



NetworX

NetworX[™] Series

NX-216E Zone Expander Module

Installation and Startup

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.

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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:	www.gesecurity.com		

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.

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UNDERWRITERS LABORATORIES INFORMATION

The NX-216E is UL approved and listed in accordance with the following UL Standards (US & Canada):

UL365	Police Station Connected Burglar Alarm Units & Systems
UL609	Local Burglar Alarm Units & Systems
UL864	Control Units for Fire-Protective Signaling Systems
UL985	Household Fire Warning Systems
UL1023	Household Burglar Alarm Systems
UL1610	Central Station Burglar Alarm Units

I. GENERAL DESCRIPTION

The NX-216E is a microprocessor-controlled 16-zone expander for the NetworX control panels (refer to Compatibility chart on the back of this manual). Up to five NX-216E zone expander modules can be added to the NX-8 or NX-8-CF control panels with a maximum zone count of 48 zones. Up to twenty-three expanders can be added to the NX-8E and NX-8E-CF controls with a maximum zone count of 192 zones. Each expander has an optional tamper switch and power isolator making it ideal for use in a remote location.

II. ORDERING INFORMATION

PART #	DESCRIPTION	PART #	DESCRIPTION
NX-216E	16 Zone Expander	NX-320E	Remote Power Supply
NX-8	NX-8V2 Control Panel only (48 zones)	NX-408E #	8 Zone Wireless Expansion Module (UL LISTED PART #60-904)
NX-8-KIT	NX-8V2 Control, NX-108E LED Keypad, & 16.5V 40VA Transformer	NX-416E #	16 Zone Wireless Expansion Module (UL LISTED PART #60-904)
NX-8-CF-KIT	NX-8 Commercial Fire Control Panel in NX-003-CF Enclosure, (2) NX-148E-CF LCD keypads; NX-870E Fire Supervision module; 16.5V 50VA Transformer	NX-448E #	48 Zone Wireless Expansion Module (UL LISTED PART #60-904)
NX-8E	NX-8E Control Panel only (192 zones)	NX-508E	Eight Output Module
NX-8E-KIT	NX-8E Control, NX-108E LED Keypad, & 16.5V 40VA Transformer	NX-870E	Fire Supervision Module
NX-8E-CF-KIT	NX-8E Commercial Fire Control Panel in NX-003-CF Enclosure, (2) NX-148E-CF LCD keypads; NX-870E Fire Supervision module; 16.5V 50VA Transformer	NX-003-CF	Commercial Fire Enclosure (Red)

These wireless devices are UL listed for residential applications only. Please refer to the GE Security product catalog for warranty details.

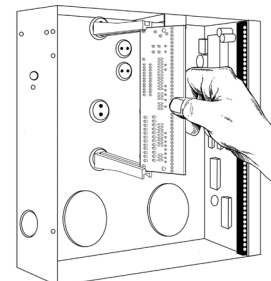
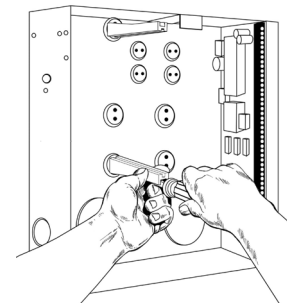
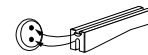
III. BOARD INSTALLATION

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

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

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

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

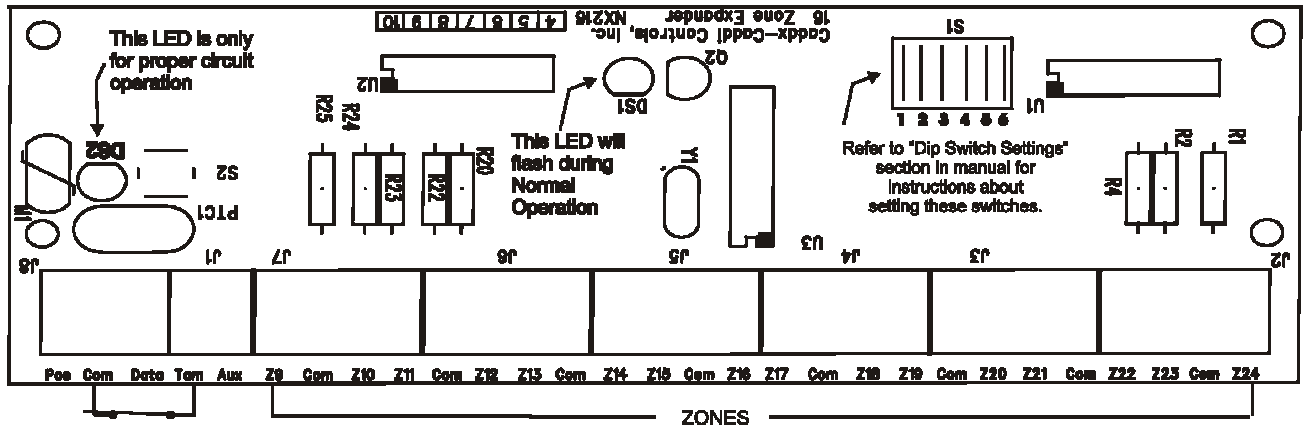


IV. WIRING



Any unused zones must have the EOL resistor across it (unless all eight are disabled by dip switch 6).

Figure IV—1



Pos, Com, and Data - Connect to keypad terminals on the NX-8, NX-8-CF, NX-8E, NX-8E-CF or the NX-320E.

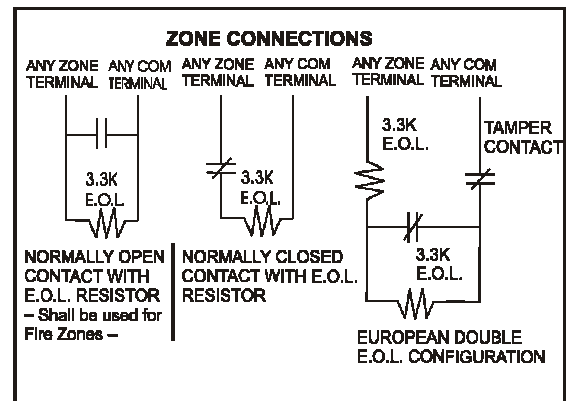
Tam - Connect to Com terminal through a normally closed switch.

Aux - Current limited to 100mA (MUST BE ADDED TO CONTROL AUX POWER)

ALL OUTPUTS ARE CLASS 2 POWER LIMITED.

MAXIMUM WIRE RUN WHEN CONNECTED TO NX-8, NX-8E, NX-8-CF	
If using Aux terminal:	
250' - 24 gauge	
500' - 20 gauge	
1000' - 18 gauge	
1500' - 16 gauge	
2500' - 14 gauge	
If NOT using Aux terminal:	
250' - 24 gauge	
750' - 24 gauge	
1000' - 22 gauge	
2000' - 20 gauge	
2500' - 18 gauge	

MAXIMUM WIRE RUN WHEN CONNECTED TO NX-320E	
If using Aux terminal:	
250' - 22 gauge	
500' - 18 gauge	
1000' - 16 gauge	
1500' - 14 gauge	
2500' - 12 gauge	
If NOT using Aux terminal:	
500' - 22 gauge	
750' - 20 gauge	
1000' - 20 gauge	
2000' - 16 gauge	
2500' - 16 gauge	



NOTE: FOR COMMERCIAL FIRE SYSTEMS, THE MODEL NX-216E ZONE EXPANDER SHALL BE MOUNTED IN THE CONTROL UNIT'S ENCLOSURE OR ANOTHER IDENTICAL ENCLOSURE WIRED IN CONDUIT AND WITHIN 20 FEET OF CONTROL UNIT.

V. TERMINAL DESCRIPTION

POS	Connect to the KP POS terminal of the NetworX control panel (refer to Compatibility chart on the back of this manual). Current draw is 30 mA.
COM	Connect to the KP COM terminal of the control panel.
DATA	Connect to the KP DATA terminal of the control panel. (See the wiring diagram for wire specifications)
TAM	Connect as shown on diagram. IF NOT USED, CONNECT TO A COM TERMINAL.
AUX	Can be used to power devices directly from the NX-216E. Power is coming from the control panel therefore the current draw of these devices must be added to the total current draw of the NX-216E. This output is current limited to 100 mA.
Z9	Connect to one side of zone 9 loop. Connect the other side to COM terminal. Open or short causes alarm. (See wiring diagram for examples)
COM	Common (-) terminal for zones 9 & 10.
Z10	Connect to one side of zone 10 loop. Connect the other side to COM terminal. Open or short causes alarm. (See wiring diagram for examples).
Z11—Z24	Connect as described for Z9 & Z10.

VI. DIP SWITCH SETTINGS (6 position)

The first thing that must be decided is the starting zone of this particular zone expander. The starting zone must be on a boundary of eight (8) zones. The sixteen (16) zones for this module will move out from this starting position. To set the starting zone, set the dip switch according to the table below:

 **THE POSITION OF ALL SWITCHES IS ONLY UPDATED WHEN THE NX-216E IS POWERED UP. BEFORE YOU CHANGE THE POSITION OF THESE SWITCHES YOU MUST POWER DOWN THE EXPANDER.**

Starting Zone #	Expander #	Switch 1	Switch 2	Switch 3	Switch 4	Switch 5
9	22	OFF	OFF	OFF	OFF	OFF
9	23	ON	OFF	OFF	OFF	OFF
17	16	OFF	ON	OFF	OFF	OFF
25	17	ON	ON	OFF	OFF	OFF
33	18	OFF	OFF	ON	OFF	OFF
41	19	ON	OFF	ON	OFF	OFF
49	20	OFF	ON	ON	OFF	OFF
57	21	ON	ON	ON	OFF	OFF
65	96	OFF	OFF	OFF	ON	OFF
73	97	ON	OFF	OFF	ON	OFF
81	98	OFF	ON	OFF	ON	OFF
89	99	ON	ON	OFF	ON	OFF
97	100	OFF	OFF	ON	ON	OFF
105	101	ON	OFF	ON	ON	OFF
113	102	OFF	ON	ON	ON	OFF
121	103	ON	ON	ON	ON	OFF
129	104	OFF	OFF	OFF	OFF	ON
137	105	ON	OFF	OFF	OFF	ON
145	106	OFF	ON	OFF	OFF	ON
153	107	ON	ON	OFF	OFF	ON
161	108	OFF	OFF	ON	OFF	ON
169	109	ON	OFF	ON	OFF	ON
177	110	OFF	ON	ON	OFF	ON
185	111	ON	ON	ON	OFF	ON




Dip switch 6 - Dip switch 6 is used to disable the second block of eight (8) zones on this zone expander. This can be done if only an eight- (8) zone expander is required in a particular expander location. **To disable the second group of eight (8) zones on this expander, turn dip switch 6 on.**

VII. ENROLLING THE EXPANDER

The NetworX control panels have the ability to automatically find and store in memory the presence of all keypads, zone expanders, wireless receivers and any other module connected to the data terminal. (Refer to Compatibility chart on the back of this manual). This allows these modules to be supervised by the control panel. To enroll the modules enter the Program Mode of the control panel (refer to the installation manual for the specific control panel). When the Program Mode is exited, it will automatically enroll the devices. The enrolling process takes about 12 seconds, during which time the "Service" LED will illuminate. User codes will not be accepted during the enrolling process. Once a module is enrolled, if it is not detected by the control, the "Service" LED will illuminate.

VIII. DEFAULT ZONE CONFIGURATIONS

Zones can be programmed to be one of thirty different zone configurations (zone types). Configurations # 17 through 20 can be used for wireless or hardwired zones using European double EOL configuration. The default zone configurations are listed below. These zone configurations can be customized by programming locations 110 to 169.

-  **All Fire Zones are pre-programmed for UL systems.**
-  **Zone Types 21-30 are applicable to the NX-8E and NX-8E-CF control panels ONLY.**
-  **The expander zones will not follow the Fast Loop Response.**

DATA	DESCRIPTION OF DEFAULT CONFIGURATION
1	DAY ZONE - Instant when system is armed trouble zone when system is disarmed.
2	24-HOUR AUDIBLE - Creates an instant yelping siren alarm regardless of the armed state of the panel.
3	ENTRY/EXIT DELAY 1 - A trip will start entry delay 1. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
4	FOLLOWER WITH AUTO-BYPASS DISABLED - 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 <i>not</i> bypass in Stay Mode, <i>nor</i> automatically bypass even if enabled in Segment 1 / Location 23.
5	INTERIOR FOLLOWER WITH AUTO- BYPASS ENABLED - 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 in Stay Mode, and automatically bypass if enabled in Segment 1 of Location 23.
6	INSTANT - This zone creates an instant alarm whenever it is tripped and the Armed LED is on.
7	24-HOUR SILENT - Creates an instant silent alarm regardless of the armed state of the control panel. It will not display on the keypad.
8	FIRE - This zone will illuminate the Fire LED and sound the temporal siren each time the zone is shorted. It will also rapidly flash the Fire LED indicating a trouble if the zone is open.
9	ENTRY/EXIT DELAY 2 - A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
10	24-HOUR SILENT SUPERVISED - Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad.
11	KEYSWITCH ZONE - This zone type will arm and disarm the partition or partitions of the control panel that resides in each time the zone is shorted. Keyswitch arming will report as user #99.
12	INTERIOR FOLLOWER WITH "CROSS ZONE" ENABLED - 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. This zone will bypass in Stay Mode and automatically bypass when enabled in Segment 1 of Location 23.
13	INSTANT ENTRY GUARD - This zone creates an instant alarm whenever it is tripped and the Stay LED is off. It will start an entry delay time 2 if it is tripped and the system is armed and the Stay LED is on.

DATA	DESCRIPTION OF DEFAULT CONFIGURATION
14	ENTRY/EXIT DELAY 1 WITH GROUP BYPASS ENABLED - 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.
15	INTERIOR FOLLOWER WITH GROUP BYPASS ENABLED - This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry/exit delay times. This zone will bypass when the "Group Bypass" command is entered at the keypad. This zone will bypass in Stay Mode and automatically bypass even if enabled in Segment 1 / Location 23.
16	INSTANT WITH GROUP BYPASS ENABLED - 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.
17	ENTRY/EXIT DELAY 1 WITH TAMPER ENABLED - A trip will start entry delay 1. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed. This configuration group can be used to enable tamper on a wireless transmitter.
18	INTERIOR FOLLOWER WITH TAMPER AND AUTO-BYPASS ENABLED - 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 in Stay Mode and automatically bypass if enabled in Segment 1 / Location 23. This configuration group can be used to enable tamper on a wireless transmitter.
19	INSTANT WITH TAMPER ENABLED - This zone creates an instant alarm whenever it is tripped and the Armed LED is on. This configuration group can be used to enable tamper on a wireless transmitter.
20	ENTRY/EXIT DELAY 2 WITH TAMPER ENABLED - A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed. This configuration group can be used to enable tamper on a wireless transmitter.
Zone Types 21-30 are applicable to the NX8-E and NX-8E-CF control panels ONLY	
21	GAS DETECTION - Creates an instant alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
22	LOW TEMP DETECTION - Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
23	HIGH TEMP DETECTION - Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
24	MANUAL FIRE - This zone will illuminate the Fire LED and sound the temporal siren each time the zone is shorted. It will also rapidly flash the Fire LED indicating a trouble if the zone is open.
25	CHIME ONLY - 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.
26	INTERIOR FOLLOWER DELAY 2 - 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 2 times. This zone will automatically bypass if enabled in Segment 1 of Location 23.
27	INTERIOR FOLLOWER FORCE ARMABLE - 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.
28	ENTRY/EXIT FORCE ARMABLE DELAY 2 - A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
29	INTERIOR FOLLOWER WITH ACTIVITY SUPERVISION ENABLED - 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. It will send a report if the zone activity time is reached without a change of state. Refer to Location 40 / Segment 11. This zone will automatically bypass if enabled in Segment 1 of Location 23.
30	ENTRY/EXIT WITH ACTIVITY SUPERVISION ENABLED - A trip will start entry delay 1. It will send a report if the zone activity time is reached without a change of state. Refer to Location 40 / Segment 11. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.

IX. ZONE CONFIGURATION AND PARTITION

The programming for all zone information is performed in the NetworX control panels (refer to Compatibility chart on the back of this manual). For instructions on accessing and programming the control panel as well as changing the characteristics of a configuration group, refer to the installation manual for the corresponding control panel. The following programming information is taken from the NX-8 Installation Manual.

LOCATION 25 CONFIGURATION GROUP ZONES 1-8

(8 segments, numerical data) Location 25 contains the Configuration Group (Zone type) for zones 1-9. Segment 1 is for zone 1; Segment 8 is for zone 8. Default configurations are found in the table on page 7.

LOCATION 26 PARTITION SELECT ZONES 1-8

(8 segments, feature selection data) Location 26 is used to select the partition(s) that zones 1-8 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Location 28 has 8 segments. Segment 1 corresponds to zone 1 and Segment 8 corresponds to zone 8.

Segments 1 - 8:

1 = Partition # 1

3 = Partition # 3

5 = Partition # 5

7 = Partition # 7

2 = Partition # 2

4 = Partition # 4

6 = Partition # 6

8 = Partition # 8

LOCATIONS 27 – 36;

LOCATIONS 170 – 205 (Available on NX-8E and NX-8E-CF only)

These locations contain the Configuration Group and Partition Select for Zones 9 – 192. Use the instructions associated with Location 25 and 26 to program the remaining locations. Worksheets for these locations are included for your convenience.

X. PROGRAMMING WORKSHEETS

LOC	DESCRIPTION	DEFAULT	DATA						
27	ZONES 9 - 16 CONFIGURATION GROUP	6-6-6-6-6-6-6-6							
28	ZONES 9 - 16 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	9	10	11	12	13	14	15	16
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
29	ZONES 17 – 24 CONFIGURATION GROUP	6-6-6-6-6-6-6-6							
30	ZONES 17 – 24 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	17	18	19	20	21	22	23	24
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
31	ZONES 25 – 32 CONFIGURATION GROUP	6-6-6-6-6-6-6-6							
32	ZONES 25 – 32 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	25	26	27	28	29	30	31	32
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
33	ZONES 33 – 40 CONFIGURATION GROUP	6-6-6-6-6-6-6-6							
34	ZONES 33 – 40 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	33	34	35	36	37	38	39	40
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8

LOC	DESCRIPTION	DEFAULT						DATA	
35	ZONES 41 – 48 CONFIGURATION GROUP	6-6-6-6-6-6-6							
36	ZONES 41 – 48 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	41	42	43	44	45	46	47	48
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8

NOTE: THE FOLLOWING LOCATIONS ARE ONLY AVAILABLE ON THE NX8-E and NX-8E-CF PANELS

170	ZONES 49 – 56 CONFIGURATION GROUP	6-6-6-6-6-6-6							
171	ZONES 49 – 56 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	49	50	51	52	53	54	55	56
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
172	ZONES 57 – 64 CONFIGURATION GROUP	6-6-6-6-6-6-6							
173	ZONES 57 – 64 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	57	58	59	60	61	62	63	64
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
174	ZONES 65 – 72 CONFIGURATION GROUP	6-6-6-6-6-6-6							
175	ZONES 65 – 72 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	65	66	67	68	69	70	71	72
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8

LOC	DESCRIPTION				DEFAULT			DATA	
176	ZONES 73 – 80 CONFIGURATION GROUP				6-6-6-6-6-6-6				
177	ZONES 73 – 80 PARTITION SELECT								
	Segment Zone	1	2	3	4	5	6	7	8
		73	74	75	76	77	78	79	80
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
178	ZONES 81 – 88 CONFIGURATION GROUP				6-6-6-6-6-6-6				
179	ZONES 81 – 88 PARTITION SELECT								
	Segment Zone	1	2	3	4	5	6	7	8
		81	82	83	84	85	86	87	88
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
180	ZONES 89 – 96 CONFIGURATION GROUP				6-6-6-6-6-6-6				
181	ZONES 89 – 96 PARTITION SELECT								
	Segment Zone	1	2	3	4	5	6	7	8
		89	90	91	92	93	94	95	96
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
182	ZONES 97 – 104 CONFIGURATION GROUP				6-6-6-6-6-6-6				
183	ZONES 97 – 104 PARTITION SELECT								
	Segment Zone	1	2	3	4	5	6	7	8
		97	98	99	100	101	102	103	104
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8

LOC	DESCRIPTION	DEFAULT						DATA	
184	ZONES 105 – 112 CONFIGURATION GROUP	6-6-6-6-6-6-6							
185	ZONES 105 – 112 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	105	106	107	108	109	110	111	112
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
186	ZONES 113 – 120 CONFIGURATION GROUP	6-6-6-6-6-6-6							
187	ZONES 113 – 120 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	113	114	115	116	117	118	119	120
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
188	ZONES 121 – 128 CONFIGURATION GROUP	6-6-6-6-6-6-6							
189	ZONES 121 – 128 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	121	122	123	124	125	126	127	128
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
190	ZONES 129 – 136 CONFIGURATION GROUP	6-6-6-6-6-6-6							
191	ZONES 129 – 136 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	129	130	131	132	133	134	135	136
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8

LOC	DESCRIPTION	DEFAULT						DATA	
192	ZONES 137 – 144 CONFIGURATION GROUP	6-6-6-6-6-6-6							
193	ZONES 137 – 144 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	137	138	139	140	141	142	143	144
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
194	ZONES 145 – 152 CONFIGURATION GROUP	6-6-6-6-6-6-6							
195	ZONES 145 – 152 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	145	146	147	148	149	150	151	152
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
196	ZONES 153 – 160 CONFIGURATION GROUP	6-6-6-6-6-6-6							
197	ZONES 153 – 160 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	153	154	155	156	157	158	159	160
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
198	ZONES 161 – 168 CONFIGURATION GROUP	6-6-6-6-6-6-6							
199	ZONES 161 – 168 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	161	162	163	164	165	166	167	168
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8

LOC	DESCRIPTION	DEFAULT						DATA	
200	ZONES 169 – 176 CONFIGURATION GROUP	6-6-6-6-6-6-6							
201	ZONES 169 – 176 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	169	170	171	172	173	174	175	176
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
202	ZONES 177 – 184 CONFIGURATION GROUP	6-6-6-6-6-6-6							
203	ZONES 177 – 184 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	177	178	179	180	181	182	183	184
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8
204	ZONES 185 – 192 CONFIGURATION GROUP	6-6-6-6-6-6-6							
205	ZONES 185 – 192 PARTITION SELECT								
	Segment	1	2	3	4	5	6	7	8
	Zone	185	186	187	188	189	190	191	192
		1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4
		5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6
		7	7	7	7	7	7	7	7
		8	8	8	8	8	8	8	8

XI. SPECIFICATIONS

OPERATING POWER	12VDC Supplied from NetworX control panel or NX-320E
AUXILIARY POWER	Supplied from NetworX control or NX-320E Current limited to 100mA
CURRENT DRAW	30mA
LOOP RESISTANCE	300 Ohms Maximum
LOOP RESPONSE	Selectable 50mS or 500mS
OPERATING TEMPERATURE	32 to 120 degrees F
DIMENSIONS	6.0" Wide 2.125" High 1.0" Deep
SHIPPING WEIGHT	2 lbs.

COMPATIBLE CONTROL PANELS:

NETWORX PANEL	MAX NX-216E MODULES	MAX ZONE COUNT
NX-8	5	48
NX-8-CF	5	48
NX-8E	23	192
NX-8E-CF	23	192



Main
Outside the US
Main Fax

800-727-2339
903-845-6941
903-845-6811

Technical Support 888-437-3287
Sales & Literature 800-547-2556
Web: www.ge-security.com