

NX-181xx NetworX Voice keypad with touch buttons Installation Manual

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Important information

Limitation of liability

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Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, UTCFS assumes no responsibility for errors or omissions.

Advisory messages

Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

WARNING: Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

Caution: Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

Note: Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

Keep in mind, the level of security you will obtain with this system relates specifically with two major factors:

- The quantity, quality, and placement of security devices attached to this security system.
- The knowledge you have of the security system and how that knowledge is utilized in a weekly test of the complete system.

This product is to be installed by qualified SERVICE PERSONNEL only.

The equipment should only be operated with an approved power adapter with insulated live pins.

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of batteries according to the instructions. Contact your service provider for replacement batteries.

Disclaimer

A level of TCP IP knowledge is required by the installer/s to set up some of the NX-181xx functionality. UTCSF limits it support to NX-181xx setup only, and is unable to offer further assistance on your client's DSL modem, router, firewall or any other 3rd party software. Please consult your customers IT department or qualified IT professional about implementing this product onto your client's network.

Warranty

UTC Fire & Security Americas Corporation, Inc. guarantees this product against defective parts and workmanship for twenty-four (24) months from the date of purchase. If any defect appears during the warranty period contact your service provider. UTC Fire & Security Americas Corporation, Inc. assumes no liability for consequential or indirect damage, and accepts no responsibility for repairing damage to the product caused by misuse, careless handling, or where repairs have been made by others.

No other guarantee, written or verbal, is authorized by UTC Fire & Security Americas Corporation, Inc.

Installation

Remove the cap that's covering the locking mechanism, this is located on the bottom of the NX-181xx. With the cap removed you now have access to the locking mechanism that secures your NX-181xx to its mounting plate. Insert a small flat head screwdriver until it is located under the locking tongue.

Whilst turning either clockwise or counter clock wise, slide the NX-181xx down and clear of the locking tongue, you can now remove the NX-181xx from its mounting bracket. Use the fixings supplied to secure the mounting plate to the wall. The top of the NX-181xx will be 9 mm above the top of mounting bracket after it is locked back in place.

Figure 1: NX-181xx mounting



Figure 2: Rear view showing cable header pins



Wiring Structure Note



Note: Both the audio line and data bus line can either be star or daisy chain wired. A maximum of 8 NX-181xx Voice keypads can be configured as room stations for intercom functionality. Two pairs of twisted cable (4 conductors) are required for the audio line, one pair for audio line A and another for audio line B.

Recordings are transferred between NX-181xx Voice keypads via the audio lines and a communication cable was specifically designed to transfer these recordings in installations that do not have dedicated audio cables installed, please contact your local Interlogix office for further details.

The audio line is not connected to the security panel.

Advanced System Configuration



[1] Keypad configuration: This sub menu allows you to program the address, partition and room numbers of each keypad, along with other selectable options.

[2] Panel & device configuration: This is your access point to all devices that are on the bus network, such as the control panel, radio receivers, output modules etc.

[3] Service provider phone number: This is the phone number you wish your clients to call for servicing, this number will be announced each arming and disarming cycle whilst a system fault is present.

Step	Advanced system configuration – Keypad configuration						
1.	[MENU]-[0]	Selects main menu - Option 0, Advanced system configuration.					
		 Enter your code, touch menu to exit. 					
2.	[?]-[?]-[?]-[?]	Enter your 4 or 6 digit Programming code.					
		Touch 1 for Keypad Configuration.					
		Touch 2 for panel and device configuration.					
		Touch 3 to configure service provider phone number.					
		Touch menu to exit.					
3.	[1]	Selects Keypad configuration.					
		 Announcement (all keypad options are announced) 					
4.	[?]	Select one of the keypad options (shown in tables below).					
Next	[MENU]	Moves back to step 3, Advanced system configuration selection.					
Next	[MENU]	Exits from Advanced system configuration.					

When programming Advanced system configuration > Keypad configuration choose the option you wish to program from 1 to 8 (shown below) at step 4. All keypads should be defaulted prior to programming (option 0).

[1]	Option 1 - Keypad numbering
	 Keypad number is ?, select a keypad number, touch menu to go back
[?]	Enter the keypad number
	 Keypad number is ?, select a keypad number, touch menu to go back
[MENU]	Moves back to step 4, keypad option selection
[2]	Option 2 - Keypad Partition number
	 Keypad partition number is ?, select a keypad partition number, touch menu to go back.
[?]	Enter the keypad partition number.
	Keypad partition number is ?, select a keypad partition number, touch menu to go back.
	[1] [?] [MENU] [2] [?]

6.	[MENU] N	Moves back to step 4, keypad option selection.
4.	[3]	Option 3 - Keypad Room number
		Keypad room number is ?, select a keypad room number to configure, touch menu to go back.
5.	[?]	Enter the keypad room number.
		Keypad room number is ?, select a keypad room number to configure, touch menu to go back.
6.	[MENU]	Moves back to step 4, keypad configuration.
4.	[4]	Option 4 - Keypad Starting Zone
		 Keypad starting zone is ?, select a keypad starting zone followed by enter, touch menu to go back.
5.	[?] [ENTER]	Enter the keypad starting zone
		 Keypad starting zone is ?, select a keypad starting zone followed by enter, touch menu to go back.
6.	[MENU]	Moves back to step 4, keypad option selection
4.	[5]	Option 5 - Number of hours to Auto Test
		 Hours before next auto test is ?, select hours before next auto test followed by enter, touch menu to go back.
5.	[?] [ENTER]	Enter the hours till next auto test.
		 Hours before next auto test is ?, select hours before next auto test followed by enter, touch menu to go back.
6.	[MENU]	Moves back to step 4, keypad option selection.
4.	[6]	Option 6 - Advanced keypad Configuration
		 Keypad option ? is enabled, keypad option ?is enabled Select from options 1 to 8 for advanced keypad configuration, touch menu to go back.
5.	[?]	Toggle options 1 to 8 On or Off
		 Keypad option ? is enabled / disabled, keypad option ? is enabled Select from options 1 to 8 for advanced keypad configuration, touch menu to go back.
	0	View partition LEDs for option selection confirmation. Refer to the Table 1 below for descriptions.
6.	[MENU]	Moves back to step 4, keypad option selection.

Table 1: Advanced keypad configuration options

1	Enable keypad tamper switch	5	Status key read message when armed suppression
2	Entry / exit beeps suppression	6	Enable three second beeps on emergency keys before alarm
3	Stay arming key suppression	7	Enable Zone Leds 1 – 8 in lieu of partition Leds 1 - 8
4	Reserved	8	Enable multi partition keypad

4.	[7]	Option 7 - Touch sense control (see note below)						
		 Touch sensitivity is ?, select sensitivity from 51 to 255 followed by enter, touch menu to go back. 						
5. [?] [ENTER]		Enter the required sensitivity level. 51 = more sensitive, 255 = less sensitive						
		 Touch sensitivity is ?, select sensitivity from 51 to 255 followed by enter, touch menu to go back. 						
6.	[MENU]	Moves back to step 4, keypad option selection.						
4.	[0]	Option 0 - To Default keypad						
		 Touch mute to confirm, touch menu to exit. 						
F		Selects to Default keypad.						
э.	[INIO I E]	WARNING: this will default the keypad you are currently programming.						
	Automatic	ally Moves back to step 4, keypad option selection						

All NX-181xx Voice keypads must be individually addressed for proper security operation and must have individual room numbers assigned to enable intercom functionality.

Option 7, touch sense control, is the sensitivity setting for the NX-181xx to go from idle mode to run mode on the first touch. The setting options are from 51 milliseconds to 255 milliseconds, 51 being more sensitive and 255 being less sensitive. The default setting is set to 150 milliseconds

Run mode sensitivity is fixed at 50 milliseconds.

Panel and Device Configuration

Step	Advanced system configuration – Panel and device configuration						
1.	[MENU]-[0]	Selects main menu - Option 0, Advanced system configuration.					
		 Enter your code, touch menu to exit. 					
2.	[?]-[?]-[?]-[?]	Enter your 4 or 6 digit Programming code.					
		 Touch one for keypad configuration, touch two for panel and device configuration, touch three to configure service provider phone number, touch menu to exit. 					
3.	[2]	Selects Panel and device configuration.					
		 Select a device number followed by enter, touch menu to go back. 					
4.	[?] [ENTER]	Select the device you wish to program.					
		 Selected device? is connected, select a feature number followed by enter, touch menu to go back. 					
5.	[MENU]	Moves back to step 4, select a device number.					
6.	[MENU]	Moves back to step 3, Advanced system configuration selection.					
7.	[MENU]	Exits from Advanced system configuration.					

When in device programming:

Feature number then [ENTER], to move to the feature you wish to program.

Touch [MENU] to accept changes and move to the next segment.

Touch [ENTER] to exit the feature.

Touch [MENU] three times to exit device programming.

Service provider phone number

Step	Advanced sy	ystem configuration – Service provider phone number						
1.	[MENU]-[0]	Selects main menu - Option 0, Advanced system configuration.						
		Enter your code, touch menu to exit.						
2.	[?]-[?]-[?]-[?]	Enter your 4 or 6 digit Programming code.						
		Touch 1 for Keypad Configuration.						
		Touch 2 for panel and device configuration.						
		 Touch 3 to Configure Service Provider Phone Number. 						
		Touch menu to exit.						
3.	[3]	Selects service provider phone number.						
		Service provider phone number is disabled, select a new service provider phone number followed by enter, touch menu to go back.						
4.	Phone Number	Enter the service provider phone number.						
5.	[ENTER]	Accepts the phone number entered.						
		Service provider phone number is enabled as Phone number, select a new service provider phone number followed by enter, touch zero followed by enter to disable service provider phone number, touch status to review service provider phone number, touch menu to go back.						
6.	[MENU]	Moves back to step 3, Advanced system configuration selection.						
7.	[MENU]	Exits from Advanced system configuration.						

Quick NX-181xx programming guide

Default keypad:

[MENU] [0] > [Programming code] > [1] [0] > [MUTE] > [MENU] > [MENU]

Record user names: Speak to record, 2.0 seconds recording time

[MENU] [8] > [Master code] > [3] > [1] [ENTER]

6	[TALK]	训	[ENTER]	User 1			
6	[TALK])))	[ENTER]	User 2			
6	[TALK]	训	[ENTER]	User 3			
6	[TALK]	训	[ENTER]	User 4			
6	[TALK]	训	[ENTER]	User 5			
6	[TALK]	训	[ENTER]	User 6			
6	[TALK]	训	[ENTER]	User 7			
6	[TALK]	IJ	[ENTER]	User 8			

Touch [MENU] [MENU] to exit.

Record zone names:	-)))	Speak to record, 2.7 seconds recording tim	ne
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[MENU] [8] > [Master code] > [4] > [1] [ENTER]

4	[TALK]	训	[ENTER]	Zone 1			
1	[TALK]	训	[ENTER]	Zone 2			
-	[TALK]	训	[ENTER]	Zone 3			
4	[TALK]	训	[ENTER]	Zone 4			
1	[TALK]	训	[ENTER]	Zone 5			
ŕ	[TALK]	训	[ENTER]	Zone 6			
6	[TALK]	训	[ENTER]	Zone 7			
6	[TALK]	· 1))	[ENTER]	Zone 8			

Touch [MENU] [MENU] to exit.

Copying recorded messages from one NX-181xx to another, requires the connection of the audio line between NX-181xx Voice keypads.

Domestic dial phone numbers 1, 2 and 3:

[MENU] [6] > [Master code]

[1]	[Phone number one]	[ENTER]	> [MENU]	
[2]	[Phone number two]	[ENTER]	> [MENU]	
[3]	[Phone number three]	[ENTER]	> [MENU]	

Touch [MENU] [MENU] to exit.

Word Library

1	One	39	Boat	77	Gun	115	5 Remote	
2	Two	40	Cabinet	78	Hall	116	Roof	
3	Three	41	Car park	79	Hallway	117	Room	
4	Four	42	Ceiling	80	Heat	118	Rumpus	
5	Five	43	Cellar	81	Heating	119	Safe	
6	Six	44	Child's	82	Hold-up	120	Security	
7	Seven	45	Alert	83	Home	121	Sensor	
8	Eight	46	Closet	84	Home theatre	122	Shed	
9	Nine	47	Computer	85	Infrared	123	Shock	
10	Ten	48	Cool	86	Inside	124	Shop	
11	Eleven	49	Curtain	87	Instant	125	Side	
12	Twelve	50	Data	88	Interior	126	Skylight	
13	Thirteen	51	Den	89	Key switch	127	Sliding	
14	Fourteen	52	Detector	90	Keychain	128	Small	
15	Fifteen	53	Dining	91	Kitchen	129	Smoke	
16	Sixteen	54	Door	92	Large	130	South	
17	Seventeen	55	Downstairs	93	Laundry	131	Stairs	
18	Eighteen	56	Driveway	94	Lift	132	Storage	
19	Nineteen	57	Duress	95	Light	133	Study	
20	Twenty	58	East	96	Living	134	Temperature	
21	Thirty	59	emergency	97	location	135	tennis	
22	Forty	60	Exterior	98	Master	136	Toilet	
23	Fifty	61	Family	99	Medicine	137	Training	
24	Sixty	62	Fan	100	Meeting	138	ΤV	
25	Seventy	63	Fence	101	Motion	139	Upstairs	
26	Eighty	64	Fire	102	Night	140	User	
27	Ninety	65	Forced, arm	103	North	141	Utility	
28	Hundred	66	Foyer	104	Nursery	142	Volt	
29	Thousand	67	Freezer	105	Office	143	Veranda	
30	Air conditioner	68	Front	106	Output	144	Wall	
31	Area	69	Games	107	Outside	145	Warehouse	
32	Attic	70	Garage	108	Panic	146	Water	
33	Automatic	71	Gas	109	Pantry	147	West	
34	Auxiliary	72	Gate	110	Partial	148	8 Window	
35	Back	73	Glass	111	Perimeter	149	Windows	
36	Basement	74	Glass break	112	Pool	150	Wireless	
37	Bathroom	75	Ground	113	Rear	151	Yard	
38	Bedroom	76	Guest	114	Reception	152	Zone	
						153	Gym	

Cable Requirements

Panel bus

Table 2	2: Maxin	num wire	run
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Length in feet	Wire gauge when connected to panel	Wire gauge when connected to remote PSU
250	24	22
500	20	18
1000	18	16
1500	16	14
2500	14	12

These numbers are for one keypad at the end of the wire. When connecting more than one keypad to the end of the wire, a higher gauge wire or a reduction in total wire distance will be required. Star or daisy chain wiring configuration allowed.

Audio line

A maximum of 8 NX-181xx Voice keypads can be configured as room stations for intercom functionality. Two pairs of twisted cable (4 conductors) are required for the audio line, one pair for audio line A and another for audio line B. Maximum total wire run is 100 meters using 2 x twisted pairs. Star or daisy chain wiring configuration allowed.

Note: Both the audio line and data bus can either be star or daisy chain wired.

Note: Additional power required pending total current draw of system.

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

Specifications

Voltage	12 VDC regulated
Current maximum without voice	(averaged over 200 ms) 140 mA 110 mA
Dimensions (W × H × D)	80 × 120 × 16 mm
Operating temperature	0 to 50°C
Shipping weight	100 g