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Mainline SK7 Wireless Access Control User Manual

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INTRODUCTION

The device is a single door wireless access control, consists of a wireless & waterproof keypad, a mini controller and a wireless exit button. 433MHz Rlling Code of encryption algorithm and the split design guarantees higher-secure.

The keypad can store 1100 PIN / card users, including 1000 common users and 100 visitor users. PIN length can be 4-8 digits. The controller is with internal & external alarm, door contact, exit button (wired) and door bell. Because of ultra low power consumption, the keypad and exit button can work as long as one year (based on 20 times/day), with just 3 units of AAA batteries and 1 unit L-battery. It will remind people to replace batteries intelligently I low battery.

Two Versions available

- **ABS:** Waterproof Plastic Keypad + Controller+ Exit Button
- **Metal:** Waterproof Metal Touch Keypad +Controller+ Exit Button
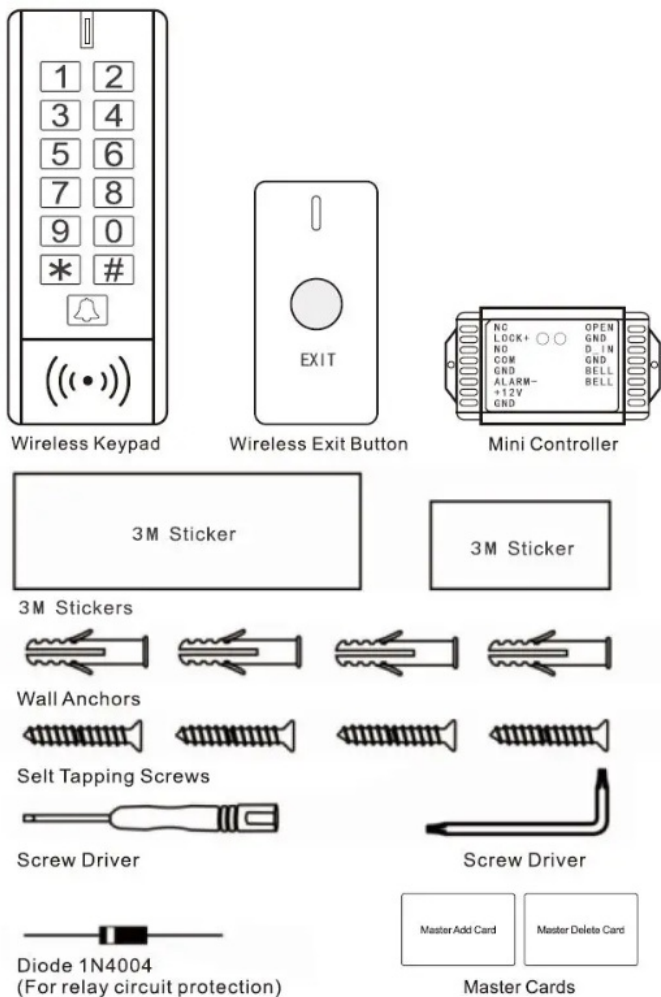
Features

- Waterproof, conforms to IP65
- 1100 PIN/ card users (1000 common users + 100 visitor users)
- 125MHz EM Card/13.56MHz Mifare Card (Optional)
- PIN length: 4-8 digits
- Backlit Keypad
- Communication frequency: 433MHz
- Communication distance: s30m
- Door contact, alarm and door bell output
- Pulse mode, toggle mode
- Tri-color LED status display
- Ultra low power consumption (wireless keypads10uA)
- Remote Control optional

Specifications

User Capacity PIN Length Card Type	**1100 PIN / card users** (1000 common users + 100 visitor users) 4~8 digits 125 KHz EM Card/13.56MHz Mifare Card
Operating Voltage Wireless Keypad Mini Controller Wireless Button	3 units of AAA batteries 12V DC ± 20% 1 unit of 2032 Lithium battery
Current Idle Current Working Current	Wireless Keypad: ≤10uA; Mini Controller: ≤20mA; Wireless Button: ≤10uA Wireless Keypad: ≤80mA; Mini Controller: ≤50mA Wireless Button: ≤30mA
Communication Frequency	**433MHz**
Communication Distance	**≤30m**
Relay Contact Load	**2Amp Maximum**
Environment Operating Temperature	**Outdoor (Wireless Keypad)** -40℃~60℃ (-40℉~140℉)
Operating Humidity	**10%~90%RH**
Physical Dimensions Unit Weight Shipping Weight	**ABS Shell or Zinc-Alloy** Wireless Keypad: L134 x W48 x D25 (mm) - ABS L148 x W43.5 x H22 (mm) - Metal Mini Controller: L85 × W50 × D25(mm) Wireless Button: L80 x W38 x D15 (mm) Wireless Keypad: 150g (ABS) / 300g (Metal) Mini Controller: 62g Wireless Button: 34g 300g (ABS) / 450g (Metal)

Carton Inventory

Wireless Keypad Wireless Exit Button Mini Controller

3M Stickers

Wall Anchors

Selt Tapping Screws

Screw Driver **Screw Driver**

Diode 1N4004
(For relay circuit protection)
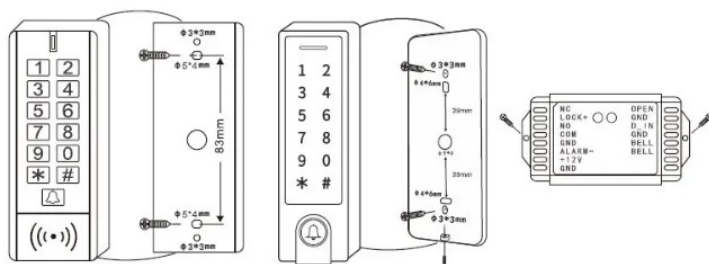
Master Cards

INSTALLATION

Method 1: Stick by 3M stickers
The device packed with 3M double-side Stickers, can easily stick the Wireless Keypad and Wireless Button on Metal Door, Glass Door, Wooden Door, or Smooth Wall.
**Method 2: Install by screws.**

Wiring (Mini Controller)

No.	Function	Notes
1	GND	Negative Pole of DC(12V) Power Input
2	+12V	Positive Pole of DC(12V) Power Input
3	ALARM-	Negative Contact for Alarm
4	COM	Common Connection for Relay Output
5	NO	Normally Open for Relay Output
6	LOCK+	Positive Pole of Lock Power Input
7	NC	Normally Close for Relay Output
8	OPEN	Contact to One Wire of Exit Button
9	D_IN	Door Status Detecting
10	BELL_A	Contact for Door Bell
11	BELL_B	Contact for Door Bell

Sound and Light Indication

Operation Status	Red LED	Green LED	Buzzer
Standby	-	-	-
Unlock the lock	-	ON for 1 second	
Key press under Program Mode	-	-	One beep
Enter into Program Mode	Shines per 1.5 seconds	-	One long beep
Invalid PIN	-	-	3 beeps
Exit from the Program Mode	-	-	One beep
Low battery reminding	RED & GREEN alternately shines 2 times (Wireless Button)		-
	ON (Wireless Keypad)		3 beeps when key press

Connection Diagram

Access Control Power Supply:
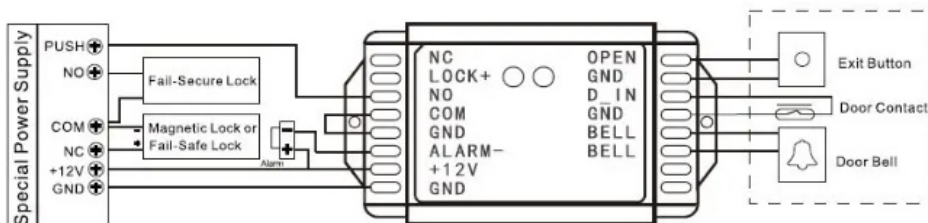
Common Power Supply:
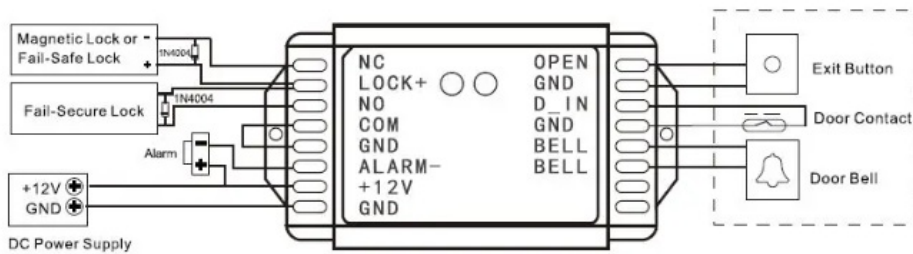
Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the reader might be damaged. (1N4004 is included in the packing)

Reset to Factory Default for Keypad

For Metal Keypad:

Method 1:
First Power Off, then Power On for 4s, then press # and hold it (Note: Must press # after the power is on between 4 second and 10 second), there will be one beep after 5 seconds, release the # button, means reset to factory default successfully.

Method 2:
Power on, read 'Reset Card' once, there will be one long beep, means reset to factory default succesfully (Reset Card is not included in the package, users can add the Reset Card when needed, refer to Page 12)

For ABS Keypad:
Power off, press * and hold it, then power on, there will be one beep after 5 seconds, then release the button, means reset to factory default succesfully

Remarks:

1. Reset to factory default, the user's information is still retained.
2. Keypad needs to pair with controller after reset

PROGRAMMING

Enter and Exit Program Mode

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) # (Factory default is 123456)
2. Exit	*

Simplified Instruction	
Function description	**Operation**
Enter the Program Mode	*** (123456) #** then you can do the programming (123456 is the factory default master code)
Change the master code	**0 (New Code) # (Repeat the New Code) #** (code: 6 digits)
Add PIN user	**1 (User ID) # (PIN) # (Repeat PIN) #** (PIN length: 4~8 digits)
Add Card User	**1 (Read Card)**
Delete user	**2 (User ID) #** **2 (Read Card)**
Delete ALL user	**2 (0000) #**
Exit from the Program Mode	*
How to release the door	
PIN Access	**PIN #**
Card Access	**(Read Card)**
PIN + Card Access	**(Read Card) (PIN) #**

Set Master Code

Programming Step	Keystroke Combination
1. Enter Program Mode	*** (Master Code) #**
2. Update Master Code	**0 (New Master Code) # (Repeat New Master Code) #** Master code is any 6 digits
3. Exit	*

Add / Delete Master Cards

Programming Step	Keystroke Combination
1. Enter Program Mode	*** (Master Code) #**
2. Add Master Add Card 2. Add Master Delete Card	**0 1 # (Read Card)** **0 2 # (Read Card)**
3. Delete Master Add Card 3. Delete Master Delete Card	**0 1 # #** **0 2 # #**
4. Exit	*

(Master Cards are included and added already. When new Master Cards added, the previous one will be replaced)

Master Cards Using

Using Master Cards to add and delete card users	
Add a User Card	1. (Read Master Add Card) 2. (Read User Card) Repeat Step 2 for additinal user cards 3. (Read Master Add Card)
Delete a User Card	1. (Read Master Delete Card) 2. (Read User Card) Repeat Step 2 for additinal user cards 3. (Read Master Detele Card)

Add User PIN(s) User ID: 0-999; PIN length: 4-8 digits

Add User Card(s)
User ID: 0-999; Card type: 125 KHz EM Card/13.56MHz Mifare Card

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Card: Using Auto ID (Allows the device to assign Card to next available User ID number) **OR** 2. Add Card: Select Specific ID (Allows Master to define a specific User ID to associate the card to)	1 (Read Card) # The cards can be added continuously. 1 (User ID) # (Read Card) #
3. Exit	*

Add Visitor Users
There are 100 groups Visitor PIN/ card available, the users can be specified up to 9 times of usage, after a certain number of times, i.e.
5times, the PIN/card become invalid automatically.
User ID: 00-099 (the leading zero of the User ID means Visitor Users)

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Visitor Card **OR** 2. Add Visitor PIN	1 (User ID) # (1~9) # (Read Card) The cards can be added continuously. 1 (User ID) # (1~9) # (PIN) # (Repeat PIN) # The users can be added continuously
3. Exit	*
Note: Number of time is 1~9 Visitor PIN/card must be unique, should be distinguished from common PIN/card	

Change PIN Users

Programming Step	Keystroke Combination
Note: Below is done outside programming mode, users can undertake this themselves.	
2. Change PIN: By Card (There will auto allocate PIN (1234) to cards when adding) **OR** 2. Change PIN: By PIN	* (Read Card) (Old PIN) # (New PIN) # (Repeat New PIN) # * (User ID) # (Old PIN) # (New PIN) # (Repeat New PIN) #
3. Exit	*

Delete Users

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete user by ID **OR** 2. Delete user by card **OR** 2. Delete All User	2 (User ID) # The users can be deleted continuously 2 (Read Card) # 2 (0000) #
3. Exit	*

Set Access Mode

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. PIN Access **OR** 2. PIN + Card Acces **OR** 2. PIN or Card Access	3 0 # 3 1 # 3 2 # (factory default)
3. Exit	*

Set Relay Configuration
The relay configuration sets the behavior of the output relay on activation.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Pulse Mode **OR** 2. Toggle Mode	4 (1-99) # (factory default) The relay time is 1-99 seconds. (Default is 5 seconds) 4 0 # Set the relay to ON/OFF Toggle mode
3. Exit	*

Set Door Bell (for Mini Controller)

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Door Bell OFF	5 0 #
OR	
2. Internal Door Bell ON	5 1 #
OR	
2. External Door Bell ON	5 2 #
OR	
2. Internal & External Door Bell ON	5 3 # (factory default)
3. Exit	*

Remarks: press Door Bell on keypad, there will be 2 times 'dingdong' from mini controller

Set Safety Mode
If set Strike-out ON, the keypad will deny access for 10 minutes after 10 failed
PIN/card attempts in 10 minutes (Factory is OFF)

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Strike-Out OFF	6 0 # 0 # (factory default)
OR	
2. Strike-Out ON	6 0 # 1 #
3. Exit	*

Set Anti-tamper Alarm

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Anti-tamper Alarm OFF	6 1 # 0 #
OR	
2. Anti-tamper Alarm ON	6 1 # 1 # (factory default)
3. Exit	*

Remarks. When anti-tamper alarm is triggered, keypad alarm, mini controller alarm and external alarm will trigger an alarm. User can close the cover/ Master Code # /Valid Card or PIN # to release the alarm, or until the alarm time (1 minute) is finished.

Set Door Open Detection
Door Open Too Long (DOTL) Detection
When use with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically to remind people to close the door. The beep can be stopped by closing the door, valid users or press exit button, or else, it will continue to beep the same time with the alarm time set.

Door Forced Open Detection
When use with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened by force, the inside buzzer and external alarm (if there is) will both operate, they can be stopped by valid users or press exit button, or else, it will continue to sound the same time with the alarm time set.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Disable Door Open Detection OR 2. Enable Door Open Detection	6 2 # 0 # (factory default) 6 2 # 1 #
3. Exit	*

Set Buzzer

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Buzzer OFF 2. Buzzer ON (keypad) OR 2. Buzzer OFF 2. Buzzer ON (Mini Controller)	7 0 # 0 # 7 0 # 1 # (factory default) 7 1 # 0 # 7 1 # 1 # (factory default)
3. Exit	*

Set Reset Card (Factory default is not including Reset Card)

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Reset Card OR 2. Delete Reset Card	0 0 # (Read Card) 0 0 # #
3. Exit	*

Remarks:

1. Reset cards cannot access the door; it can only reset the Wireless Keypad.
2. Reset card can be replaced, any new added card will replace the previous one.
3. Pairing is necessary after reset the device.

OTHERS

Users Operation

Programming Step	Keystroke Combination
PIN User Access	(PIN) #
Card User Access	(Read Card)
PIN + Card User Access	(Read Card) (PIN) #

Pair Wireless Keypad/ Exit Button and Mini Controller

1. They are already paired when out of factory, if no problem, the users do not need to do this operation in using.
2. One Mini Controller can be connected by 5 pieces of VWireless Keypad and Exit Button maximum.

- To pair the wireless keypad and the controller:

  Mini Controller: Remove the back cover, and press the button "Pair

  Wireless Keypad: " Master Code # 8 0#, press * on the keypad to exit.

  If pair successfully, there will be one beep from both the controller and the keypad; if not, there ill be three short beeps, then please repeat the setting.

- To pair the wireless button and the controller:

  Mini Controller: Remove the back cover, and press the button "Pair

  Wireless Button: Remove the back cover, and press the button "Pair, after hearing one beep, press "Pair' again to exit paring mode f pair successfully, there will be one beep from both the controller and the exit button; if not, there will be three short beeps, then please repeat the setting.

- To pair the wireless keypad with multiple mini controller

  Wireless Keypad: Master Code # 80#

  Mini Controller: Remove the back cover, and press the button "Pair (Same settings for multiple controllers)

  If pair successfully, there will be one beep from both the controller and the keypad, press on the keypad to exit paining mode; it not, there will be three

  short beeps, then please repeat the setting. Users need to finish the pairing within 30s for multiple controllers, or else, the keypad will exit pairing mode automatically.

- To pair the wireless button with multiple mini controller:

  Wireless Button: Remove the back cover, and press the button "Pair

  Mini Controller: Remove the back cover, and press the button "Pair' (Same settings for multiple controllers)

  f pair successfully, there will be one beep from both the controller and the button, press the button "Pair' on the button to exit pairing mode; if not, there will be three short beeps, then please repeat the setting. Users need to finish the pairing within 30s for multiple controllers, or else, the keypad mill exit painng mode automatically.

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