

## 5. ENROLLING

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

## 6. PROGRAMMING THE KEYPADS

This section describes how to program the address and partition of each keypad, as well as the available options. The address of the keypad is important because this is how the panel supervises the keypads.

### FACTORY DEFAULTS:

Master Code: **1 2 3 4** when using a 4-digit code, or **1 2 3 4 5 6** for a 6-digit code

Go To Program code: **9 7 1 3** when using a 4-digit code, or **9 7 1 3 0 0** for a 6-digit code

### 6a. USING THE FUNCTION MENU

ACTION	RESULT
 <b>*</b>	..... Accesses the Function menu. The display will begin scrolling though available functions. (Table 6-1 shown below.)
<i>Tip: If you know the function numbers simply press * [function number].</i>	
 <b>4 6</b> (example only)	..... Press the number(s) listed for that function.
 <b>*</b>	..... Displays the next menu item.
 <b>#</b>	..... Exits the Function Menu.

These are samples of the displays that will scroll automatically in the Function Menu.

Select an Option  
Press \* for help

Table 6-1 provides a list of the Function Menu items, as well as page references for further instructions.

Select an Option  
↓ = Zone Review

Table 6-1 FUNCTION MENU

FUNCTION	RESULT	PG	FUNCTION	RESULT	PG
<b>* 0</b>	Adjust keypad tone	14	<b>* 7</b>	Reset function	18
<b>* 1</b>	Temp Master Mode	19	<b>* 9 0</b>	Log review	12
<b>* ▲</b>	View zone status	14	<b>* 9 1</b>	Adjust view / brightness of LCD	9
<b>* 2</b>	Service menu	21	<b>* 9 2</b>	Programming custom messages	9
<b>* 3</b>	View alarm memory	15	<b>* 9 3</b>	Set keypad options	10
<b>* 4 4</b>	Test function	15	<b>* 9 4</b>	Set keypad number and partition	11
<b>* 4 5</b>	Display test function	15	<b>* 9 5</b>	Set elapsed time in minutes since last autotest	13
<b>* 4 6</b>	Light control for X-10	15	<b>* 9 7</b>	Set system time and date	14
<b>* 4 7</b>	House codes for X-10	16	<b>* 9 8</b>	Call back for download	18
<b>* 4 9</b>	Change languages	16	<b>* 9 9</b>	Seize phone line for download	18
<b>* 5</b>	Changing user codes	16	<b>* CHIME</b>	Walk Test	18
<b>* 6</b>	Assigning user authority	17	<b>* EXIT</b>	Silent Exit	

## 6b. ADJUSTING THE VIEW & BRIGHTNESS OF THE LCD

ACTION	RESULT
 * 9 1	..... Prompts to "Please Enter Your Code".
 [master code]	..... Prompts to raise or lower the <b>View</b> angle.
 ▲ or ▼	..... Using the scroll keys to the right of the LCD, you can raise or lower the viewing angle of the text.
 *	..... Advances to the <b>Brightness</b> option. Prompts to brighten or dim the LCD lighting.
 ▲ or ▼	..... Use the scroll keys again to adjust to desired brightness.
 *	..... Exits this mode.

## 6c. CUSTOM MESSAGES

### IMPORTANT NOTES

- 1) When using standard NX-148 keypad(s) and NX-148E keypad(s) in the same system, **it is necessary to use a NON-"E" keypad to program the custom messages.** The NON-"E" keypads can be identified by the fact that they do not display a menu when \* is pressed.
- 2) The messages (custom, zone, and shutdown) are transferred to other LCD keypads after this mode is exited. **All keypads must be addressed and enrolled for this to happen.**
- 3) Use the \* 9 4 function to set the keypad numbers prior to programming custom messages.
- 4) If a keypad is added after messages are programmed, you should either program ALL messages in it, or enter custom message programming on an existing keypad and make changes. This is to prevent accidentally overwriting existing messages. Refer to \* 9 3 option to prevent overwriting the custom message only.

ACTION	RESULT
 * 9 2	..... Prompts to "Please Enter Your Code".
 [program code]	..... The LCD will now prompt you to enter message number followed by #. Zones 1 through 192 custom messages are message numbers 1-192 respectively. Message 193 - Custom message top line. Message 194 - Custom message bottom line. Message 195 - Shutdown message top line. Message 196 - Shutdown message bottom line.

-  [message number] # ..... The LCD will display the zone number on the top line and the description will be on the bottom line. **Use the instructions on page 5 for editing character data.**
  
-  EXIT ..... Any changes will automatically be copied to all other LCD keypads in the system.
  -  If you desire an LCD keypad to have a different custom message, you must enable Custom Message Lock under the \* 9 3 function (pg 10)

## 6d. CUSTOM MESSAGES IN LANGUAGE 2

Tip: Exit \* 9 2 mode prior to changing languages.

ACTION	RESULT
 * 4 9 ..... Keypad is now toggled to the second language.	
Proceed with steps for usual * 9 2 programming.	

## 6e. SET KEYPAD OPTIONS

ACTION	RESULT
 * 9 3 ..... Prompts to "Please Enter Your Code".	
 [program code] ..... The LCD will now prompt you through the options listed on the following chart.	The current state of the option will be shown in the lower right corner of the display.
 * ..... Advances to the next option <i>without</i> making changes.	Otherwise, follow the instructions on the bottom line of the LCD display to select the desired option. This will also advance to the next option.

OPT	KEYPAD FEATURES	
1	<b>NOT USED</b>	
2	<b>SILENT KEYPAD?</b>	Enable Silent Keypad Option. If enabled, only the entry/exit and sounder chime are silenced.
3	<b>DING DONG CHIME?</b>	Enable Ding Dong Sound for Chime. If off, chime will be a single tone. (Refer to NX control panel installation manual, location 40)
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 Zone Information. If on, the LCD keypad will display faulted or bypassed zone information when the system is armed.
6	<b>BEEP ON PANICS?</b>	Enable Panic, Fire, and Medical BEEPtone. Will sound a short beep to verify that the keypress was accepted.
7	<b>DISABLE SERVICE?</b>	Suppresses the "Service" Message. This will not allow the "Service Required" message to be displayed for any reason. If there is a system trouble, *E will still show the "Service Required" 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 over-writing the custom message during keypad copy.
12	<b>SELECT AN OPTION:</b> Programs special characteristics. 1=Display "Press * For Help" 2=Disable LED Extinguish on this keypad 3=On if PIN should be hidden when programming 4=On suppresses beeps when an RF transmission is lost 5-8=RESERVED ( <b>Do not program!</b> )	

## 6f. SET KEYPAD NUMBER AND PARTITION

ACTION	RESULT
 * 9 4	..... Prompts to "Please Enter Your Code".
 [program code]	..... Prompts for the keypad number.  ↳ The current keypad number will be displayed in the lower right hand corner.
 [keypad number] *	..... Prompts for the partition number.  ↳ The current partition will be displayed in the lower right hand corner.
 [partition number] *	..... Automatically exits this mode.

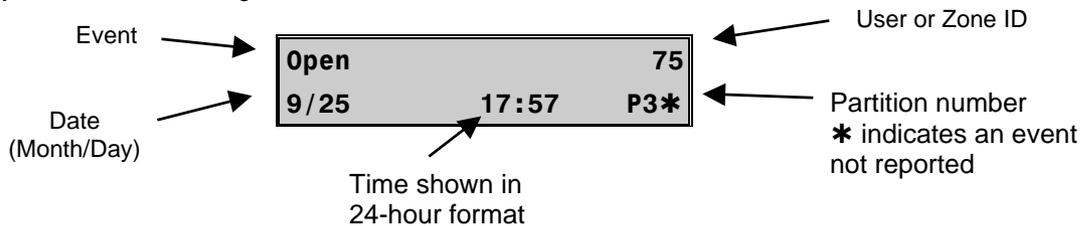
## 7. KEYPAD FUNCTIONS

### 7a. READING THE EVENT LOG

The control panel has an event log that can be retrieved using a master code. This log contains a listing of the last 185 events along with date, time, and partition where the event occurred.

ACTION	RESULT
* 9 0	..... Prompts to "Please Enter Your Code".
[master code]	..... Shows the most recent event.
▼	..... Views the events from newest to oldest.
▲	..... Views the events from oldest to newest.

The display contains the following information.



This screen shows an opening of Partition 3 on September 25<sup>th</sup> at 5:27 p.m. by user 75. The \* shows that this event is not programmed to be reported to the central monitoring station.

### POSSIBLE LOG MESSAGES

DISPLAY	DESCRIPTION
<b>TXlobat</b>	Transmitter Low Battery - The transmitter has a low battery.
<b>ZN Lost</b>	Zone Lost - A wireless or multiplexed zone device is not reporting to the control.
<b>Duress</b>	Duress - The control has been armed or disarmed with a Duress code.
<b>Man Fire</b>	Manual Fire - Keypad "Fire" has been activated.
<b>Aux 2</b>	Auxiliary 2 - Keypad "Medical" has been activated.
<b>Panic</b>	Panic - Keypad "Panic" has been activated.
<b>KP Tamper</b>	Keypad Tamper - The keypad tamper has been activated.
<b>BoxTamp</b>	Box Tamper - The box tamper circuit has been activated.
<b>AC Fail</b>	AC Fail - AC failure has been detected.
<b>OverCur</b>	Over Current - A short circuit of a power supply has occurred.
<b>Srn Tamp</b>	Siren Tamper - A siren or speaker tamper has been detected.
<b>Tel Flt</b>	Telephone Fault - A telephone fault or tamper has been detected.
<b>Exp Trb</b>	Expansion Trouble - An expansion device or keypad is not reporting to the control.
<b>Log Full</b>	Log Full - The event log is full.

DISPLAY	DESCRIPTION
Open	Open - Reports user number, date, time and partition of opening.
Close	Close - Reports user number, date, time and partition of closing.
Exit Err	Exit Error - Entry/Exit zone was faulted at the instant the exit delay expired.
Rec Close	Recent Close - An alarm occurred within 5 minutes after the control was armed.
Autotest	Auto Test - Sending a communicator test at a specified interval.
Start Prog	Start Programming - Local programming is started.
End Prog	End Programming - Local programming is ended.
Start Dnld	Start Download - Download session is started.
End Dnld	End Download - Download session is ended.
Cancel	Cancel - System is disarmed; Cancel was initiated within 5 minutes of an alarm.
Gnd Flt	Ground Fault - A short to ground has been detected.
Man Test	Manual Test - Bell and/or communicator test while system is in disarmed condition.
Re-exit	Re-Exit - The exit delay has been re-started without disarming the system.
Output Trip	Output Trip - A trip has occurred on an expander auxiliary output.
Data Lost	Data Lost - Communication of a signal has failed (log only event).
Walk-test	Walk-Test - A zone "Walk-Test" mode has been activated.
End Test	End Test - Test has been ended.
Cross-Trip	Cross Trip - The first zone of a cross zone has been tripped (log only event).
Expansion Event	Expansion Event - An expansion module has created an undefined event.
Partial Arm	Partial Arm - Reports a closing in the stay mode.
Listen In	Listen In - A listen in function has been activated.
Service Start	Service Start - Technician is on site.
Service End	Service End - Technician is off site.
Code Entry	Code Entry - A code has been entered.
First Open	First Open - Reports when the first partition is disarmed.
Last Close	Last Close - Reports when the last partition is armed.
Sprnkrl	Sprinkler - Instant sprinkler supervisory report
Clock Set	Clock Set - Clock has been reset.
RF Jammed	RF Jammed - A wireless expansion module is jammed
CleanMe	CleanMe - A smoke detector requires cleaning.

## 7b. SET ELAPSED TIME IN MINUTES SINCE LAST AUTOTEST

ACTION	RESULT
 * 9 5	..... Prompts for a code.
 [program code]	..... Displays the elapsed time screen.
 0 0 5 (example only)	..... [100's digit] [10's digit] [1's digit]
 #	..... Saves and exits.

## 7c. SET SYSTEM TIME AND DATE

ACTION	RESULT
 * 9 7	..... Prompts to "Please Enter Your Code".
 [master code]	..... Displays date and time with the current hour flashing.
 ▼ or ▲	..... Scroll to select the proper hour.
 *	..... Advances to the selection for the minutes.

Repeat the last two steps until the entire time and date is set.

## 7d. ADJUST KEYPAD TONE

ACTION	RESULT
 * 0	..... Prompts to use the scroll keys (right of the display) to raise or lower the tone.
 ▲ to raise the tone	..... The keypad will emit a continuous tone to allow you to hear the current selection.
 ▼ to lower the tone	
 #	..... Saves the tone and exits the mode.

## 7e. VIEW ZONE STATUS

ACTION	RESULT
 * ▲	..... Displays the zone status.
 ▲ or ▼	..... Displays the list of ALL zones in sequential order by zone number.
 #	..... Exits the mode.

## 7f. VIEW ALARM MEMORY

ACTION	RESULT
 * 3	..... Displays the zone descriptions.
 ▲ or ▼	..... Displays the alarm memory list in sequential order by zone number.
 #	..... Exits the mode.

## 7g. TEST FUNCTION

ACTION	RESULT
 * 4 4	..... Test will be performed as programmed. <i>✍</i> If the siren test is performed, enter a user code to silence the siren.

## 7h. DISPLAY TEST FUNCTION

ACTION	RESULT
 * 4 5	..... All display pixels and LED indicators will flash. Press any key to end test.

## 7i. LIGHT CONTROL FOR X-10 DEVICES

When used in conjunction with an X-10 output device such as the NetworX NX-507E, NX-508E, NX-534E or NX-540E, this menu allows the user to control up to ten X-10 devices from each keypad.

ACTION	RESULT
 * 4 6	..... Prompts to "Select Light Number 0-9".
 [device number]	..... Displays the light number on the left. Prompts to turn the light "On" or "Off" on the right.
 ▲ to turn ON	..... Prompts to "Select Light Number 0-9".
 ▼ to turn OFF	Repeat steps 2 and 3 until all devices have been programmed.
 #	..... Exits the function.

## 7j. HOUSE CODES FOR X-10 DEVICES

When used in conjunction with an X-10 output device such as the NetworX NX-507E, NX-508E, NX-534E or NX-540E, this menu allows the installer to program the specific X-10 unit and house codes for the ten X-10 devices for this keypad.

ACTION	RESULT
☞ * 4 7	..... Prompts to "Please Enter Your Code".
☞ [program code]	..... Displays Light number and Unit Code.
☞ [X-10 unit code] *	..... Prompts for the House Code of the device.
☞ [X-10 house code] *	..... Prompts for the House Code of the device. Repeat steps 3 and 4 until all devices have been programmed.
☞ #	..... Exits the function.

## 7k. CHANGE LANGUAGES

ACTION	RESULT
☞ * 4 9	..... Keypad toggles to the <b>second</b> language.
☞ * 4 9	..... Keypad reverts to the <b>first</b> language.

## 7l. CHANGING USER CODES

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

ACTION	RESULT
☞ * 5	..... Prompts "Please Enter Your Code".
☞ [master code]	..... Prompts for a user number.
☞ [user code]	..... Prompts for a new code.

**2-digit ID** if NX-4, NX-4V2, NX-6,

NX-6V2, NX-8, NX-8V2, NX-8-CF

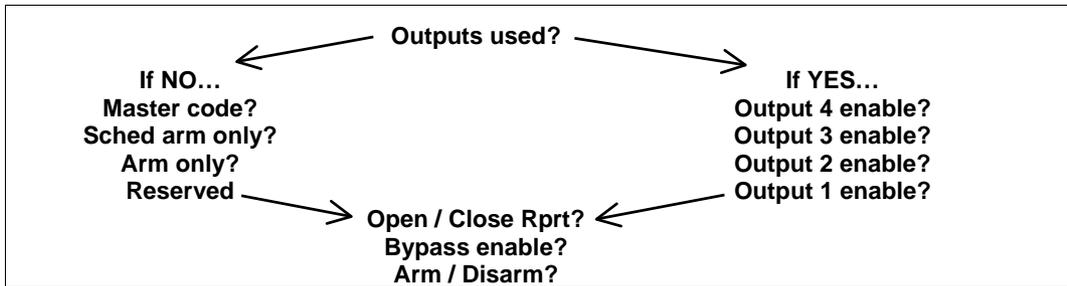
**3-digit ID** if NX-8E, NX-8E-CF (use leading zeros!! (i.e. 007 for user 7)

- ☞ [new user code]      . . . . . Prompts for a user number. Repeat steps 3 and 4 if another user code needs to be programmed.  
     ✍ Keypad will beep 3 times if code is rejected.
- ☞ # while display is prompting      . . . . . Exits and saves data.  
 for a user number.

## 7m. ASSIGNING AUTHORITY LEVEL

✍ You must have authority to the partition you wish to add or remove from another person's authority.

ACTION	RESULT
☞ * 6	. . . . . Prompts "Please Enter Your Code".
☞ [master code]	. . . . . Prompts for a user number.
☞ [user code]	. . . . . Prompts through the following list of attributes.
<b>2-digit ID</b> if NX-4, NX-4V2, NX-6, NX-6V2, NX-8, NX-8V2, NX-8-CF <b>3-digit ID</b> if NX-8E, NX-8E-CF (use leading zeros!! (i.e. 007 for user 7)	



- ☞ [partition number]      . . . . . ☞ Default allows access to ALL partitions.  
     The first keypress will remove access to the partition. To reestablish access, press the partition number again.
- ☞ \*      . . . . . Saves data. Prompts for next user code. Return to step 3 to program another user code.
- ☞ #      . . . . . Exits this mode.

**NOTE TO INSTALLER: 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 access to all partitions or you will not be able to add new users (can be "go to program code" if enabled in location 43 of the control panel). If you desire the end user to be able to add new codes, you must remove the partition authority from all blank codes.**

## 7n. RESET FUNCTION

 The system must be disarmed to perform this function.

ACTION	RESULT
 * 7	..... The smoke detectors, zone troubles, and zone tampers have now been reset.

If the keypad begins beeping, the reset did not execute properly. Enter your code to silence the keypad. Wait a few minutes and repeat step 2 to attempt another reset.

## 7o. OTHER FUNCTIONS

\* 9 8 (while system is disarmed) Causes the control to do a callback for a download.  
 **A valid user code may be required if feature is enabled in location 41 of the control panel.** (Refer to the NX Control Panel Installation Manual)

\* 9 9 (while system is disarmed) Causes the control to seize the phone line for a download.  
 **A valid user code may be required if feature is enabled in location 41 of the control panel.** (Refer to the NX Control Panel Installation Manual)

\* CHIME (must be enabled in the control panel) Entering \* CHIME followed by a user code will allow a walk-through zone test where all zones become silent and local (non-reporting). Each time a zone is faulted, the number of the faulted zone(s) will be displayed on the keypad and the chime will sound. It will also be entered into alarm memory and the internal log. To exit at any time during this mode, enter a user code. Otherwise, the "Walk-Test Mode" will automatically exit after 15 minutes.

## 8. PARTITIONED SYSTEMS OPERATION

### 8a. MASTER MODE

The LCD keypad can be programmed to operate all the system partitions simultaneously. To set the multi-partition mode, use the \*93 function as described on page 10, and answer "YES" to the question "Master keypad?"

### 8b. "TEMPORARY" MASTER MODE

Press \* 1 [user code] to *temporarily* access the Master Mode. The keypad will revert back to its assigned partition 60 seconds after a key press or 10 seconds without a key press. Press # to exit.

### 8c. LIGHTS IN PARTITIONING MASTER MODE

- **ARMED** will illuminate if ALL partitions are armed.
- **READY** will illuminate if ALL partitions are "Ready". The *ready light* will flash if all areas are Ready or Force armable.
- **FIRE** will illuminate if ANY one area has a Fire condition. The *fire light* will flash if ANY area has a Fire Trouble condition.
- **POWER** will illuminate if the primary power is connected to the NX8-E control panel. It will flash if the system has a low standby battery condition.
- **STAY** will illuminate if ANY area has the *stay light* on.
- **CHIME** will illuminate if ANY partition is in the "Chime" mode.
- **EXIT** will illuminate if ANY area is timing an exit delay. It will flash if ANY area is in the last 10 seconds of an exit delay.
- **BYPASS** will illuminate if ANY area has a zone bypassed.
- **CANCEL** will flash during an abort delay time. If a code is entered followed **CANCEL** while this light is flashing, all abortable reports will stop the communication process to the central station. If a code is entered followed by **CANCEL** during or after an alarm report, the *cancel light* will illuminate and remain constant until the central station has received the cancel report.
- **SOUNDER** will sound if ANY area has the sounder on. This includes Entry delay, Exit delay, Chime, and Alarm.

## 8d. DISPLAYS IN THE PARTITIONING MASTER MODE

### ARMED AND READY STATUS

The LCD screen will display the Armed and Ready status of ALL eight (8) partitions if any or all of the areas is armed or not ready. Refer to the following examples:

Ready	12345678
Armed	12-4-678

All 8 areas are Ready, and areas 3 and 5 are disarmed.

↵ Flashing number on the ready line = area is ready to be *Force Armed*.  
 Flashing number on the armed line = area is armed *Instant*.

System Ready
Type code to arm

ALL areas are disarmed and ready to arm.

### ARMING AND DISARMING MULTIPLE PARTITIONS

12-45-78	Disarm	→
--3 67-	Arm	→

To arm/disarm multiple partitions, enter a code that has arm/disarm authority for ALL of the partitions to be armed/disarmed. A display similar to the one on the left will appear on the LCD screen.

**TOP LINE OF DISPLAY** = disarmed areas to which this code has access

**BOTTOM LINE OF DISPLAY** = areas that are armed

Table 8-1 List of Possible Conditions

LCD DISPLAY If area number is ....	CONDITION
Blank Blank	Area Not Used or Authorized
Dash (-) Dash (-)	Area Not Ready
Flashing Dash (-)	Area Ready to Force Arm
Dash (-) Flashing	Area Armed Instant
Area # Dash (-)	Area Disarmed & Ready to Arm
Dash (-) Area #	Area is Armed

- To disarm all of the areas, press ▲.
- To arm all of the areas, press ▼.
- To toggle a single area between the armed and disarmed conditions, press \* [Area number]. For example, if Area 4 is armed, \* 4 will disarm Area 4. If Area 4 is disarmed, \* 4 will arm it.
- To control the individual areas, refer to the following section "Operating Individual Areas in the Multi-Partition Mode".

## Operating Individual Areas in the Multi-Partition Mode

Enter a code that is a valid arm/disarm code for the area you wish to operate.

12-45-78	Disarm	→
--3-56--	Arm	→

Only the areas authorized by this user code will appear.

- To toggle between the armed and disarmed states on an individual area, press \* [Area Number].
- To operate an individual area, enter the number of the partition you wish to operate. The LCD keypad will now operate as a single area keypad. All keys and functions entered will affect this individual partition only. The lights and LCD display represent the status of that partition only. The word "System" will be replaced with the word "Area #". The following is an example of this feature.
- Press # to exit.

Area 5 Ready
Type code to arm

Area 5 is selected and Area 5 is ready to arm.  
Press # # to exit the individual partition mode.

## Silencing Alarms in the Multi-Partition Mode

If the keypad is sounding an alarm or the siren is running, it can be silenced by entering a code with the authority for the area(s) that are in alarm.

✍ The **EXIT**, **BYPASS** and Alarm Memory \* 3 function keys will only work if an individual partition is selected.

## 9. SERVICE DISPLAY

The following message will be displayed periodically if the security system requires service.

Service Required
Type *2 for help

If you see this display, press \* 2. One or more of the following fault messages will be displayed. Use the scroll keys to browse through them. Press # # to exit the service menu.

Control
Over Current

A short circuit of a control's power supply has occurred.

Control
Siren Trouble

Open circuit has occurred on the bell or siren circuit.

Control
Box Tamper

(Optional) The Box Tamper circuit has activated.

Control
Phone Trouble

The Phone Line connected to the control is not operating properly.

**Control  
Fail to Comm.**

The control attempted to communicate a message to the Central Station, but was unsuccessful.

**Control  
Ground Fault**

A short to ground has been detected on a control circuit.

**Control  
Loss of Time**

Your system has lost total power and needs the clock reset.

**Control  
Power Trouble**

The main power to your system is not on.

**Control  
Low Battery**

The standby battery is low.

**Expansion  
Aux Comm Fail**

An auxiliary reporting device has failed to communicate, i.e. NX-580E, NX-582E, etc.

**Expansion  
Over-current**

A short circuit of an expansion device's power supply has occurred.

**Expansion  
Power Trouble**

The main power to an expansion power supply is not on.

**Expansion  
Low Battery**

An expansion power supply has a low battery.

**Expansion  
Box Tamper**

A box containing an expansion device has been opened.

**Expansion  
RF Jammed**

A radio receiver is being jammed.

**Expansion  
Trouble**

An expansion device or keypad is not reporting to the control panel.

**Expansion  
Siren trouble**

An expansion device has detected some form of trouble on the bell or siren circuit.

**Zone  
Tamper, Press \***

A zone is tampered. Press \* to identify the tampered zone.

**Zone**  
**Low Battery, Press \***

A wireless device has a low battery. Press \* to identify the zone.

**Zone**  
**Lost, Press \***

A wireless or multiplexed zone device is not reporting to the control. Press \* to identify the zone.

**Zone**  
**Trouble, Press \***

A zone is experiencing some form of trouble (probably wiring). Press \* to identify the zone.

## DEVICE NUMBERS FOR REPORTING

The following table provides the device numbers that will be reported for trouble conditions.

Table 9-1

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

## 10. MAXIMUM WIRE RUN

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

 **FOR UL COMMERCIAL FIRE SYSTEMS, A MINIMUM 18 AWG WIRE SHALL BE USED.**

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

# 11. SPECIFICATIONS

<b>OPERATING POWER</b>	<b>12 VDC Regulated Supplied by NX control panel or NX-320E</b>
<b>OPERATING TEMPERATURE</b>	<b>32 to 120 degrees F</b>
<b>CURRENT DRAW</b>	<b>110 mA Maximum 75 mA without Sounder</b>
<b>LCD KEYPAD DIMENSIONS</b>	<b>6.4" Wide 5.3" High 1.0" Deep</b>
<b>SHIPPING WEIGHT</b>	<b>2 lbs.</b>

## COMPATIBLE NETWORK CONTROL PANELS

NX-4	NX-6	NX-8	NX-8-CF
NX-4V2	NX-6V2	NX-8V2	NX-8E-CF



Main 800-727-2339  
Outside the US 903-845-6941  
Main Fax 903-845-6811

Technical Support 888-437-3287  
Sales & Literature 800-547-2556  
Web: [www.ge-security.com](http://www.ge-security.com)