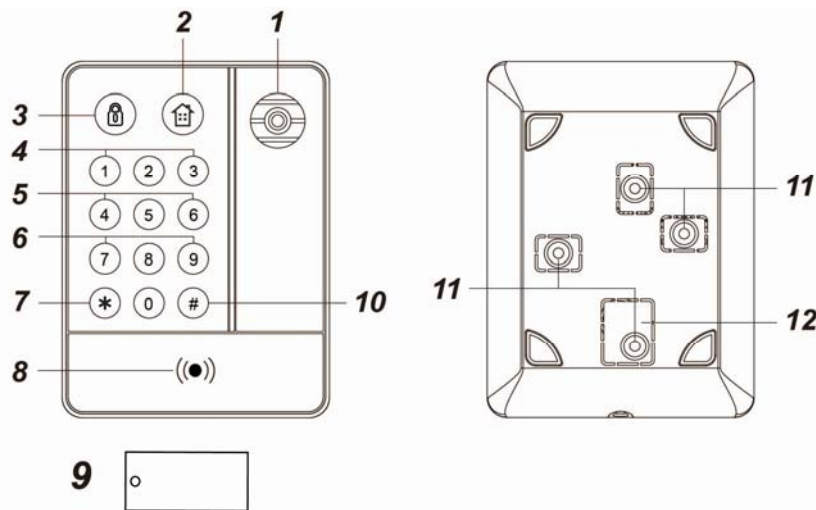


REMOTE KEYPAD with NFC Tag (KPT-32N, KPT-32N-F1)

April 01st, 2016

● Identifying the Parts



1. Siren

2. Orange LED: Home Arm Key

3. Red LED: Away Arm Key

4. Panic Alarm (if enabled)

- Press both 1 and 3 to trigger panic alarm

5. Fire Alarm (if enabled)

- Press both 4 and 6 to trigger fire alarm

6. Medical Alarm (if enabled)

- Press both 7 and 9 to trigger Medical alarm

7. * Key

- Enter Keypad PIN Code + * Key to enter Test Mode.

8. Keypad Sensor (for tag)

9. NFC Tag

10. # Key

11. Mounting Holes

12. Tamper Switch

<NOTE>

-  A short beep will sound along with key pressing to indicate that the button pressed is valid.
-  A long beep will sound along with key pressing to indicate successful command.
-  4 continuous beeps will sound indicating mistake and the user should repeat the process again.
-  Backlight will be ON for any key pressed or command sent from the Keypad.

● LED Indicator

● Red LED (Away Arm Key)

- **Red LED on:** the system is in **Test Mode**.
- **Red LED:** Red flashes, and Backlight on in the **Away Arm Mode**.
- **Red LED flash** with 4 beeps: failure due to the following reasons:
 - No response from the control panel.
 - Request for **Home mode** during **Arm mode**.
 - Request for **Force arm**.

● Orange LED (Home Arm Key)

- **Orange LED:** Orange flashes and backlight on in the **Home Mode**.
- **Orange LED flashes for 5 seconds:** low battery in Normal Operation Mode, and Tamper open.
- **LED flash** with 4 beeps: failure due to the following reasons:
 - No response from the control panel.
 - Request for **Home mode** during **Arm mode**.
 - Request for **Force arm**.

<NOTE>

- ☞ When Arm/Home, Red/Orange LED will turn off after successful completion of a valid keystroke sequence, or when the pause in between Control panel User code/PIN code keystrokes exceeds 2 seconds along with 4 beeps.
- ☞ If Arm/Home button is pressed but no Control Panel User Code/PIN code is entered, in 5 seconds the keypad will enter sleep mode.

● **Built-in Siren**

- I. Exit Delay — the Remote keypad continuously beeps. If enter Arm mode or Home Mode, Remote Keypad will emit long beep.
- II. Entry Delay — The Remote keypad continuously beeps. When entering Disarm Mode, the Remote Keypad will emit 2 beeps.
- III. Alarm siren — Siren will sound continuously when an alarm is triggered. Fire Alarm will sound 2 seconds and 1 second off.

● **Power**

- Remote keypad uses three EL123AP 3V Lithium batteries as its power source.
- Remote keypad can also detect the battery status. If the battery voltage is low, the Orange LED will flash for 5 seconds. The Low battery signal will be sent along with regular signal transmissions to the Control Panel for displaying the status accordingly.
- When the battery is exhausted, the Remote keypad will stop all function, all LED will flash every 4 seconds.

● **Power Saving Feature**

- When idle, Remote keypad is in **Stand-by** mode and uses no power. It will activate and **wake-up** for 5 second when any key is pressed or keypad sensor is detected.
- After 5 seconds of key inactivity, the power goes off and it returns to **Stand-by** mode.
- Upon completion of a command input, the power goes off and Remote keypad returns to **Stand-by** mode.

<NOTE>

You can also press and hold * and # key for 2 seconds to send learning code when Idle.

● **Test Mode**

- Remote keypad can be put into Test mode by entering the Keypad PIN code (default: **0000**) followed by “*” key along with a long beep sounding, the Red LED and backlight will turn on.
- To exit Test mode, press # key twice (long beep). Otherwise, Remote keypad will automatically exit Test mode after 5 minutes and return to Stand-by mode.

Under the Test mode, the following functions can be enabled:

- Press * key and then **1** key — to enter the Tag Management mode.
- Press * key and then **2** key — to enable Dual-key Panic Alarm function
- Press * key and then **3** key — to enable Dual-key Fire Alarm function
- Press * key and then **4** key — to enable Dual-key Medical Alarm function
- Press * key and then **5** key — to disable all Dual Key function (long beep). (**Default**)
- Press * key and then **6** key — to change the Keypad PIN Code
 1. Enter **Old** Keypad Pin Code and then press * key along with a long beep. If incorrect PIN Code is entered, they Keypad will emit 4 beeps and exit PIN Code change function. (Pressing # key will also exit PIN Code change function)
 2. Enter **New** 4-digit Keypad PIN Code and then press # key. The Keypad will emit a long beep and will exit change Keypad PIN Code function automatically.
- Press * key and then **7** key — to transmit Remote keypad learn signal with a long beep.
- Press * key and then **8** key — to enable Arm/ Home without Control Panel User Code function with a long beep. (the code is checked by panel).
- Press * key and then **9** key — to enable Arm/ Home with Control Panel User Code function with a long beep (the code checked by panel) (**Default**).
- Press “#” key **twice** — to exit Test Mode.

● **Installation Procedures**

- Step 1. Put the Control Panel into **Learning Mode**. Please refer to the Control Panel manual.
- Step 2. Enable Remote keypad to enter Test mode first. Enter the Keypad PIN code (default: **0000**) followed by * key. The **Red** LED will turns on and sound a long beep.

- Step 3. Press * key and then 7 key to transmit learn code to Control Panel. Refer to Control Panel manual to complete the learning process. If learning is successful, the Keypad will emit 3 beeps upon receiving acknowledgement signal from Control Panel.
- If the Keypad does not sound 3 beeps, please restart learning procedure from Step 1.
- Step 3. After the Remote keypad is learnt-in, put the Control Panel into **Walk Test** mode, hold the Remote keypad in the desired location, and send the learning code to the Control Panel to confirm this location is within the signal range of the Control Panel.
- Step 4. When you are satisfied that the Remote keypad works in the chosen location, you can proceed with mounting the Remote keypad following the steps described below (see **Mounting Remote keypad**).

● **Tamper Protection**

- The keypad is protected against any attempt to open the lid or to detach keypad from its mounting surface.
- Tamper protection is disabled when the keypad is in Test Mode.

● **Tag Learning/Clearing Procedures**

The Keypad is capable of storing information from NFC (Near Field Communication) tags and assigns a PIN Code to each NFC tag stored in memory. The NFC tag can then be used to control alarm system mode through the Keypad. The Keypad can learn up to 100 NFC tags with up to 50 PIN Codes.

<NOTE>

☞ The Keypad NFC tag sensor is powered on 10 seconds after inserting battery.

A. Tag Learning procedure

- Step 1. Enable Remote keypad to enter Test mode first. Enter the Keypad PIN code (default: **0000**) followed by * key. The **Red** LED will turn on and sound a long beep
- Step 2. Press * key and then **1** key to enter the Tag Learning mode.
- Step 3. Enter Control Panel User PIN code followed by # key. The Keypad will sound a beep and the Orange LED will begin to flash for 5 seconds.
- If the entered PIN Code is new, the Keypad will sound a long beep.
 - If the entered PIN Code already exists in Keypad, the Keypad will sound a short beep
- Step 4. Within 5 seconds, apply a tag to the Keypad Tag sensor zone to pair it with the User PIN Code just entered:
- Each tag paired will reset tag learning time to 5 seconds. You can pair multiple tags with a single User Code by applying the tags one by one.
 - The Keypad will exit tag learning mode after 5 seconds of inactivity.
 - If the tag learnt in is new, the Keypad will emit 2 short beeps.
 - If the tag learnt in already exists in Keypad (assigned to another PIN Code), the Keypad will emit 1 short beep.
- Step 5. To learn in another Tag, please repeat step 3 to step 4. The keypad will exit tag learning mode automatically after idling for 5 seconds.
- Step 6. Press “#” key to return to Test Mode.
- Error Condition:
 - If the Control Panel User Code entered exceeds 4 digits, the Orange LED will flash along with 4 short beeps to indicate error.
 - If the Keypad has already stored 50 Control Panel PIN Codes, the Red LED will flash along with 4 short beeps to indicate error when you attempt to enter the 51st PIN Code.
 - If the Keypad has already learnt in 100 NFC tags, the Orange LED will flash to indicate error when you attempt to learn in the 101st NFC tag.

B. Tag Clearing Procedure:

You can clear tag information.

- Step 1. Enable Remote keypad to enter Test mode first. Enter the PIN code (default: 0000) followed by * key. The Red LED turns on along with a long beep sounding.
- Step 2. Press * key and then 1 key to enter to the Tag Learning mode.
- Step 3. If you wish to remove a Control Panel PIN Code stored in the Keypad and all tags assigned to this PIN Code, enter Control Panel User code and press * key, a long beep will sound.
- If you wish to clear only a specific tag, press * key with a long beep and Orange LED will flash for 5 seconds. Apply tag to tag sensor zone within 5 seconds:
- If the tag applied exists in Keypad, the Keypad will sound 2 short beeps to indicate the tag data has been removed.
 - If the tag applied does not exist in Keypad the Keypad will sound 4 short beeps to indicate error.
 - Each tag applied will reset the tag removal timer to 5 seconds, you can remove multiple tags by applying the one by one.
- Step 4. The Keypad will exit tag removal mode automatically after idling for 5 seconds.
- Step 5. Press “#” key to return to Test Mode.

● **Mounting Remote Keypad**

To mount the remote keypad:

- I. Remove the front cover.
- II. Using the 2 mounting holes of the back cover as a template, mark off the positions in the most appropriate place.
- III. Insert the wall plugs if fixing into plaster or brick surface.
- IV. Screw the Remote keypad onto the wall plugs.
- V. Replace the front cover.

● **How to Set System Mode**

You may choose to arm/home arm with or without a Control Panel User Code

Arm/Home without Control Panel User Code

In the Test mode, Pressing * key and then 8 key to enable Arm/ Home without Control Panel User Code function, then exit Test mode by pressing the # key twice.

- **Enter Arm Mode:** Press  key. If panel has no fault and arming is successful, the Red LED will turn ON with a short beep. When successful Arm, Red LED flashes, Backlight turns on with a long beep.
- **Enter Home Mode:** Press  key. If panel has no fault and arming is successful, the Orange LED will turn ON with a short beep. When successful Home Arm, Orange LED flashes, Backlight turns on with a long beep.
- **Return to Disarm Mode:** Enter Control Panel User Code or put Tag on the Keypad Sensor will emit a short beep. If disarm is successful, Backlight flashes along with 2 beeps.

Arm/Home with Control Panel User Code or NFC Tag

In the Test mode, Pressing * key and then 9 key can enable Arm/ Home with User Code function, then exit Test mode by pressing the # key twice. **(Default)**

This function must be enabled for NFC tag to be used.

- **Enter Arm Mode:** Press  then enter Control Panel User Code (or apply Tag to tag sensor zone), Red LED light turns on along with a short beep. If panel has no fault and arming is successful, the Red LED will flash, Backlight turns on along with a long beep.
- **Enter Home Mode:** Press  then enter Control Panel User Code (or apply Tag to tag sensor zone), Orange LED light turns on along with a short beep. If panel has no fault and arming is successful, the Orange LED will flash and Backlight turns on along with a long beep.
- **Return to Disarm Mode:** Enter Control Panel User Code or put tag on the Keypad Sensor along with a short beep. If disarm is successful, Backlight flashes along with 2 beeps.

● **Dual-key Alarm function**

The Dual Key function allows you to activate alarm from Keypad by pressing 2 keys at the same time. Press and hold both key for 1 second to transmit signal, the Keypad will emit a long beep to confirm. The dual-key function is **disabled** by default. To enable it, please refer to the Test Mode section.

- **Panic Alarm:** 1 key + 3 key.
- **Fire Alarm:** 4 key + 6 key.
- **Medical Alarm:** 7 key + 9.

● **Change of Battery**

- I. Put the Control Panel to programming menu to bypass the Keypad tamper alarm.
- II. Dismount the Remote keypad.
- III. Take out the old battery and press any key to discharge before replacing the new battery in the battery compartment.
- IV. Close the case using the rear fixing screws.
- V. Screw back the Remote keypad to the surface with mounting screws.
- VI. Put the Control Panel back to normal operation mode.

● **Fault Conditions**

*When Remote Keypad is under **NORMAL OPERATION MODE***

- a) When fault event exists in Control Panel, the arming command from Keypad will be ignored by Control Panel. The Keypad Red and Orange LED will flash for 3 seconds along with 4 beeps to indicate error. You can override the fault event and force arm the Control Panel by performing the arm action again.
- b) If the Control Panel is under Arm Mode, you **CANNOT** activate Home mode with Remote keypad. The Keypad Red LED flashes + Orange LED flashes for 3 seconds along with 4 beeps to indicate transmission error.
- c) If sent Arm/Home/Disarm signal but have no response from the Control Panel, the Red LED flashes + Orange LED flashes for 3 seconds along with 4 beeps.

- d) When incorrect Keypad PIN code is entered to enter Test mode, The Keypad will emit 4 beeps. If incorrect Keypad PIN codes are entered for 4 times, the Keypad will disable key input function for 1 minute and indicate error by flashing all LEDs for 6 times and emitting 6 beeps. All key press during the next 1-minute period will be ignored. After 1 minute, the Keypad will return to normal operation and emit a long beep to indicate

● **Appendix**

If you have forgotten the Keypad PIN Code or anything wrong happened in the Remote keypad, you can reset the Remote keypad to factory default and reinitialize it.

Reset to factory default:

- Step 1 Remove the batteries and release the tamper.
Step 2 Press & hold **3** key while inserting the battery back.
Step 3 Continue pressing **3** until three short beeps to indicate successful reset.
Step 4 Release **3** key, the reset process is complete.

<NOTE>

- ☞ After reset, Keypad PIN code reverts to factory default values, **0000** and clears all user code and tag data. Remote keypad will need a new learn-in process to start functioning.

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

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