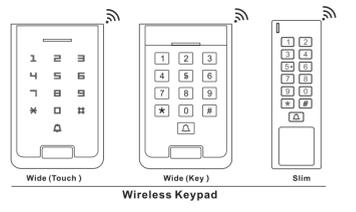
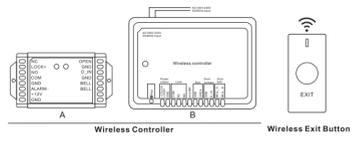


Wireless Access Control User Manual



INTRODUCTION
 This is a wireless access control. It is metal case, reads 125KHz EM13.56MHz mifare card, adopting 433MHz wireless communication technology and TEA+ rolling code encryption algorithm.
 And it can be connected with door contact, external alarm, external exit button, external door bell.
 Wireless access control consists of three parts:
 a) Wireless Access Control Keypad (install at the door outside)
 b) Wireless Controller (install inside the door)
 c) Wireless Exit Button (install inside the door)
 One Wireless controller can be connected with 5 devices (Wireless access control keypad+ Wireless exit button). And one Wireless access control keypad (or one Wireless exit button) can be connected with unlimited Wireless controllers.

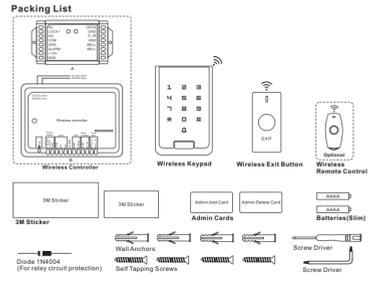
- Features And Benefits**
- > Zinc-alloy housing.
 - > Keypad waterproof, Protection level conforms to IP66.
 - > Equipped with admin cards, which can add/delete users quickly.
 - > 100 Visitor Users
 - > TEA+ rolling Code encryption algorithm which makes it high-level security.
 - > Backlit keypad design, making it is easy to operate in darkness.
 - > Doorbell Function: There is a doorbell built-in the Wireless controller, and you can also connect external doorbell into it.
 - > Anti-tamper: When the device is disassembled by the bad guys, the keypad outside and the controller inside will alarm at the same time.
 - > Can be set Pulse Mode or Toggle Mode.
 - > External doorbell/ external alarm/ door contact are supported/ exit button.

Specifications

Operating Voltage	Keypad: 3 units of AAA batteries (Wide) Keypad: 2 units of AAAA batteries (Slim) Exit Button: CR2032 Lithium battery (3V) Controller: A: 12V DC ±20%, Controller B: AC100-240V
Idle Current	Keypad<=10uA Exit Button<=10uA Controller<=20uA
Active Current	Keypad<=70mA Exit Button<=9mA Controller<=50mA
User Capacity	1000 Ordinary Users+100 Visitor Users

01

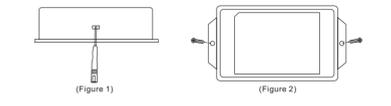
Card type	EM Card/ Mifare Card
Card Frequency	125KHz/ 13.56MHz
Communication Frequency	433MHz
Communication Distance	30M Maximum
Lock Output Load	2Amp Maximum
Operating Temperature	-40°C~+60°C (-22°F~140°F)
Operating Humidity	10%-90% RH
Keypad Dimensions	Wide: L115 X W76 X H25(mm) Slim: L129 X W44 X H20(mm)
Exit Button Dimensions	L80 X W39 X H15(mm)
Controller Dimensions	A: L85 X W50 X H25(mm), B: L116 X W85 X H30(mm)
Unit Weight	Keypad: 360g (Wide), 300g (Slim), Controller: 62g, Exit Button: 34g
Shipping Weight	565g (Wide), 529g (Slim)



02

INSTALLATION

Note: Installation for the Keypad and Exit Button, just use the 3M adhesive to stick them on the wall or at the door frame. The installation for the Wireless Controller is as below.
 1. How to open the case of controller: Insert the screwdriver directly into the hole of the case and pry the screwdriver upward.
 2. Draw 2 holes on the wall where the controller is needed to be installed, then drill 2 holes, insert the rubber plug into the holes, and fix the controller to the wall with screws.



Sound and Light Indication

Operation Status	LED	Buzzer	Sound
Keypad stand by	—	—	—
Exit Button stand by	—	—	—
Pairing mode	Red/green blink in turn	—	—
Low battery reminding (Keypad)	Shines from Red to Green twice	3beeps	Beep Beep Beep
Low battery reminding (Exit button)	—	3beeps	Beep Beep Beep
Access the door with Keypad	Green light for 3 seconds	One beep	Beep
Enter program mode	Red light shines	One beep	Beep
Operation correct	Green light 0.5 seconds	One beep	Beep
Operation incorrect	—	3beeps	Beep Beep Beep
Exit program mode	—	One beep	Beep
Standby of the controller	Red light bright	—	—
Unlock of the controller	Green light bright	One beep	Beep

03

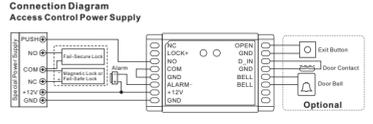
Controller Connection port Definition

Function	Notes
+12V/+12V/2A	12V DC power supply input/ 12V DC power supply output
GND	Negative Pole
ALARM-	Negative of external alarm
COM	Relay COM
NO	Relay NO
NC	Relay NC
LOCK+	Positive pole of Electric lock
OPEN	Connect to exit button
D_IN	Connect to door contact
BELL_A	External doorbell
BELL_B	External doorbell

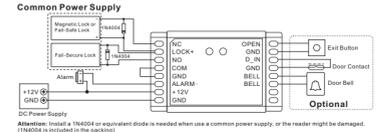
Keypad Factory Default Settings

Method 1 (Keypad type) In the state of power off, press [and hold, put in the batteries, you will hear a beep after 5 seconds. Then release. Initialization succeed.
 (Touch type) Power on, between 4-10 seconds, press [and hold with 5 seconds, release when hearing a beep. Initialization succeed.
Method 2: Swipe the initialization card in the state of standby. Hearing a beep, initialization succeed.
 Initialization does not delete user data, only settings are restored to factory defaults.
 Note: For security reasons, after initialization, keypad must be re-paired with controller in order to work properly.

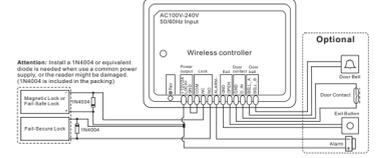
STANDALONE MODE



04



Connection B Diagram



Add/Delete Users by Admin Cards (in standby mode)

Operation	Step 1	Step 2	Step 3
Add users (ID number: 0-999)	Read Admin Add Card	Read user cards (Repeat step 2 for additional user cards)	Read Admin Add Card again to end
Delete Users	Read Admin Delete Card	Read user cards (Repeat step 2 for additional user cards)	Read Admin Delete Card again to end

05

Enter and Exit Program mode

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Exit Program Mode	* (Factory default is 123456)	— —

For safety, the Admin must change the Admin code.

Modify Admin Code

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Update Admin Code	0 (New Admin Code) # (Repeat New Admin Code) #	Red shines
Exit Program Mode	*	— —

The length of the admin code is 6 digits, the admin should keep it in mind.

Add Users by Keypad (ID Number: 0-499)

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Add card by Card	1 (Read Card)	Red shines
Add card by ID number	1 (ID Number) # (Read Card)	Red shines
Add PIN users	1 (ID Number) # (4-8 digits PIN) # (Repeat 4-8 digits PIN) #	Red shines
Exit Program Mode	*	— —

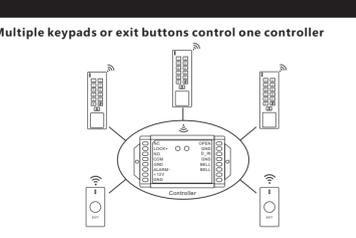
Note: 1. When swiping cards to add users, the user ID will be added in automatically, and ID number will be from small to big, ranged from 0-999.
 2. When adding card users, an attached PIN 1234 will be added in automatically. This pin cannot used to open door. If you want to open door by card + PIN, you should first change the old PIN 1234, method referring to Change PIN.
 3. Do not add 0 prefix to the ID number when adding an ordinary user. See Add Visitor User section for details.

Add Visitor Users

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Add Visitor card by Card	1 (ID Number) # (1-9) # (Read Card)	Red shines
Add Visitor PIN users	1 (ID Number) # (1-9) # (4-8 digits PIN) # (Repeat 4-8 digits PIN) #	Red shines
Exit Program Mode	*	— —

06

Multiple keypads or exit buttons control one controller



Note: 1. The ID number range of the visitor user: 00-099, 100 in total. The first number "0" means temporary user.
 2. Do not set the password of the visitor user same with the password of the ordinary user. If the same password is set, even if the password of the visitor user expires, the password will be considered as the password of the ordinary user and the door opening action will be performed.
 3. The visitor user's opening permission can be set between 1 and 9. Each time the door is opened, the opening permission is reduced once. For example, if a visitor user's opening permission is set to 5, after 5 times of door opening, the user will be deleted automatically.

Delete Users by Keypad (ID number: 0-999)

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Delete card by Card	2 (Read Card)	Red shines
Delete users by ID number	2 (ID Number) #	Red shines
Delete All User	2 0000 #	Red shines
Exit Program Mode	*	— —

Access Mode Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
PIN access	3 0 #	Red shines
Card + PIN access	3 1 #	Red shines
Card or PIN access	3 2 # (Factory default)	Red shines
Exit Program Mode	*	— —

Pulse Mode and Toggle Mode Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Pulse Mode	4 (1-99) #	Red shines
Toggle Mode	4 0 #	Red shines
Exit Program Mode	*	— —

07

Note: 1. Factory default is Pulse Mode and the access time is 5 seconds. When set the access time to "0", the device will be in Toggle Mode.
 2. **Pulse Mode:** The door will be closed automatically after opening the door for a while.
 3. **Toggle Mode:** Under this mode, after opening the door, the door won't be closed automatically until next valid user input. That is to say, whether open or close the door, you must swipe valid card or input valid PIN.

Doorbell Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Close Doorbell	5 0 #	Red shines
Open Built-in & External Doorbell	5 3 # (Factory default)	Red shines
Only Open Doorbell Built-in	5 1 #	Red shines
Only Open External Doorbell	5 2 #	Red shines
Exit Program Mode	*	— —

Safe Mode Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Close safe mode	6 0 # 0 # (Factory default)	Red shines
Open safe mode	6 0 # 1 #	Red shines
Exit Program Mode	*	— —

Anti-Tamper Alarm Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Disable Anti-tamper alarm	6 1 # 0 #	Red shines
Enable Anti-tamper alarm	6 1 # 1 # (Factory default)	Red shines
Exit Program Mode	*	— —

Note: 1. Enable the anti-tamper alarm, if the back cover of this device is removed, the buzzer built-in and the external alarm will activate at the same time.
 2. How to close the alarm: Fix the case/ Admin code #Valid PIN#Alarm time up (1minute).

08

Door Contact Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Disable door contact	6 2 # 0 # (Factory default)	Red shines
Enable door contact	6 2 # 1 #	Red shines
Exit Program Mode	*	— —

Note: Enable the door contact function, a Magnetic Contact should be installed at the door:
 1. The door is opened by valid user, but not closed in 1 minute, the buzzer built-in will beep to remind the user the door is not closed. How To stop the reminder? Valid User /Press Exit Button.
 2. If the door opened by violence, the buzzer built-in and external alarm will activate. How to stop the alarm: Valid User/ Press Exit Button.

Buzzer Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Disable Buzzer of Keypad	7 0 # 0 #	Red shines
Enable Buzzer of Keypad	7 0 # 1 # (Factory default)	Red shines
Disable Buzzer of Controller	7 1 # 0 #	Red shines
Enable Buzzer of Controller	7 1 # 1 # (Factory default)	Red shines
Exit Program Mode	*	— —

Note: When disable the buzzer built-in the Controller, it only disables the reminder of unlock successfully.

Add Reset Card (Equipped by users themselves if needed)

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Add Reset Card 1	0 0 # (Read Card)	Red shines
Exit Program Mode	*	— —

Note: 1. The Reset Card only used to reset the settings of the keypad to factory default, the settings of the controller cannot be reset. And reset card cannot used to unlock door.
 2. After reset of the keypad, it should be reconnected to the controller.
 3. There are total 2 reset card. If lost, you can add new cards as reset cards.

09

Delete Reset card

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Delete Reset Card 1	0 0 # #	Red shines
Exit Program Mode	*	— —

Add Admin Cards Into Device

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Set Admin Add Card	0 1 # (Read Card)	Red shines
Set Admin Delete Card	0 2 # (Read Card)	Red shines
Exit Program Mode	*	— —

Delete Admin Cards

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
Delete Admin Add Card	0 1 # #	Red shines
Delete Admin Delete Card	0 2 # #	Red shines
Exit Program Mode	*	— —

Pairing Method Of Keypad And Controller

Programming Step	Keystroke Combination	LED
Controller enter pairing mode	Press the "Pair" button on the Controller	Red and Green alternate flashing
Pairing Method of Keypad	* (Admin Code) # # 0 #	Red and Green alternate flashing
Exit Program Mode	*	— —

Note: A controller can be paired with 5 devices. (Keypad access control + exit button), after pairing successfully, it will exit pairing mode automatically.

10

Pairing Method Of Exit Button And Controller

Programming Step	Keystroke Combination	LED
Controller enter pairing mode	Press the "Pair" button on the Controller	Red and Green alternate flashing
Exit button enter pairing mode	Press the "Pair" button on the Exit Button	Red and Green alternate flashing
Exit button exit pairing mode	Press the "Pair" button of exit button again	— —

Note: A controller can be paired with 5 devices. (Keypad access control + exit button), after pairing successfully, it will exit pairing mode automatically.

Pairing Method Of A Keypad And Several Controllers

Programming Step	Keystroke Combination	LED
Keypad enter pairing mode	* (Admin Code) # 8 0 #	Red and Green alternate flashing
Pairing Method of Controller	Press the "Pair" button of each controller needed to be paired	Red and Green alternate flashing
Keypad exit pairing mode	*	— —

Note: 1. A Keypad can be paired with multiple controllers (unlimited).
 2. The pairing time of Keypad is 30 seconds, you should press the "pair" button of controllers during this time.

Pairing Method Of Exit Button And Several Controllers

Programming Step	Keystroke Combination	LED
Exit button enter pairing mode	Press the "Pair" button of exit button	Red and Green alternate flashing
Method of Controller	Press the "Pair" button of each controller needed to be paired	Red and Green alternate flashing
Exit button exit pairing mode	Press the "Pair" button of exit button again	— —

Note: 1. An Exit Button can be paired with multiple controllers (unlimited).
 2. The pairing time of exit button is 30 seconds, and you need to press the "pair" button of controller inside the door during this time.

The indoor controller usually installed at a high position. In consideration of the installed indoor controller, it is inconvenient for pairing if the user want to add a new remote controller or exit button. Now we can solve this problem by doing some operations on the outdoor keypad. Please check the steps below

11

Clear all the pairings by keypad operation (Operate carefully)
 Two methods to clear all the pairings of the indoor controller (Need to pair again when done)

Programming Step	Keystroke Combination	LED
Controller pairing by operating keypad	* (Admin Code) # 6 1 #	the red and green led flashed in turns

Press the "pair" button on the remote controller, exit button for pairing. The indoor controller will be back to standby state after pairing succeed.

1. Press the "Pair" button on the keypad with 5 seconds, hearing a beep. Then all the pairings cleared.
 2. Press * Admin Code # 82 # *, hearing a beep from the indoor controller. Then all the pairings cleared.

Users Setting

Modify The User PIN

Programming Step	Keystroke Combination
Modify the PIN which attached to the card user	* (Read Card) (old PIN) # (New PIN) # (Repeat New PIN) #
Modify independent PIN	* (ID number) # (old PIN) # (New PIN) # (Repeat New PIN) #

Note: The PIN can be changed to any one 4-8 digits, but cannot be "1234", and the PIN attached to the card is only used for card + PIN access mode.

How To Open The Door

Method of Controller	Keystroke Combination
Open door by card	(Read Card)
Open door by User PIN	(Users PIN) #
Open door by user card + PIN	(Read Card) (Users PIN) #

Note: 1. When swipe invalid card, the device will beep 3 times, the door won't be opened and the device will be Standby mode.

How To Lock Immediately
 Input [E], the relay releases and the door will be locked immediately. For example: Set the access time to 10 seconds. Close the door in 3s, it won't lock until 10s. If you want it to lock immediately, input [E].

12