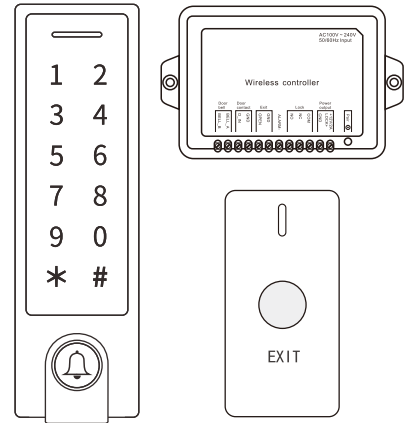


# Wireless Access Control



User Manual

## INTRODUCTION

The device is a single door wireless access control, consists of a wireless & waterproof keypad, a controller with power supply and a wireless exit button, 433MHz Rolling Code of encryption algorithm and the split design guarantees higher security.

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, and is with 110-240V AC input power supply.

Because of ultra low power consumption, the keypad and exit button can work as long as one year (bases on 20 times/day), with just 3 units of AAA batteries and 1 unit Li-battery. It will remind people to replace batteries intelligently if low battery.

**Two Versions available**  
ABS: Waterproof Plastic Keypad + Controller + Exit Button  
Metal: Waterproof Metal Touch Keypad + Controller + Exit Button

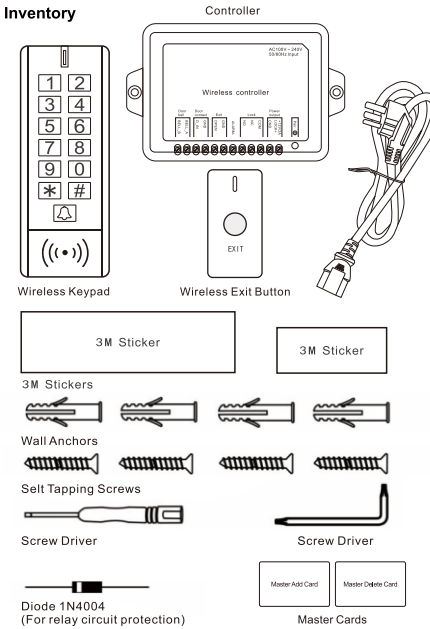
### Features

- > 110-240V AC Input, 12V DC Output
- > 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: 10-15m
- > Door contact, alarm and door bell output
- > Pulse mode, toggle mode
- > Tri-color LED status display
- > Ultra low power consumption (wireless keypads 10uA)
- > Remote Control optional

## Specifications

<b>User Capacity</b>	1100 PIN / card users (1000 common users + 100 visitor users) 4-8 digits 125 KHz EM Card/13.56MHz Mifare Card
<b>Operating Voltage</b>	3 units of AAA batteries 110V~240V AC Input, 12V DC ± 20% Output 1 unit of 2032 Lithium battery
<b>Current</b>	Wireless Keypad: ≤10uA; Controller: ≤20mA; Wireless Button: ≤10uA
<b>Working Current</b>	Wireless Keypad: ≤80mA; Controller: ≤50mA Wireless Button: ≤30mA
<b>Communication Frequency</b>	433MHz
<b>Communication Distance</b>	10-15m
<b>Relay Contact Load</b>	2Amp Maximum
<b>Environment</b>	Outdoor (Wireless Keypad) -40°C~60°C (-40°F~140°F)
<b>Operating Humidity</b>	10%~90%RH
<b>Physical Dimensions</b>	ABS Shell or Zinc-Alloy Wireless Keypad: L134 x W45 x D25 (mm) - ABS L148 x W43.5 x H22 (mm) - Metal Controller: L117 x W85 x D30 (mm) Wireless Button: L80 x W38 x D15 (mm)
<b>Unit Weight</b>	Wireless Keypad: 150g (ABS) / 300g (Metal) Controller: 250g Wireless Button: 34g 500g (ABS) / 700g (Metal)
<b>Shipping Weight</b>	

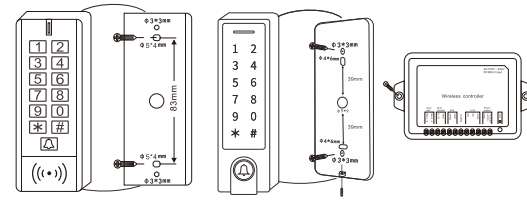
## Carton Inventory



## 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.**



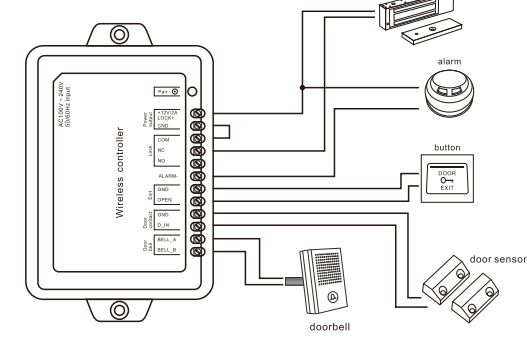
### Wiring (Controller)

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 long beep
Enter into Program Mode	Shines per 1.5 seconds	-	One long beep
Invalid PIN	-	-	3 beeps
Exit from the Program Mode	-	-	One long beep
Low battery reminding	RED & GREEN alternately shines 2 times (Wireless Keypad)	-	-
	ON (Wireless Keypad)	-	3 beeps when key press

## Connection Diagram



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 seconds and 10 seconds), 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 successfully. (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 successfully

**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) #
2. Exit	*

### 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) #
3. Exit	*

### Pair Wireless Keypad / Exit Button and Controller

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

## Additional Pairing when necessary

This operation is for situation that when the controller is already installed on a high location, and not easy to press the "Pair" button

**Method 1:** To enter Pairing mode for Controller: \* (Master Code) # 8 1 # (This step is programmed on the keypad)  
**Method 2:** Press \* (Master Code) # 8 2 #; there will be one beep from Mini Controller, means unpair all devices successfully

**Low Battery Reminding**  
If low battery of the wireless keypad, there will be 3 beeps when every key is pressed, and the LED will be in YELLOW.  
If low battery of the wireless button, the LED will shine in RED & GREEN twice alternately, then please replace the batteries for the keypad and the button within one week.

Simplified Instruction	
Function description	Operation
Enter the Program Mode	* (123456) #
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) #
Delete ALL user	2 (Read Card)
Exit from the Program Mode	*
<b>How to release the door</b>	
PIN Access	PIN #
Card Access	(Read Card)
PIN + Card Access	(Read Card) (PIN) #

## Add / Delete Master Cards

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Master Add Card	0 1 # (Read Card)
2. Add Master Delete Card	0 2 # (Read Card)
3. Delete Master Add Card	0 1 # #
3. Delete Master Delete Card	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 additional user cards 3. (Read Master Add Card)
Delete a User Card	1. (Read Master Delete Card) 2. (Read User Card) Repeat Step 2 for additional user cards 3. (Read Master Delete Card)

## Add User Card(s)

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add User Card	1 (User ID) # (PIN) # (Repeat PIN) #
2. Add Users	1 (User ID) # (PIN) # (Repeat PIN) #
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
1. Enter Program Mode	* (Master Code) #
2. Change PIN: By Card	* (Read Card) (Old PIN) # (New PIN) #
2. Change PIN: By PIN	* (User ID) # (Old PIN) # (New PIN) #
3. Exit	*

## Delete Users

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

## Set Access Mode

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Visitor Card	1 (User ID) # (1-9) # (Read Card)
2. Add Visitor PIN	1 (User ID) # (1-9) # (PIN) # (Repeat PIN) #
3. Exit	*

## Set Relay Configuration

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Pulse Mode	4 (1-99) # (factory default)
2. Toggle Mode	4 0 #
3. Exit	*

## Set Door Bell (for Controller)

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

## Set Safety Mode

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

## Set Anti-tamper Alarm

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

## Set Door Open Detection

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

## Door Forced Open Detection

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

## Set Reset Card

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

## OTHERS

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

## Users Operation

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Card User Access	(Read Card)
PIN + Card User Access	(Read Card) (PIN) #

## Pair Wireless Keypad / Exit Button and Controller

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

## Pairing Mode

- To pair the wireless keypad and the controller:  
Controller: Press the "Pair" button  
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 will be three short beeps, then please repeat the setting.
- To pair the wireless button and the controller:  
Controller: Press the "Pair" button  
Wireless Button: Remove the back cover, and press the button "Pair", after hearing one beep, press "Pair" again to exit pairing mode. If pair successfully, there will be one beep from both the controller and the keypad; 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 # 8 0 #  
Controller: Press the "Pair" button (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 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 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"  
Controller: Press the "Pair" button (Same settings for multiple controllers)  
If 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 will exit pairing mode automatically.