GE Interlogix

Caddx

NetworX Series

NX591E Cellemetry Module

Installation and Startup

TABLE OF CONTENTS

I. *GENERAL DESCRIPTION*

The NX591E is a microprocessor-controlled Cellemetry interface used to connect the NetworX series of control panels to AMPS cellular network for event reporting. The NX591E can be used for primary, backup, or additional reporting when used in conjunction with the panel communicator or other optional reporting modules. Flexible event selection allows only specific messages to be reported, keeping airtime to a minimum. The NX591E has 14 LEDs to provide extensive diagnostic and setup information.

II. *ACTIVATION VIA WEBSITE*

The cellemetry unit can be activated and managed via our web site at the following address:
Caddx: Products: Accessories & Modules: Cellemetry Module
http://www.caddx.com/products/nx591e.jsp

If your company already has an account set up, proceed to step 1 below. Otherwise, you must first complete the *Dealer Signup* and *Dealer Agreement* sections. Then continue with the following steps.

1. At the bottom of the web page, under *Customer Activation*, click on the link "On-line activation & account management, which takes you to the member login screen.

2. Type your Login Name and Password, then click **Login**

3. Several options are available on the left side of the next screen.

    a. "**Activate Unit**" -- This will activate the cellemetry unit. Enter the serial number of the cellemetry module. Multiple units can be added from this screen.
    b. "**Edit Unit Settings**" -- Complete the information based on the way you want to configure the reporting for the unit.

III.   ENCLOSURE INFORMATION

Inside the can, several 2-holed insertion points have been constructed. This allows for either vertical or horizontal placement of the modules. **Notice that the insertion points have 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 screws 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* PCB guide should be positioned opposite of 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.
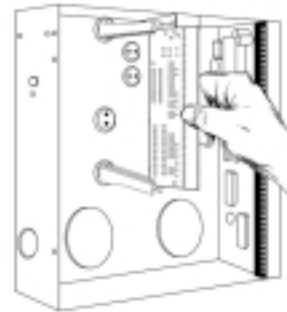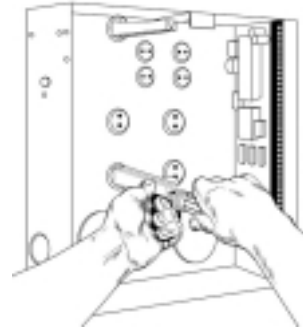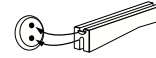
NOTE: Older style enclosures did not provide an exit hole for the 2dB "Rubber Duck" antenna included with the Cellemetry module. In such cases, you must either drill a new hole on top of the can or use an optional external antenna such as the 5dB "Mag Mount".

IV.   MODULE ADDRESS

The cellemetry module has a fixed address of **76**. When programming the module, enter the Program Mode and select the device address as 76. (See "PROGRAMMING THE MODULE", page 8.)

V.   *ENROLLING THE MODULE*

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 device on the keypad buss. This allows these devices to be supervised by the control panel. To enroll the devices, enter the Program Mode of the NX control panel using the procedure outlined in the NX Installation Manual. When the Program Mode is exited, the NX control will automatically enroll all the devices. The enrolling process takes about 12 seconds, during which time the ΛService@ LED will illuminate. When using the LCD Keypad, the "Service Required" message will be displayed. User codes will not be accepted during the enrolling process. Once a module is enrolled, if the control panel does not detect it, the ΛService@ LED will illuminate.

VI.   *WIRING THE MODULE*

MAXIMUM WIRE RUN

LENGTH (IN FEET)	WIRE GAUGE (Connected To Control Panel or NX320 Power Supply
10	20
50	18
100	16

VII.   *TERMINAL DESCRIPTION*

TERMINAL	DESCRIPTION
POS	Connect to the KP POS terminal of the panel. Refer to "Specifications" in this manual for power consumption.
COM	Connect to the KP COM terminal of the panel.
DATA	Connect to the KP DATA terminal of the panel.
TAMPER	Normally closed

VIII. *UNDERSTANDING THE LIGHTS*

The module has 14 green LEDs along the back of the board. These LEDs provide valuable information about the status of the module as shown in the following table.

Table VIII-1

LED	DESCRIPTION
	DS3 – DS6 LEDs flashing = Network failure DS3 – DS6 LEDs off = Normal idle condition (DS3 & DS4) (DS5 & DS6) Flashing alternately = Shutdown
DS1	Indicates proper circuitry operation
DS3	ON steady = Reading MINs from cellemetry radio
DS4	ON steady = Looking for cellular service
DS5	ON steady = Sending a network verification message packet to tower Flashing = Waiting for acknowledgement
DS6	ON = Sending data message to tower Flashing = Waiting for acknowledgement
XMIT	Message packet being transmitted to tower
POOR	
FAIR	The LEDs will either be Off, On, Flashing slow, or Flashing Fast depending
GOOD	on the dB of the signal. Refer to Table VIII-2 for details.
BEST	
SVC	Cellular service available
SVC2	Two or more control channels available
RXD	Data being received from cellemetry radio
TXD	Data being sent to cellemetry radio

Table VIII-2

LED Key 0 = OFF S = SLOW F = FAST 1 = ON	dB		POOR	FAIR	GOOD	BEST
	-114	-107	0	0	0	0
	-106	-104	S	0	0	0
	-103	-101	F	0	0	0
	-100	-98	1	0	0	0
	-97	-95	1	S	0	0
	-94	-92	1	F	0	0
	-91	-89	1	1	0	0
	-88	-86	1	1	S	0
	-85	-83	1	1	F	0
	-82	-80	1	1	1	0
	-79	-77	1	1	1	S
	-76	-74	1	1	1	F
	-73	higher	1	1	1	1

IX. CONNECTION DIAGRAM
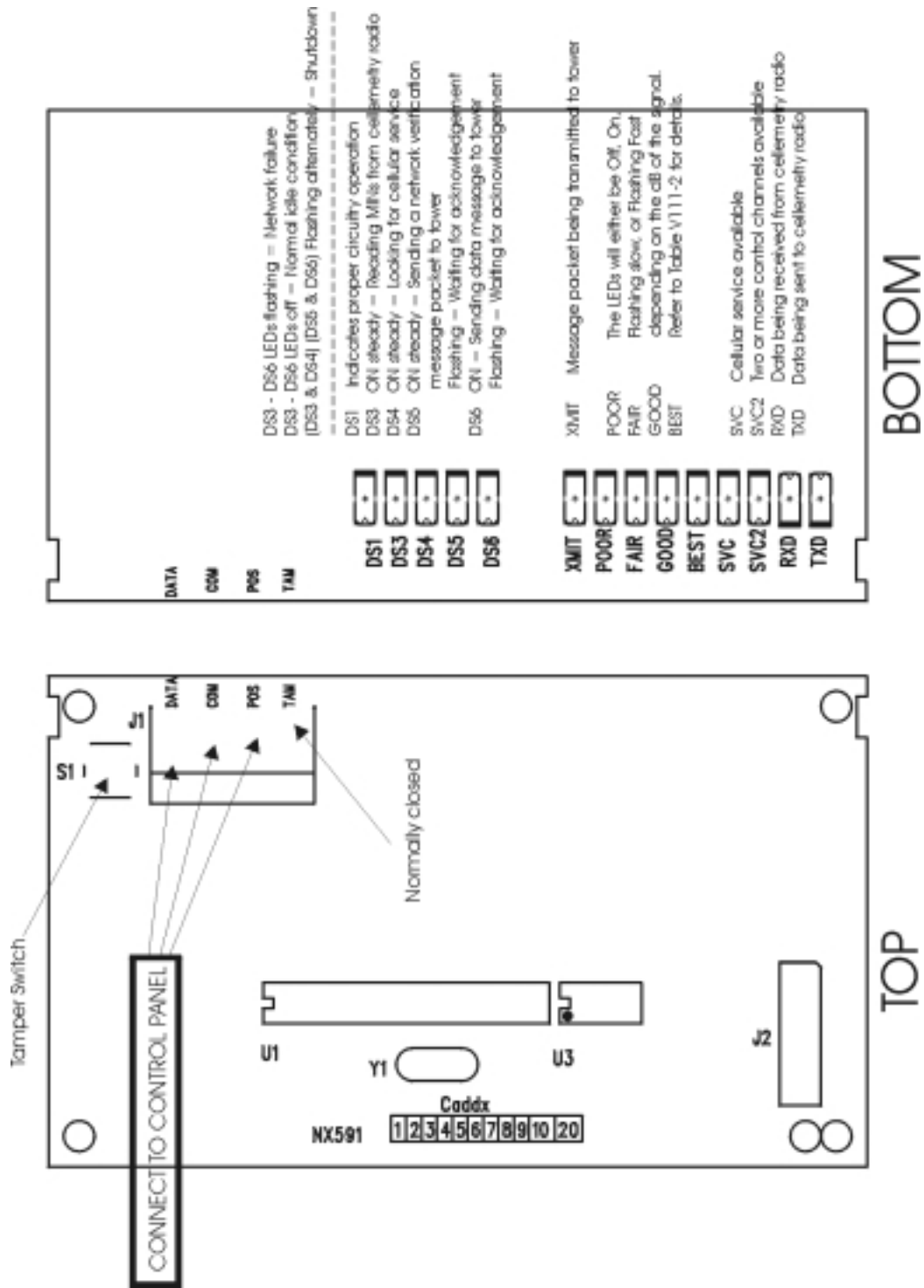
X. PROGRAMMING THE MODULE

A. USING THE LED KEYPAD

<u>ACTION</u>	<u>RESULT</u>

1. Entering the Program Mode

$$7 \ Û \ p$$

Enters the Program Mode.

Stay, *Chime*, *Exit*, *Bypass* & *Cancel* LEDS will flash.

$$7$$ Go To Program Code

Factory Default is

$$q \ o \ i \ k$$

If the "Go To Program Code" is valid, the "Service" LED will flash and the 5 function LEDs will illuminate steady. You are now in the Program Mode and ready to select the module to program.

2. Selecting the Module to Program:

$$7 \ o \ n \ \#$$

The address of this cellemetry module is 79.

The Armed LED will illuminate while it is waiting for a programming location to be entered.

3. Factory Defaulting the Module

$$7 \ q \ i \ h \ \#$$

The keypad will beep 3 times indicating that the loading is in progress. Remember you will erase any values you may have entered previously.

4. Programming a Location:

Once the number of the module to be programmed has been entered, the "Armed" LED will illuminate while it is waiting for a programming location to be entered.

$$3$$

If an attempt is made to program an invalid entry for a particular segment, the keypad sounder will emit a triple error beep (beep, beep, beep), and remain in that segment awaiting a valid entry.

To Enter a Location:

$$7 \ [location] \ \#$$

The Armed LED will flash. If the location is valid, the "Armed" LED will extinguish, the "Ready" LED will illuminate, and the zone LED's will show the data for the first segment of this location.

To Change Location Data:

7 [changed data]   The "Ready" LED will flash to indicate a data change in process and will continue until the data is saved.

7 Ú   The new data is saved.

The keypad will advance to the next segment and display its data.

NOTE: These steps are repeated until the last segment is reached.

To Exit a Location:

7 #   Exits from this location. The "Ready" LED will extinguish. The "Armed" LED will illuminate waiting for a new programming location to be entered.

To Review The Data:

7 [location] #   The Armed LED will flash. If the location number is valid, the "Armed" LED will extinguish, the "Ready" LED will illuminate, and the zone LEDs will show the binary data for the first segment of this location.

7 Ú   (Do not enter data.)
The next segment is displayed. Each time Ú is pressed, the data of the next segment will be displayed for review.

```
Shortcuts:

7  [🔥]        Previous location.

7  [✚]        Same location.

7  [🛡]        Next sequential location.
```

5. **Exiting the Program Mode:**

7 EXIT   Exits this programming level.

B.   *USING THE LCD KEYPAD*

All steps required for programming are the same as the aforementioned LED keypad. The LCD keypad display will prompt you for the data required. While in the programming mode, and not in a location, the number in parenthesis is the location you were previously changing. For example, if the display reads, "Enter location, then #   (5)", it is reminding you that location 5 was the last location you programmed. Refer also to "Programming Data" which follows.

C.   *PROGRAMMING DATA*

Programming data is always one of three types. One type of data is numerical, which can take on values from 0 -15, 0 - F, or 0 -255 depending on the segment size. The other type of data, feature selection data, is used to turn features on/off. It can also be used as character data for Internet names. Use the following procedures with these data types:

1.   Numerical Data

Numerical data is programmed by entering a number from 0-255 on the numeric keys of the system keypad. 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 3 LED = **4**   Zone 5 LED = **16**   Zone 7 LED = **64**
Zone 2 LED = **2**   Zone 4 LED = **8**   Zone 6 LED = **32**   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 become illuminated indicating 66 is in that location (2 + 64 = 66). Once the data is programmed, press [⇩ to enter the data and advance to the next segment of that location. After the last segment of a location is programmed, pressing [⇩ will exit that location, turn the "Ready" LED off, and the "Armed" LED on. As before, you are now ready to enter another programming location. If an attempt is made to program a number too large for a particular segment, the keypad sounder will emit a triple beep, indicating an error, and remain in that segment awaiting a valid entry.

2.   Feature Selection Data

Feature selection data will display the current condition (on or off) of eight features associated with the programming location and segment selected. Pressing a button on the touchpad (1 thru 8) that corresponds to the "feature number" within a segment will toggle (on/off) that feature. Pressing any numeric key between [**1**] and [**8**] for selection of a feature will make the corresponding LED illuminate (feature ON). Press the number again, and the LED will extinguish (feature OFF). You will see that numerous features can be selected from within one segment. For instance, if all eight features of a segment are desired, pressing [**1**]-[**2**]-[**3**]-[**4**]-[**5**]-[**6**]-[**7**]-[**8**] will turn on LED's 1 thru 8 as you press the keys, indicating that those features are enabled. **LCD Keypad Users Note: The numbers of the enabled features will be displayed. However, the features not enabled will display a hyphen (-).** After the desired setting of features is selected for this segment, press [⇩. This will enter the data and automatically advance to the next segment of the location. When you are in the last segment of a location and press [⇩ to enter the data, you will exit that location. This will now turn the "Ready" LED off and the "Armed" LED on. You are now ready to enter another programming location.

XI.   PROGRAMMING INSTRUCTIONS

Location 0   *Programming the Mode*
5 segments Numeric Data

This location contains the System Identification Number (SID). Factory default is 0-0-0-0-0 for AutoSID.

Location 1   *Feature Selection*
4 segments Feature Selection Data

Segment 1 contains the options to be programmed for the functioning of this module. Factory default for all options is OFF.

Option	Description	ON	OFF
1	Format	SIA	Contact ID
2	Test Signal	Daily ¬	Weekly £
3	System Preference	Use "A" or "B" side only	No Preference
4	"B" Side Preference	"B" Side (if Opt 3 is ON)	"A" Side
5	Alternate MIN	Disabled	Enabled
6	Disable Cellular Service LEDs	Disabled	Enabled
7	Enable Tamper Switch	Enabled	Disabled
8	Disable SIA DCS Area Modifier –	Disabled	Enabled

> *Notes:*
> ¬   Daily test will be performed 24 hours (+/- 10 minutes) from time this option is programmed.
> £   Weekly test will be performed 168 hours (+/- 10 minutes) from time this option is programmed.
> –   Some older SIA DCS compatible receivers may not support the use of area (partition) modifiers. In such cases, the area modifier must be disabled (Option 8 ON).

Segment 2 programs for **Host Acknowledgement** requirements. Factory default for all options is OFF.

Option	Description	ON	OFF
1	Central Station messages	Enabled	Disabled
2	Email messages	Enabled	Disabled
3	Pager messages	Enabled	Disabled
4	Periodic test signals	Enabled	Disabled
5-8	Reserved		

Segments 3 and 4 are reserved for future use.

Location 2   Events To Report To Central Station
(Phone fault detected)   16 segments of Feature Selection Data

$3.$ *Reporting must be enabled in the control panel for this location to function properly.*

This location selects the partition(s) to include when reporting to the Central Station. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 –16. Factory default is all partitions ON for Segment 1; All partitions are defaulted OFF for Segments 2 -16.

Table XI-1

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

SEGMENT	DESCRIPTION	SEGMENT	DESCRIPTION
1	*Alarms*	9	Tampers
2	Open/Close	10	Short Circuit & Ground Fault
3	Bypass	11	Sensor Lost
4	Zone Trouble	12	Sensor Low Battery
5	Power Trouble (AC Failure or Low Battery)	13	Expander Trouble
6	Siren & Telephone Fault	14	Failure To Communicate
7	Test Reports	15	Zone Activity Monitor
8	Program, Download & Log Full	16	Reserved

Location 3   Special Events To Report To Central Station
(Phone fault detected)   8 segments of Feature Selection Data

This location selects the partition(s) to include when reporting Special Events to the Central Station. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 – 8. Factory default is all partitions ON for Segments 2 and 4; all partitions OFF for Segments 1 and 3.

SEGMENT	DESCRIPTION
1	Alarm Restores
2	*Telephone Fault*
3	Start Download
4	*Fail to Communicate, Data Lost*
5-8	Reserved

Location 4   Events To Report To Email

(Phone fault detected)   16 segments of Feature Selection Data

3.   *Reporting must be enabled in the control panel for this location to function properly.*

This location selects the partition(s) to include when reporting to email. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 –16. Factory default is all partitions OFF

SEGMENT	DESCRIPTION	SEGMENT	DESCRIPTION
1	Alarms	9	Tampers
2	Open/Close	10	Short Circuit & Ground Fault
3	Bypass	11	Sensor Lost
4	Zone Trouble	12	Sensor Low Battery
5	Power Trouble (AC Failure or Low Battery)	13	Expander Trouble
6	Siren & Telephone Fault	14	Failure To Communicate
7	Test Reports	15	Zone Activity Monitor
8	Program, Download & Log Full	16	Reserved

Location 5   Special Events To Report To Email

(Phone fault detected)   8 segments of Feature Selection Data

This location selects the partition(s) to include when reporting Special Events to email. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 – 8. Factory default is all partitions OFF.

SEGMENT	DESCRIPTION
1	Alarm Restores
2	Telephone Fault
3	Start Download
4	Fail to Communicate, Data Lost
5-8	Reserved

Location 6   Events To Report To Pager

(Phone fault detected)   16 segments of Feature Selection Data

3.   *Reporting must be enabled in the control panel for this location to function properly.*

This location selects the partition(s) to include when reporting to a pager. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 –16. Factory default is all partitions OFF.

SEGMENT	DESCRIPTION	SEGMENT	DESCRIPTION
2	Alarms	9	Tampers
3	Open/Close	10	Short Circuit & Ground Fault
4	Bypass	11	Sensor Lost
5	Zone Trouble	12	Sensor Low Battery
6	Power Trouble (AC Failure or Low Battery)	13	Expander Trouble
7	Siren & Telephone Fault	14	Failure To Communicate
8	Test Reports	15	Zone Activity Monitor
9	Program, Download & Log Full	16	Reserved

Location 7   *Special Events To Report To Pager*

(Phone fault detected)   8 segments of Feature Selection Data

This location selects the partition(s) to include when reporting Special Events to a pager. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 – 8. Factory default is all partitions OFF.

SEGMENT	DESCRIPTION
1	Alarm Restores
2	Telephone Fault
3	Start Download
4	Fail to Communicate, Data Lost
5-8	Reserved

Location 8　　　Events To Report To Central Station
(Phone line is good)　　16 segments of Feature Selection Data

3. *Reporting must be enabled in the control panel for this location to function properly.*

This location selects the partition(s) to include when reporting to the Central Station when the phone line is good. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 –16. Factory default is all partitions OFF.

SEGMENT	DESCRIPTION	SEGMENT	DESCRIPTION
1	Alarms	9	Tampers
2	Open/Close	10	Short Circuit & Ground Fault
3	Bypass	11	Sensor Lost
4	Zone Trouble	12	Sensor Low Battery
5	Power Trouble (AC Failure or Low Battery)	13	Expander Trouble
6	Siren & Telephone Fault	14	Failure To Communicate
7	Test Reports	15	Zone Activity Monitor
8	Program, Download & Log Full	16	Reserved

Location 9　　　Special Events To Report To Central Station
(Phone line is good)　　8 segments of Feature Selection Data

This location selects the partition(s) to include when reporting Special Events to the Central Station when the phone line is good. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 – 8. Factory default is all partitions OFF.

SEGMENT	DESCRIPTION
1	Alarm Restores
2	Telephone Fault
3	Start Download
4	Fail to Communicate, Data Lost
5-8	Reserved

Location 10　　Events To Report To Email
(Phone line is good)　　16 segments of Feature Selection Data

3. *Reporting must be enabled in the control panel for this location to function properly.*

This location selects the partition(s) to include when reporting to email when the phone line is good. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 –16. Factory default is all partitions OFF

SEGMENT	DESCRIPTION	SEGMENT	DESCRIPTION
1	Alarms	**9**	Tampers
2	Open/Close	**10**	Short Circuit & Ground Fault
3	Bypass	**11**	Sensor Lost
4	Zone Trouble	**12**	Sensor Low Battery
5	Power Trouble (AC Failure or Low Battery)	**13**	Expander Trouble
6	Siren & Telephone Fault	**14**	Failure To Communicate
7	Test Reports	**15**	Zone Activity Monitor
8	Program, Download & Log Full	**16**	Reserved

Location 11   Special Events To Report To Email
(Phone line is good)   8 segments of Feature Selection Data

This location selects the partition(s) to include when reporting Special Events to email when the phone line is good. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 – 8. Factory default is all partitions OFF.

SEGMENT	DESCRIPTION
1	Alarm Restores
2	Telephone Fault
3	Start Download
4	Fail to Communicate, Data Lost
5-8	Reserved

Location 12   Events To Report To Pager
(Phone line is good)   16 segments of Feature Selection Data

3. *Reporting must be enabled in the control panel for this location to function properly.*

This location selects the partition(s) to include when reporting to a pager when the phone line is good. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 –16. Factory default is all partitions OFF

SEGMENT	DESCRIPTION	SEGMENT	DESCRIPTION
1	Alarms	9	Tampers
2	Open/Close	10	Short Circuit & Ground Fault
3	Bypass	11	Sensor Lost
4	Zone Trouble	12	Sensor Low Battery
5	Power Trouble (AC Failure or Low Battery)	13	Expander Trouble
6	Siren & Telephone Fault	14	Failure To Communicate
7	Test Reports	15	Zone Activity Monitor
8	Program, Download & Log Full	16	Reserved

Location 13   *Special Events To Report To Pager*
(Phone line is good)   8 segments of Feature Selection Data

This location selects the partition(s) to include when reporting Special Events to a pager when the phone line is good. To exclude any partition from reporting, simply turn off the LED corresponding to that particular partition. Using **Table XI-1** on page 12, enter the corresponding number of the partition(s) to include for each type of report found in Segments 1 – 8. Factory default is all partitions OFF.

SEGMENT	DESCRIPTION
1	Alarm Restores
2	Telephone Fault
3	Start Download
4	Fail to Communicate, Data Lost
5-8	Reserved

XII. *PROGRAMMING WORKSHEETS*

3   *DEFAULTS ARE SHOWN IN BOLD ITALICS*

LOC	PG	SEG	DESCRIPTION	DEFAULT	DATA
0	11		SYSTEM ID (all 0's = AutoSID)	*0-0-0-0-0*	_ _ _ _ _
1	11	1	FEATURE SELECTION		
			^ = SIA Format (Off = Contact ID)	*OFF*	
			_ = Daily Test Signal (Off = Weekly)	*OFF*	
			` = System Preference (Off = No preference)	*OFF*	
			a = "B" Side Preference (Off = "A" side)	*OFF*	
			b = Disable alternate MIN	*OFF*	
			c = Disable cellular service LEDs	*OFF*	
			d = Enable tamper switch	*OFF*	
			e = Disable SIA DCS area modifier	*OFF*	
		2	HOST ACKNOWLEGEMENT REQUIRED		
			^ = Host Ack for Central Station messages	*OFF*	
			_ = Host Ack for email messages	*OFF*	
			` = Host Ack for pager messages	*OFF*	
			a = Host Ack for periodic test signals	*OFF*	
			b -e =Reserved		
		3-4	Reserved		

LOC	PG	SEG	DESCRIPTION	PARTITION							
2	12		REPORTING EVENTS TO CENTRAL STATION (Phone line fault detected)								
				1	2	3	4	5	6	7	8
		1	*Alarms*								
		2	Open / Close								
		3	Bypass								
		4	Zone Trouble								
		5	Power Trouble (AC Fail or Low Battery)								
		6	Siren & Telephone Fault								
		7	Test Reports								
		8	Program, Download & Log Full								
		9	Tampers								
		10	Short Circuit & Ground Fault								
		11	Sensor Lost								
		12	Sensor Low Battery								
		13	Expander Trouble								
		14	Fail to Communicate								
		15	Zone Activity Monitor								
		16	Reserved								

LOC	PG	SEG	DESCRIPTION	PARTITION							
3	12		REPORTING SPECIAL EVENTS TO CENTRAL STATION (Phone line fault detected)								
				1	2	3	4	5	6	7	8
		1	Alarm Restores								
		2	*Telephone Fault*								
		3	Start Download								
		4	*Fail to Communicate, Data Lost*								
		5-8	Reserved	▨	▨	▨	▨	▨	▨	▨	▨
4	13		REPORTING EVENTS TO EMAIL (Phone line fault detected)								
				1	2	3	4	5	6	7	8
		1	Alarms								
		2	Open / Close								
		3	Bypass								
		4	Zone Trouble								
		5	Power Trouble (AC Fail or Low Battery)								
		6	Siren & Telephone Fault								
		7	Test Reports								
		8	Program, Download & Log Full								
		9	Tampers								
		10	Short Circuit & Ground Fault								
		11	Sensor Lost								
		12	Sensor Low Battery								
		13	Expander Trouble								
		14	Fail to Communicate								
		15	Zone Activity Monitor								
		16	Reserved	▨	▨	▨	▨	▨	▨	▨	▨
5	13		REPORTING SPECIAL EVENTS TO EMAIL (Phone line fault detected)								
				1	2	3	4	5	6	7	8
		1	Alarm Restores								
		2	Telephone Fault								
		3	Start Download								
		4	Fail to Communicate, Data Lost								
		5-8	Reserved	▨	▨	▨	▨	▨	▨	▨	▨

LOC	PG	SEG	DESCRIPTION	PARTITION							
6	13		REPORTING EVENTS TO PAGER (Phone line fault detected)								
				1	2	3	4	5	6	7	8
		1	Alarms								
		2	Open / Close								
		3	Bypass								
		4	Zone Trouble								
		5	Power Trouble (AC Fail or Low Battery)								
		6	Siren & Telephone Fault								
		7	Test Reports								
		8	Program, Download & Log Full								
		9	Tampers								
		10	Short Circuit & Ground Fault								
		11	Sensor Lost								
		12	Sensor Low Battery								
		13	Expander Trouble								
		14	Fail to Communicate								
		15	Zone Activity Monitor								
		16	Reserved								
7	14		REPORTING SPECIAL EVENTS TO PAGER (Phone line fault detected)								
				1	2	3	4	5	6	7	8
		1	Alarm Restores								
		2	Telephone Fault								
		3	Start Download								
		4	Fail to Communicate, Data Lost								
		5-8	Reserved								
8	15		REPORTING EVENTS TO CENTRAL STATION (Phone line is good)								
				1	2	3	4	5	6	7	8
		1	Alarms								
		2	Open / Close								
		3	Bypass								
		4	Zone Trouble								
		5	Power Trouble (AC Fail or Low Battery)								
		6	Siren & Telephone Fault								
		7	Test Reports								
		8	Program, Download & Log Full								
		9	Tampers								
		10	Short Circuit & Ground Fault								
		11	Sensor Lost								
		12	Sensor Low Battery								
		13	Expander Trouble								
		14	Fail to Communicate								
		15	Zone Activity Monitor								
		16	Reserved								

LOC	PG	SEG	DESCRIPTION	PARTITION							
9	15		REPORTING SPECIAL EVENTS TO CENTRAL STATION (Phone line is good)								
				1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
		1	Alarm Restores								
		2	Telephone Fault								
		3	Start Download								
		4	Fail to Communicate, Data Lost								
		5-8	Reserved								
10	15		REPORTING EVENTS TO EMAIL (Phone line is good)								
				1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
		1	Alarms								
		2	Open / Close								
		3	Bypass								
		4	Zone Trouble								
		5	Power Trouble (AC Fail or Low Battery)								
		6	Siren & Telephone Fault								
		7	Test Reports								
		8	Program, Download & Log Full								
		9	Tampers								
		10	Short Circuit & Ground Fault								
		11	Sensor Lost								
		12	Sensor Low Battery								
		13	Expander Trouble								
		14	Fail to Communicate								
		15	Zone Activity Monitor								
		16	Reserved								
11	16		REPORTING SPECIAL EVENTS TO EMAIL (Phone line is good)								
				1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
		1	Alarm Restores								
		2	Telephone Fault								
		3	Start Download								
		4	Fail to Communicate, Data Lost								
		5-8	Reserved								

LOC	PG	SEG	DESCRIPTION	PARTITION							
12	16		REPORTING EVENTS TO PAGER (Phone line is good)								
				1	2	3	4	5	6	7	8
		1	Alarms								
		2	Open / Close								
		3	Bypass								
		4	Zone Trouble								
		5	Power Trouble (AC Fail or Low Battery)								
		6	Siren & Telephone Fault								
		7	Test Reports								
		8	Program, Download & Log Full								
		9	Tampers								
		10	Short Circuit & Ground Fault								
		11	Sensor Lost								
		12	Sensor Low Battery								
		13	Expander Trouble								
		14	Fail to Communicate								
		15	Zone Activity Monitor								
		16	Reserved								
13	17		REPORTING SPECIAL EVENTS TO PAGER (Phone line is good)								
				1	2	3	4	5	6	7	8
		1	Alarm Restores								
		2	Telephone Fault								
		3	Start Download								
		4	Fail to Communicate, Data Lost								
		5-8	Reserved								

NOTES

XIII. *SPECIFICATIONS*

OPERATING POWER

12VDC Supplied from NX4, NX6, NX8, NX8E or NX-320

POWER CONSUMPTION

Standby w/ Service LEDs disabled	70mA Max
Standby w/ Service LEDs enabled	90mA Max
Transmission Burst (<1 second)	1300mA Max

OPERATING TEMPERATURE   32 to 120 degrees F

DIMENSIONS

2.40" Wide

4.40" High

1.20" Deep

SHIPPING WEIGHT

1 lb.

CADDX CONTROLS, INC.
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