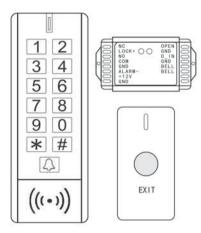
Wireless

Access Control



User Manual

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 Rolling Code of encryption algorithm and the split design guarantees higher-secure.

The keypad can store 600 PIN / card users, including 500 common users and 100 visitor users, PIN length can be 4~8 digits, 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 (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

Features

- > Waterproof, conforms to IP65
- > 600 PIN / card users (500 common users + 100 visitor users)
- > PIN length: 4~8 digits
- > Backlit Keypad > Communication frequency: 433MHz
- > Communication distance: 50m Max
- > Door contact, alarm and door bell output
- > Pulse mode, toggle mode > Tri-color LED status display
- > Ultra low power consumption (wireless keypad≤10uA)

Specifications

| User Capacity | 600 PIN / card users (500 common users + 100 visitor users |
|-------------------|---|
| PIN Length | 4~8 digits |
| Card Type | 125KHz EM card |
| Operating Voltage | |
| Wireless Keypad | 3 units of AAA batteries |
| Mini Controller | 12V DC ± 20% |
| Wireless Button | 1 unit of 2032 Lithium battery |

-01-

Idle Current Wireless Keypad: ≤10uA: Mini Controller: ≤20mA: Wireless Button: ≤10uA Working Current Wireless Keypad: ≤80mA; Mini Controller: ≤50mA Wireless Button: ≤30mA **Communication Frequency** 433MHz Communication Distance 50m Maximum Relay Contact Load 2Amp Maximum Environment Outdoor (Wireless Keypad) Operating Temperature -40°C~60°C (-40°F~140°F) **Operating Humidity** 10%~90%RH **ABS Shell** Wireless Keypad: L134 × W48 × D25(mm) Dimensions

Unit Weight

Shipping Weight

-02-

Mini Controller: L85 × W50 × D25(mm)

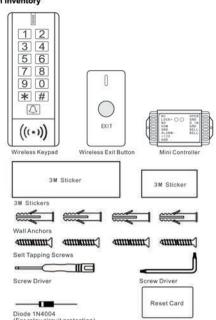
Wireless Button: L80 x W38 x D15 (mm)

Wireless Keypad: 150g

Mini Controller: 62g

Wireless Button: 34g

Carton Inventory

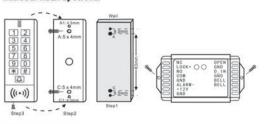


INSTALLATION .

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 (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 |

-04-

Remarks: when anti-tamper alarm is triggered, keypad alarm, mini

until the alarm time (1 minute) is finished.

Door Open Too Long (DOTL) Detection

Set Door Open Detection

Door Forced Open Detection

Programming Step

Enter Program Mode

2. Disable Door Open Detection

2. Enable Door Open Detection

the alarm time set.

3. Exit

controller alarm and external alarm will trigger an alarm. User can close

the cover / Master Code # / Valid PIN or Card # to release the alarm, or

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

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

Keystroke Combination

* (Master Code) #

62#1#

6 2 # 0 # (factory default)

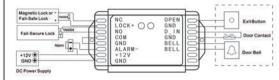
Sound and Light Indication

| Operation Status | Red LED | Green LED | Buzzer |
|------------------------------|-------------------------------|------------------|------------------|
| Standby | 8 |) Si | E |
| Unlock the lock | | ON for 3 seconds | |
| Key press under Program Mode | | le. | One beep |
| Enter into Program Mode | Shines per 1.5 seconds | i. | One long beep |
| Invalid PIN | 1 | | 3 beeps |
| Exit from the Program Mode | - | No. | One beep |
| Low battery reminding | RED & GREEN at times (Wire | | Gri |
| | ON (Mirele | es Keymad) | 3 beeps when |

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

Power on, press #, read 'reset card', there will be one beep, means reset to factory default successfully.

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 (123456)# Enter the Program Mode then you can do the programming (123456 is the factory default master code) 0 (New Code) # (Repeat the New Code) # Change the master code Add PIN user 1 (User ID) # (PIN) # (Repeat PIN) # 1 (Read Card) Add Card User Delete user Delete ALL user Exit from the Program Mode How to release the doo PIN Access DIN # 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 User PIN(s)

User ID: 0~499; PIN length: 4~8 digits

| Programming Step | Keystroke Combination |
|-----------------------|---|
| 1. Enter Program Mode | * (Master Code) # |
| 2. Add Users | 1 (User ID) # (PIN) # (Repeat PIN) # The users can be added continuously |
| 3. Exit | 1000 |

Add User Card(s)

User ID: 0~499: Card type: 125KHz FM card

| Programming Step | Keystroke Combination |
|--|--|
| Enter Program Mode | * (Master Code) # |
| Add Card: Using Auto ID (Allows the device to assign Card to next available User ID number) OR | 1 (Read Card) # The cards can be added continuously. |
| Add Card: Select Specific ID (Allows Master to define a specific User ID to associate the card to) | 1 (User ID) # (Read Card) # |
| 3. Exit | 9 |

-07-

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. 5 times, the PIN/card become invalid automatically.

User ID: 00~099 (the leading zero of the User ID means Visitor Users)

| Keystroke Combination |
|---|
| * (Master Code) # |
| 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 |
| |
| |

Change PIN Users

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

Delete Users

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

Set Access Mode

| Programming Step | Keystroke Combination | |
|---------------------------|-------------------------|--|
| Enter Program Mode | * (Master Code) # | |
| 2. PIN Access OR | 30# | |
| 2. PIN + Card Acces OR | 31# | |
| 2. PIN or Card Access | 3 2 # (factory default) | |
| 3. Exit | . // ★ /2 | |

Set Relay Configuration

The relay configuration sets the behavior of the output relay on activation.

| Programming Step | Keystroke Combination |
|--------------------|---|
| Enter Program Mode | * (Master Code) # |
| 2. Pulse Mode OR | 4 (1-99) # (factory default) The relay time is 1-99 seconds. (1 is 500mS.) (Default is 5 seconds) |
| 2. Toggle Mode | 4 0 # Set the relay to ON/OFF Toggle mode |
| 3. Exit | |

Set Door Bell

| Programming Step | Keystroke Combination |
|-------------------------------------|-------------------------|
| Enter Program Mode | * (Master Code) # |
| 2. Door Bell OFF OR | 50# |
| 2. Internal Door Bell ON OR | 51# |
| 2. External Door Bell ON OR | 52# |
| 2. Internal & External Door Bell ON | 5 3 # (factory default) |
| 3. Exit | IN . |

-03-

mini controller

Set Safety Mode

In safety mode, it can be set to deny access for 10 minutes after 10 failed PIN / card attempts in 10 minutes (Factory is OFF)

| Programming Step | Keystroke Combination | |
|-------------------------|----------------------------|--|
| Enter Program Mode | * (Master Code) # | |
| 2. Strike-Out OFF OR | 6 0 # 0 # (factory default | |
| 2. Strike-Out ON | 60#1# | |
| 3. Exit | 16.83 | |

Set Anti-tamper Alarm

| Keystroke Combination |
|--|
| * (Master Code) # |
| 6 1 # 0 # 6 1 # 1 # (factory default) |
| * |
| |

| Programming Step | Keystroke Combination |
|--------------------------------|-----------------------------|
| Enter Program Mode | * (Master Code) # |
| 2. Buzzer OFF | 70#0# |
| 2. Buzzer ON (keypad) | 7 0 # 1 # (factory default) |
| OR 2. Buzzer OFF | 71#0# |
| 2. Buzzer ON (Mini Controller) | 7 1 # 1 # (factory default) |
| 3. Exit | * |

-05-

Set Reset Card (2 reset cards max)

| Programming Step | Keystroke Combination |
|---------------------------|-----------------------|
| Enter Program Mode | * (Master Code) # |
| 2. Add Reset Card 1 | 0 0 # (Read Card) |
| 2. Add Reset Card 2 OR | 0 1 # (Read Card) |
| 2. Delete Reset Card 1 | 00## |
| 2. Delete Reset Card 2 | 01## |
| 3. Exit | |

- 1. Reset cards cannot access the door; it can only reset the Wireless Keypad.
- 2. Reset cards can be 2 units maximum, any 2 new added will replace the previous two.
- 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 Wireless 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 will 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 If 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 # 8 0 #

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 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.

-13-

 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) 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.

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.

-14-

-08-

-09-

-10-

-11-

-12-