NetworX NX Series Receiver Modules

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Installation Instructions

Product Summary

The NX-Series Receiver Modules (8-zone NX-408, 16-zone NX-416, and 48-zone NX-448) add wireless capabilities to the Caddx[®] NetworX NX-8 control panel. Adding a receiver module makes NX-8 control panels compatible with NX wireless transmitters and keychain touchpads (keyfobs).

The receiver modules mount inside the NX-8 cabinet and require just three wire connections for power and data communications to the NX-8 motherboard.

Installation Guidelines

Use the following guidelines when installing receiver modules:

- Leave at least 10" above the control panel for the mod-ule's antennas.
- Avoid areas that are likely to expose the module to moisture.
- Avoid areas with excessive metal or electrical wiring, including furnace and utility rooms.

Installing the Receiver Module

The following steps describe mounting the circuit board edge guide standoff, securing the module to the cabinet, and inserting the antennas.

CAUTION: You must be free of static electricity before handling circuit boards. Touch a bare metal surface or wear a grounding strap to discharge yourself.

After mounting the NX-8 cabinet, install the ground 1) plane screws, washers, and nuts (included) in the holes on top of the cabinet (see Figure 1).



Figure 1. Installing the Ground Plane Screws, Washers, and Nuts

2) Install the circuit board edge guide standoff in the lower mounting hole, in either of the two spaces located just to the left of the NX-8 motherboard (see Figure 2). Do not tighten the standoff at this time.



Figure 2. Installing the Circuit Board Edge Guide Standoff

 Install the module into the cabinet by turning the standoff sideways, then slide the module up onto the ground plane screw posts (see Figure 3).



Figure 3. Installing the Module into the Cabinet

- 4) Turn the standoff so the slot is facing up, insert the back corner of the module into the standoff slot, then press up at the front of the standoff and tighten the standoff screw.
- Insert the antennas through the holes on top of the cabinet and into the module antenna sockets (see Figure 4).



Figure 4. Inserting the Antennas

Wiring, Module Number DIP Switch Settings, and Power Up

The following steps describe wiring the module to the NX-8, setting the module number DIP switches, and powering up the NX-8.

- 1) Remove power (if applied) from the NX-8 control panel.
- **CAUTION:** To avoid possible equipment damage or personal injury, remove power from the NX-8 control panel before making any wiring connections to the module.
- Connect the module power and data terminals to the NX-8 power and data terminals using 22-gauge or larger, stranded wire (see Figure 5).



Figure 5. Wiring the Module Power and Data Terminals to the NX-8 Power and Data Terminals

3) Set the module DIP switches to the desired module number (see Table 1).

Table 1. NX Module Number Settings



4) If using a NX-408 or NX-416, set DIP switch 3 to enable zone blocks for transmitter learning as follows:
OFF = zones 9-16 or 9-24 enabled for learning
ON = zones 1-8 or 1-16 enabled for learning

5) Apply power to the NX-8. The middle (red) LED on the module should start blinking. Table 2 describes the module's status based on LED conditions.

Table 2. Module Status Conditions

LED	Module Status
Red-blinking	Normal data communication with NX-8.
Red-off	No data communication with NX-8. Check wiring and power source.
Green-blinking	Receiving radio signals from Learn Mode wireless sensors.
Green-off	No radio signals currently being received.

Note: The red LED at the bottom of the module may emit a dim glow but is not used as an indicator and can be ignored.

Programming

This section describes the following programming steps:

- Determine Programming Settings—provides tables to record wireless transmitter and partition settings.
- Enroll the Module—sets up the module to be supervised by the NX-8 control panel.
- Program the Module—puts the module into program so you can program transmitters and enter the settings for transmitters and partitions.

Determine Transmitter Settings

When programming wireless transmitters into the module, there are various options and partitions you can set for each transmitter. These settings appear in segments of each programming location.

Check the desired boxes in the programming worksheet table (Table 3) on pages 4 through 8 to determine the option and partition settings for each transmitter zone. This gives you all the programming information in one place and helps speed up the programming process.

Note: The default settings shown for Segments 1 and 2 in Location 1 (Zone 1) apply to all zone locations 1 through 48.

Special Settings for Door/Window Transmitters and Wireless Smoke Detectors

Use the following guidelines when setting features 3 and 4 for door/window transmitters and wireless smoke detectors.

Feature 3—Input Option 1

For door/window transmitters, turn on this feature to disable the transmitter's internal reed switches. For wireless smoke detectors with tamper switches, turn on this feature to enable the tamper feature.

- **Note:** Feature 3—Input Option 1, must be off (disabled) when using wireless smoke detectors without tamper switches.
- Feature 4—Input Option 2

For door/window transmitters that use a normally open external contact, leave this feature off (N/O). For door/window transmitters that use a normally closed external contact, turn this feature on (N/C).

Location	Segment 1	Segment 2
0 (Supervi- sion)	1 - Normalhrs. (0 - 255 hours; default = 24 hours)	Firehrs. (0 - 255 hours; default = 4 hours)
1 (Zone 1) Assigned to module #	 1 - Enable sensor I (default = off) 2 - Supervised I (default = on) 3 - Input option 1 I (default = off) 4 - Input option 2 I (default = off) 5 - Xmitter not lost* I (default = off) 6 - Low battery* I (default = off) 7 - Last signal good* I (default = off) 8 - Not used* (*Read only location) 	Partition 1 keyfob (default = on) Partition 2 keyfob (default = off) Partition 3 keyfob (default = off) Partition 4 keyfob (default = off) Partition 5 keyfob (default = off) Partition 6 keyfob (default = off) Partition 7 keyfob (default = off) Partition 8 keyfob (default = off)
2 (Zone 2) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* C - Low battery* T - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
3 (Zone 3) Assigned to module #	 Enable sensor Supervised Input option 1 Input option 2 S - Xmitter not lost* C - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
4 (Zone 4) Assigned to module #	 Enable sensor Supervised Input option 1 Input option 2 Source and the sensor The sensor	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob

Location	Segment 1	Segment 2
5 (Zone 5) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
6 (Zone 6) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
7 (Zone 7) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
8 (Zone 8) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
9 (Zone 9) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob

Table 3.	Module	Programming	Worksheet '	Table
	(cont.)			

Location	Segment 1	Segment 2	Location	Segment 1	Segment 2
10 (Zone 10) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	15 (Zone 15) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
11 (Zone 11) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 Thus option 2 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	16 (Zone 16) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 Thus option 2 Xmitter not lost* A clow battery* A clow battery* To clow battery* A clow	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
12 (Zone 12) Assigned to module #	 Enable sensor Supervised - Supervised - Input option 1 - Input option 2 - Xmitter not lost* - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	17 (Zone 17) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob
13 (Zone 13) Assigned to module #	 1 - Enable sensor □ 2 - Supervised □ 3 - Input option 1 □ 4 - Input option 2 □ 5 - Xmitter not lost* □ 6 - Low battery* □ 7 - Last signal good* □ 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	18 (Zone 18) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob
14 (Zone 14) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 Thus option 2 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	19 (Zone 19) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob

Location	Segment 1	Segment 2	Location	Segment 1	Segment 2
20 (Zone 20) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	25 (Zone 25) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
21 (Zone 21) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	26 (Zone 26) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
22 (Zone 22) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	27 (Zone 27) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
23 (Zone 23) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	28 (Zone 28) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
24 (Zone 24) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	29 (Zone 29) Assigned to module #	 Enable sensor Supervised - Supervised - Input option 1 - Input option 2 - Xmitter not lost* - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob

Table 3.	Module	Programming	Worksheet Tal	ble
	(cont.)			

Location	Segment 1	Segment 2	Location	Segment 1	Segment 2
30 (Zone 30) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	35 (Zone 35) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* C - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
31 (Zone 31) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	36 (Zone 36) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob
32 (Zone 32) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	37 (Zone 37) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob
33 (Zone 33) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	38 (Zone 38) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob
34 (Zone 34) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	39 (Zone 39) Assigned to module #	 Enable sensor I Supervised I Input option 1 I Input option 2 I Xmitter not lost* I Low battery* I Last signal good* I Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob

Location	Segment 1	Segment 2	Location	Segment 1	Segment 2
40 (Zone 40) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S - Xmitter not lost* - Low battery* - Last signal good* 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	45 (Zone 45) Assigned to module #	 Enable sensor Supervised Supervised Input option 1 Input option 2 S-Xmitter not lost* C-Low battery* T-Last signal good* Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
41 (Zone 41) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	46 (Zone 46) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob
42 (Zone 42) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	47 (Zone 47) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
43 (Zone 43) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob	48 (Zone 48) Assigned to module #	 1 - Enable sensor I 2 - Supervised I 3 - Input option 1 I 4 - Input option 2 I 5 - Xmitter not lost* I 6 - Low battery* I 7 - Last signal good* I 8 - Not used* (*Read only location) 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob Partition 8 keyfob
44 (Zone 44) Assigned to module #	 1 - Enable sensor 2 - Supervised 3 - Input option 1 4 - Input option 2 5 - Xmitter not lost* 6 - Low battery* 7 - Last signal good* 8 - Not used* 	Partition 1 keyfob Partition 2 keyfob Partition 3 keyfob Partition 4 keyfob Partition 5 keyfob Partition 6 keyfob Partition 7 keyfob Partition 8 keyfob	49 (Trans- mitter to be programmed)	None	None

(*Read only location)

Table 3.	Module Programming	g Worksheet	Table
	(cont.)		

Location	Segment 1
50 (All default off)	 Keyfob user ID □ (off = all keyfobs report as user 99; on = keyfob reports as its learned zone) Enable jam detect □ Enable antenna tamper (Only selectable on Inter- national versions, reports as <i>box</i> <i>tamper</i>) □ Enable auto advance to next zone number □ Enable partition 1 audible program- ming beeps □ Not used
51 (Default = 0)	Starting zone number for receiver $0 = 1*$ (default) \Box $1 = 9 \Box$ $2 = 17 \Box$ $3 = 25 \Box$ $4 = 33 \Box$ $5 = 41 \Box$ (* When set to 0, the starting zone number is determined by DIP switch 3 setting.)

Enroll the Module

The following steps describe how to enroll and program the module to be supervised by the NX-8.

- With power applied and the system disarmed, enter [*]
 [8] at the keypad. The five function lights should start flashing.
- Enter the "Go To Program Code" (factory default is 9 7 1 3). The service light should flash and the five function lights should change from flashing to on steady.
- 3) Enter [0] [#], where [0] is the NX-8 control panel number and [#] is the entry key. The Armed LED should turn on, indicating the control panel is waiting for a programming location entry.
- Enter [9] [1] [5] [#] to enroll the module for supervision. The keypad sounder should beep three times indicating the NX-8 has accepted the enrolling request.
- 5) Exit program mode by entering [EXIT] [EXIT]. The Service LED on the NX-8 turns on, indicating the con-

trol panel is enrolling the module. After about 12 seconds, the service LED should turn off.

Program the Module

The following steps describe how to get the module into program mode, load factory defaults if installing a new system, and program transmitters into memory.

Programming Guidelines

- When a transmitter is learned into memory, the module claims a block of eight zones around that number (1-8, 9-16, 17-24, etc.). For example, learning a transmitter into zone 13 automatically claims the zone block of 9 through 16. Only wireless transmitters can now be assigned to these zones.
- Do not learn wireless transmitters into a zone block claimed by a hardwire expander or the panel.
- If two modules are installed, they cannot share the same zone block. For example, wireless transmitters learned into zones 11 and 12 must reside in one module.

Fill in Table 4 to help keep track of zone block module assignments. Be sure to circle the module type; RM = receiver module, HE = hardwire expander, P = panel.

Zone Block	Assigned To Module
1 - 8	RM HE P #
9 - 16	RM HE P #
17 - 24	RM HE P #
25 - 32	RM HE P #
33 - 40	RM HE P #

Table 4. Zone Block Module Assignments

To program the module:

41 - 48

 Enter [*] [8] at the keypad. The five function lights should start flashing.

RM HE P #

- Enter the "Go To Program Code" (factory default is 9 7 1 3). The service light should flash and the five function lights should change from flashing to on steady.
- 3) Enter [XX] [#], where [XX] is the DIP switch setting module number and [#] is the entry key. The Armed LED should turn on, indicating the control panel is waiting for a programming location entry.
- For new installations, enter [9] [1] [0] [#] to load factory defaults and clear any unwanted information in memory before any further programming.

- 5) Enter [4] [9] [#] to enter the sensor learning location. The Ready LED should turn on and the Armed LED should turn off.
- 6) Enter [XX] [*], where [XX] is a zone number (1 through 48) and [*] is the entry key.
- **Note:** Three beeps from the keypad indicates an entry error. This occurs if you enter a transmitter number that is not within the module's zone block or if you try learning a sensor that is already learned into the module.

If you change your mind about your entry, you can terminate programming by entering [4] [9] [#] [0] [*]. Then, start again from step 5.

 Trip the desired transmitter (within 250 seconds) as described in Table 5. Listen for the 'ding dong' for confirmation.

Table 5.	. Tripping	Transmitters	for	Learning
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Transmitter	Action		
Door/Window, Shock, Glass Guard, Freeze	Activate tamper switch by removing cover.		
Door/Window with Exter- nal Contact	Activate tamper switch by removing cover. (Note: Feature 3—Input Option 1, must be on.)		
Recessed Door/Window	Activate tamper switch by removing circuit board until tamper switch is exposed.		
Micro Door/Window	Slide the battery about half-way out of the battery holder, then back.		
PIR	Activate tamper switch by removing back plate from PIR.		
Smoke Detector	Press and hold the test but- ton.		
Heat Detector	Press, then release the tamper switch.		
Fire Pull	Activate tamper switch by removing sensor cover.		
Single Button Panic	Press and hold the button.		
Dual Button Panic	Press and hold both but- tons together.		

Table 5. Tripping Transmitters for Learning

Transmitter	Action
Keyfobs	Press and hold the arm and disarm buttons together.
Repeater	Press, then release the tamper switch.

8) Program remaining transmitters by repeating steps 5-7.

9) Exit program mode by entering [EXIT] [EXIT].

Program Transmitter and Partition Settings

This section describes programming guidelines, how to change the supervision windows, and program the transmitter and partition settings using the information you entered in the Table 3 programming worksheets.

Changing the Transmitter Supervision Windows

- **Note:** For UL Listed installations, the normal supervision window must be set to 24 hours and the fire supervision window must be set to 4 hours.
- **CAUTION:** Do not set the normal or fire supervision windows to 1 hour. This causes false trouble reports from all learned wireless transmitters.
- 1) Enter [*] [8] at the keypad. The five function lights should start flashing.
- Enter the "Go To Program Code" (factory default is 97 1 3). The service light should flash and the five function lights should change from flashing to on steady.
- 3) Enter [XX] [#], where [XX] is the DIP switch setting module number and [#] is the entry key. The Armed LED should turn on, indicating the control panel is waiting for a programming location entry.
- 4) Enter [0] [#] to enter location 0, segment 1.
- 5) Enter the new normal supervision time (0 255).
- **Note:** Choosing 0 sets the normal supervision window to 256 hours.
- Press [*] to save any changes and automatically enter segment 2.
- 7) Enter the new fire supervision time (0 255).
- **Note:** Choosing 0 sets the fire supervision window to 256 hours.

- 8) Press [*] to save any changes. The panel is now waiting for the next location entry.
- **Note:** Pressing [#] does not save changes to the current segment, but does save changes made in previous segments.
- 9) Enter [EXIT] [EXIT] when all changes are completed.

Programming Transmitter and Partition Settings

- 1) Enter [*] [8] at the keypad. The five function lights should start flashing.
- Enter the "Go To Program Code" (factory default is 9 7 1 3). The service light should flash and the five function lights should change from flashing to on steady.
- 3) Enter [XX] [#], where [XX] is the DIP switch setting module number and [#] is the entry key. The Armed LED should turn on, indicating the control panel is waiting for a programming location entry.
- Enter [XX] [#] to enter a location. For example, enter
 [1] [#] to enter location 1, segment 1. The Armed LED should turn on and the zone LEDs display the binary data for the current settings.
- or-- Enter [1] [#] [*] to enter location 1, segment 2.
- 5) Enter [X] [*], where [X] is the setting number (1 8) from Table 5 that corresponds to the desired feature or partition setting number and [*] is the entry key. The keypad displays the settings for that location and segment.
- 6) Press the keypad button that corresponds to the feature number you want changed. Lights corresponding to the feature number turn on or off each time the button is pressed. Lights that turn on indicate the feature is on, lights that turn off indicate the feature is off.

For example, turn on transmitter features 1 (Transmitter Enabled) and 3 (Input Option 1) by pressing [1] [3]. The 1 and 3 LEDs turn on to indicate the features are turned on and the Ready LED flashes to indicate the change request.

- 7) Press [*] to enter the changes and automatically advance to segment 2.
- **Note:** Pressing [#] does not save changes to the current segment, but does save changes made in previous segments. Repeat steps 4 7 to reenter and make changes to a location and segment.
- 8) Press the keypad button that corresponds to the partition number you want changed. Lights corresponding to the partition number turn on or off each time the button is pressed. Lights that turn on indicate the keyfob is active in that partition, lights that turn off indicate the keyfob is inactive.

- Repeat steps 4 8 to continue programming transmitter partition settings.
- 10) Enter [EXIT] [EXIT] when finished.

Deleting Transmitters

The following steps describe how to delete transmitters from the module.

This procedure makes the module ignore a transmitter but does not remove transmitter identification from the module's memory. The transmitter can be reactivated later or a new one can be learned into the zone.

- 1) Enter [*] [8] at the keypad. The five function lights should start flashing.
- Enter the "Go To Program Code" (factory default is 9 7 1 3). The service light should flash and the five function lights should change from flashing to on steady.
- 3) Enter [XX] [#], where [XX] is the DIP switch setting module number and [#] is the entry key. The Armed LED should turn on, indicating the control panel is waiting for a programming location entry.
- Enter [XX] [#] to enter the zone location to be deleted. The Armed LED should turn on and the zone LEDs display the binary data for the current settings.
- 5) Change transmitter feature 1 (Transmitter Enabled) by pressing [1]. The 1 LED turns off to indicate the feature change and the Ready LED flashes to indicate the change request.
- 6) Enter [*] [#]. The Ready LED stops flashing, indicating the new settings are stored in memory and the system automatically exits from that location.
- 7) Continue deleting transmitters by entering the desired locations and segments in steps 4 through 6.
- *or*-- Enter [9] [1] [0] [#] to delete all transmitters and load factory defaults.
- 8) Enter [EXIT] [EXIT] when finished.

Testing Wireless Transmitters

Test all transmitters to verify correct programming and operation, using the steps below.

- 1) Trip a transmitter (open a door, walk in front of a PIR, etc.).
- 2) Enter [*] [8] at the keypad. The five function lights should start flashing.
- Enter the "Go To Program Code" (factory default is 9 7 1 3). The service light should flash and the five function lights should change from flashing to on steady.
- 4) Enter [XX] [#], where [XX] is the DIP switch setting module number and [#] is the entry key. The Armed LED should turn on, indicating the control panel is waiting for a programming location entry.

- 5) Enter the tripped transmitters' location.
- 6) Observe keypad light 7 which should be on, indicating the transmitters' signal is good.If keypad light 7 is off (transmitter test below margin), exit program mode and repeat steps 1-6 above.

Troubleshooting

Any transmitters that consistently test below margin should be rotated in mounting position $(90^\circ, 180^\circ, \text{ or } 270^\circ)$ and retested.

If rotating the transmitter mounting position does not improve signal reception or is not practical, move the transmitter to different locations near the desired mounting area. Test each location until the transmitter consistently tests good, then mount the transmitter.

Specifications

Compatibility: NX-8 control panel

Frequency: 319.5 MHz (NX-408, NX-416, & NX-448) 433 MHz (NX-408-I, NX-416-I, & NX-448-I)

Required Power: 12.0 VDC (provided by panel)

Current Draw: 20 mA maximum

Operating Temperature Range: 32° to 120°F

Dimensions: 4.65" x 3.20" (L x W)

U.L. Listings

The NetworX NX Series Receiver Modules (60-732) are U.L. Listed for UL1023 Household Burglary, UL985 Household Fire, and are listed for use with the following U.L. Listed devices:

NX-451 Door/Window Sensor (60-670-95R) NX-470 4-Button Keychain Touchpad (60-659-95R) NX-475 Water-Resistant Pendant Panic Button (60-578) NX-480 PIR Motion Sensor (60-639-95R) NX-490 Wireless Smoke Sensor (60-506)

Notices

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference that may be received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Interactive Technologies, Inc. can void the user's authority to operate the equipment.



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