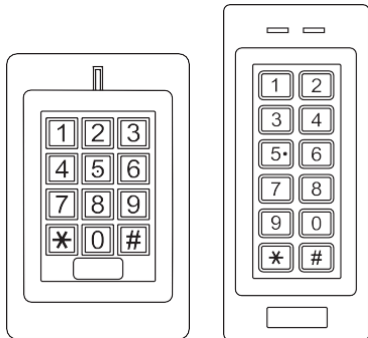


# Easy Keypad (Outdoor)



User Manual

## INTRODUCTION

The device is a single entry standalone Access Control with integrated keypad and card reader. It is an easy to install and operate device, designs in as less as 6 wires for mounting, with user-friendly programming. The compact design makes it a good choice for door access.

The device is housed in a strong Zinc Alloy electroplated case. It supports up to 1000 users in multiple access configurations (Card Only, Card or PIN, or Card + PIN). The built in card reader supports EM 125KHz frequency cards.

### Two Versions Optional:

- 1) Indoor, nonwaterproof
- 2) Outdoor, Waterproof (IP66)

### Features

- > Waterproof, conforms to IP66
- > Vandal Resistant Enclosure
- > Backlit Keypad
- > Multi-color LED status display
- > One Programmable Relay Output
- > 1000 Users (990 Normal Users + 10 Visitor Users)
- > Access Mode: Card, PIN, Card + PIN
- > Low power consumption (50mA)
- > Anti-Tamper Alarm
- > Latch Mode to hold door or gate open
- > 9-18V DC Power input

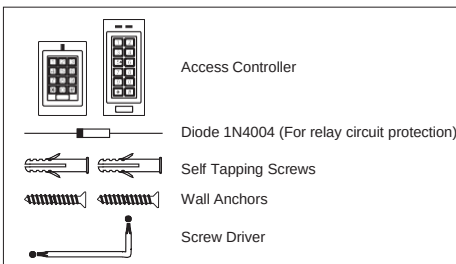
### Specifications

|                                                                   |                                                                                  |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>User Capacity</b><br>Normal Users<br>Visitor Users             | <b>1000 Cards/PINs</b><br>990<br>10                                              |
| <b>Operating Voltage</b><br>Idle Current<br>Active Current        | <b>9-18V DC</b><br>50mA<br>80mA                                                  |
| <b>Keypad</b>                                                     | <b>12 Key</b>                                                                    |
| <b>Proximity Card Reader</b><br>Radio Technology<br>Read Range    | <b>EM</b><br>125 KHz Industry Standard Proximity Card<br>3-6cm                   |
| <b>Wiring Connections</b>                                         | Relay Output, Exit Button                                                        |
| <b>Relay</b><br>Adjustable Relay Output Time<br>Lock Output Load  | <b>One (NO, NC, Common)</b><br>0-99 Seconds (5 seconds default)<br>3 Amp Maximum |
| <b>Environment</b><br>Operating Temperature<br>Operating Humidity | <b>Meets IP66</b><br>-40°C~60°C, -40°F~140°F<br>10%-90% Non-condensing           |

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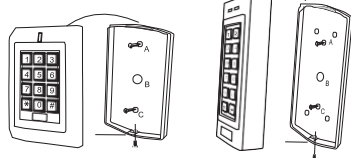
|                                                                                   |                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical</b><br>Surface Finish<br>Dimensions<br>Unit Weight<br>Shipping Weight | <b>Zinc-Alloy Enclosure</b><br>Powder Coat<br>L120 X W76 X H25 (mm) (Wide)<br>L130 X W56 X H23 (mm) (Narrow)<br>470g(Wide)/490g(Narrow)<br>550g(Wide)/550g(Narrow) |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Carton Inventory



## INSTALLATION

- > Remove the back cover from the unit
- > Drill 2 holes (A, C) on the wall for the screws and one hole for the cable
- > Knock the supplied rubber bungs to the screw holes (A, C)
- > Fix the back cover firmly on the wall with 4 flat head screws
- > Thread the cable through the cable hole (B)
- > Attach the unit to the back cover.



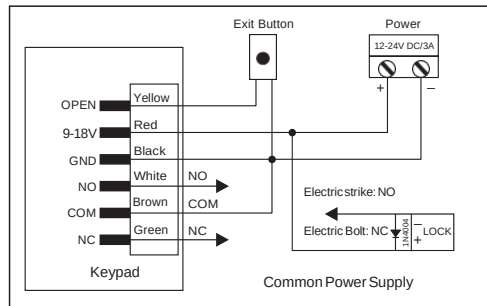
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## Wiring

| Wire Insulation Colour | Function | Notes                              |
|------------------------|----------|------------------------------------|
| Yellow                 | OPEN     | Request to Exit Input (REX)        |
| Red                    | Power +  | 9-18V DC Regulated Power Input     |
| Black                  | GND      | Ground                             |
| White                  | NO       | Normally Open Relay Output         |
| Brown                  | COM      | Common Connection for Relay Output |
| Green                  | NC       | Normally closed Relay Output       |

### Connection Diagram

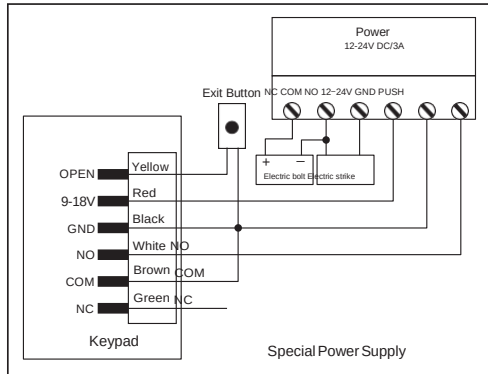
Common power supply:



**Attention:** Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing)

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### Access Control Power Supply:



## PROGRAMMING

Programming will vary depending on access configuration. Follow the instructions according to your access configuration.

### Programming 1. .... Configure the device

Change the configure settings according to your application (optional). Multiple configuration settings can be changed at one time: enter program mode, change desired settings, then exit program mode.

### Set Master Code

The 4-6 digit Master Code is used to prevent unauthorized access to the system. To interface with the device the manager will need a Master Code (factory default code: 123456). We highly recommend immediate update and record of your Master Code.

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| Programming Step      | Keystroke Combination                                     |
|-----------------------|-----------------------------------------------------------|
| 1. Enter Program Mode | <b>* (Master Code) #</b>                                  |
| 2. Update Master Code | <b>0 ( New Master Code) # ( Repeat New Master Code) #</b> |
| 3. Exit Program Mode  | <b>*</b>                                                  |

### Set Access Configuration

- There are 3 types of access configurations for the device.
- > **Card or PIN (Default):** The User must present a valid Card to the device or enter their PIN code followed by the # key, in order to be granted access.
  - > **Card Only:** The User must present a valid Card to the device in order to be granted access.
  - > **Card + PIN:** The User must first present a valid Card to the device and then enter their PIN code followed by the # key, in order to be granted access.

| Programming Step      | Keystroke Combination    |
|-----------------------|--------------------------|
| 1. Enter Program Mode | <b>* (Master Code) #</b> |
| 2. Card or PIN        | <b>3 0 #</b>             |
| OR                    |                          |
| 2. Card + PIN         | <b>3 1 #</b>             |
| OR                    |                          |
| 2. Card only          | <b>3 2 #</b>             |
| 3. Exit Program Mode  | <b>*</b>                 |

### Set Relay Configuration

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

| Programming Step      | Keystroke Combination                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------|
| 1. Enter Program Mode | <b>* (Master Code) #</b>                                                                |
| 2. Pulse Mode         | <b>4 (1-99) #</b><br>The relay time is 1-99 seconds. (1 is 50mS.) Default is 5 seconds. |
| OR                    |                                                                                         |
| 2. Latch Mode         | <b>4 0 #</b><br>Sets the relay to ON/OFF Latch mode                                     |
| 3. Exit               | <b>*</b>                                                                                |

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### Set Strike-out Alarm

The strike-out alarm will engage after 5 failed card/PIN attempts. Default is OFF. The strike-out alarm can be set to deny access for 10 minutes after engaging or it can be set to disengage only after entering a valid card/PIN or Master code.

| Programming Step      | Keystroke Combination                                 |
|-----------------------|-------------------------------------------------------|
| 1. Enter Program Mode | <b>* (Master Code) #</b>                              |
| 2. Strike-Out OFF     | <b>6 0 #</b> (factory default)                        |
| OR                    |                                                       |
| 2. Strike-Out ON      | <b>6 1 #</b> Access will be denied for 10 minutes     |
| OR                    |                                                       |
| 2. Strike-Out ON      | <b>6 2 #</b> The buzzer alarms.                       |
| Set alarm time        | <b>5 (0 ~ 30) #</b> ,<br>Factory default is 1 minute. |
| 3. Exit               | <b>*</b>                                              |

### Programming 2. .... Program Cards and PINS

Programming will vary depending on the access configuration. Follow the instructions according to your access configuration.

### GENERAL PROGRAMMING INFORMATION

> **User ID Number:** Assign a user ID number to the access code in order to keep track of the users of access cards or PINS. The normal user ID can be any number from 0-989, and the 10 groups of visitors from 990-999. **IMPORTANT:** User IDs do not have to be preceded with any leading zeros. Recording of User ID is critical. Modifications to user data require either the card or the User ID be available.

> **Proximity Card:** 125 KHz industry standard 26 bits EM Proximity Card.

> **Keypad PIN:** The PIN can be any 4-6 digits between 0000-999999 (except 1234 which is reserved for factory testing).

### ACCESS CONFIGURATION: CARD OR PIN & CARD ONLY. ....

#### Add User Cards

| Programming Step      | Keystroke Combination    |
|-----------------------|--------------------------|
| 1. Enter Program Mode | <b>* (Master Code) #</b> |

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|                                                                                                           |                                                                             |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 2. Add Card: Using Auto ID<br>(Allows the device to assign Card to next available User ID number) OR      | <b>1 (Read Card) #</b><br>Cards can be added continuously.                  |
| 2. Add Card: Select Specific ID<br>(Allows manager to define a specific User ID to associate the card to) | <b>1 (User ID) # (Read Card) #</b><br>The user ID is any number from 0-989. |
| 3. Exit Program Mode                                                                                      | <b>*</b>                                                                    |

#### Delete User Cards

| Programming Step                   | Keystroke Combination                                         |
|------------------------------------|---------------------------------------------------------------|
| 1. Enter Program Mode              | <b>* (Master Code) #</b>                                      |
| 2. Delete Card: By card            | <b>2 (Read Card) #</b><br>Cards can be deleted continuously.  |
| OR                                 |                                                               |
| 2. Delete Card: Select Specific ID | <b>2 (User ID) #</b><br>The user ID is any number from 0-989. |
| 3. Exit                            | <b>*</b>                                                      |

#### Add or Delete a PIN

| Programming Step                                                 | Keystroke Combination                                           |
|------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. Enter Program Mode                                            | <b>* (Master Code) #</b>                                        |
| 2. Add a PIN<br>Assigns PIN to user ID number OR                 | <b>1 (User ID) # (PIN) #</b><br>PINS can be added continuously. |
| 2. Delete a PIN<br>Deletes the User ID number and associated PIN | <b>2 (User ID) #</b><br>PINS can be deleted continuously.       |
| 3. Exit                                                          | <b>*</b>                                                        |

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### Change a PIN

This operation is executed from outside of Program Mode.

| Programming Step | Keystroke Combination                                    |
|------------------|----------------------------------------------------------|
| 1. Change a PIN  | <b>* (User ID #) (Old PIN #) (New PIN #) (New PIN #)</b> |

### ACCESS CONFIGURATION: CARD+PIN. ....

#### Add a Card+ PIN User

| Programming Step                | Keystroke Combination                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1. Enter Program Mode           | <b>* (Master Code) #</b>                                                                                        |
| 2. Add a User Card by ID number | <b>1 (User ID) # (Read Card) #</b>                                                                              |
| 3. Exit Program Mode            | <b>*</b>                                                                                                        |
| 4. Add PIN                      | <b>* (Read Card) (1234#) (New PIN #) (New PIN #)</b><br>This operation is executed from outside of Program Mode |

### Change PIN

Allows card user to update the PIN for their card + PIN User ID. This operation is executed from outside of Program Mode.

| Programming Step           | Keystroke Combination                                    |
|----------------------------|----------------------------------------------------------|
| 1. Change PIN using a Card | <b>* (Read Card) (Old PIN #) (New PIN #) (New PIN #)</b> |
| OR                         |                                                          |
| 1. Change PIN using ID     | <b>* (User ID #) (Old PIN #) (New PIN #) (New PIN #)</b> |

### Delete Card by User ID

Deleting by ID number will clear cards and PINS

| Programming Step               | Keystroke Combination    |
|--------------------------------|--------------------------|
| 1. Enter Program Mode          | <b>* (Master Code) #</b> |
| 2. Delete User Card by User ID | <b>2 (User ID) #</b>     |
| 3. Exit Program Mode           | <b>*</b>                 |

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### Visitor User Setting

There are 10 groups Visitor PIN/card available, the users can be specified up to 10 times of usage, after a certain number of times, i.e. 5 times, the PIN/card become invalid automatically.

| Programming Step         | Keystroke Combination                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Enter Program Mode    | <b>* (Master Code) #</b>                                                                                                                                                    |
| 2. Add Visitor PIN User  | <b>8 (0-9 #) (User ID #) (PIN #)</b><br>PIN is any 4-6 digits number except 1234                                                                                            |
| OR                       |                                                                                                                                                                             |
| 2. Add Visitor Card User | <b>8 (0-9 #) (User ID #) (Read Card #)</b>                                                                                                                                  |
| 2. Delete Visitor Users  | <b>2 (User ID #)</b>                                                                                                                                                        |
| 3. Exit Program Mode     | <b>*</b>                                                                                                                                                                    |
| Note:                    | Number of time is 0-9, 0=10 times<br>User ID number must be any number between 990-999<br>Visitor PIN/card must be unique, should be distinguished from common PIN and card |

## OTHERS

### Reset to Factory Default:

1. Power off
  2. Press the \* Button, hold it and power on
  3. There will be two beeps, release the button, then will have one beep
- The device reset to factory default successfully.

Remark: Reset to factory default, the user's information is still retained.

### Erase all Users

This will delete ALL User data.

1. Enter Program Mode by press: \* (Master Code) #.
2. Press 2 (Master Code) + #
3. Exit: \*

All configuration data is retained.

### Reset Strike-Out Alarm

Enter Master Code or Valid Card/PIN to silence

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### Simplified Instruction

| Function Description             | Operation                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Enter the Programming Mode       | <b>* (Master Code) #</b><br>(123456 is the default factory master code)                                                      |
| Change the Master Code           | <b>0 (New Master Code) # (Repeat New Master Code) #</b> (code: 4-6 digits)                                                   |
| Add Card User                    | <b>1 (Read Card) #</b>                                                                                                       |
| Add PIN User                     | <b>1 (User ID) # (PIN) #</b><br>The ID number is any number between 0 ~ 989. The PIN is any 4-6 digits between 0000 ~ 999999 |
| Delete User                      | <b>2 (Read Card) #</b><br><b>2 (User ID) #</b>                                                                               |
| Exit from the programming mode   | <b>*</b>                                                                                                                     |
| <b>How to be granted access.</b> |                                                                                                                              |
| Card User                        | <b>Read card</b>                                                                                                             |
| PIN User                         | <b>Enter (PIN) #</b>                                                                                                         |