Stand-alone Access Control

A7	A8	A9

User Manual
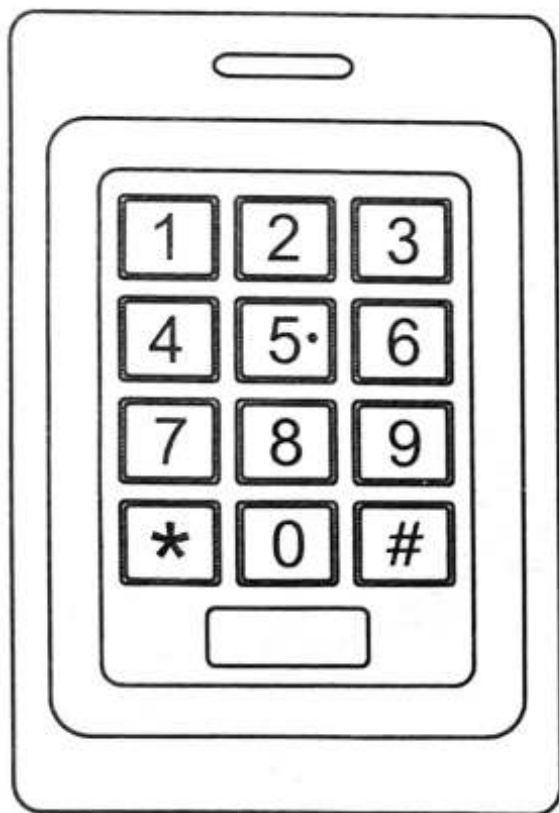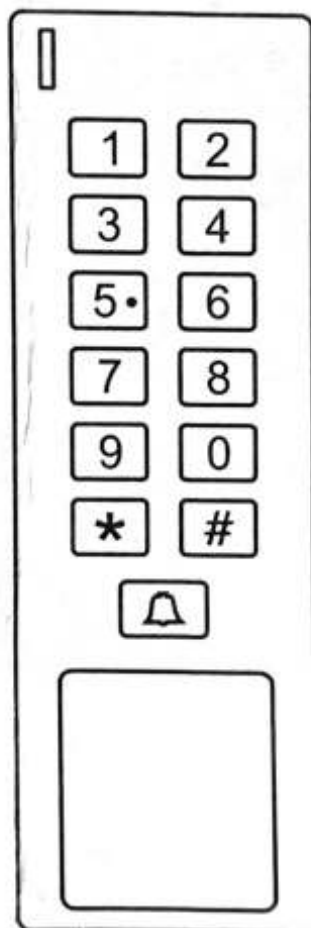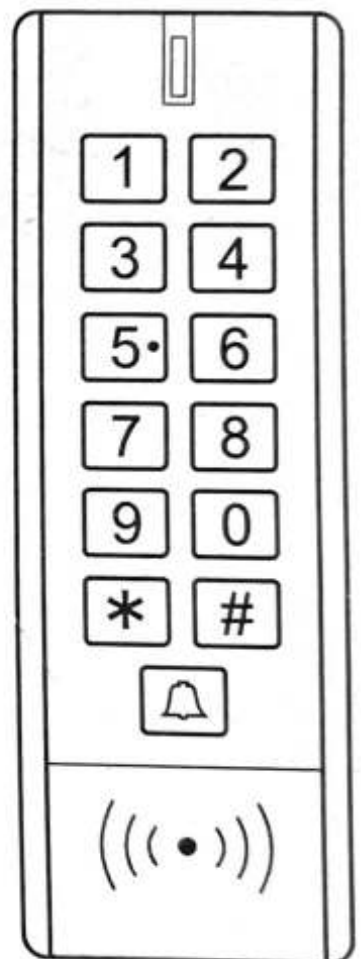
INTRODUCTION

This product is a contactless EM proximity card standalone access control. 1000 ordinary users and 100 Visitor users, It can be access by card, PIN, card + PIN.

Features and Benefits

> A7, A8 Zinc-alloy housing, A9 adopts ABS plastic case.

> Waterproof, conforms to IP67

> 1000 Ordinary users + 100 Visitor users

> PIN length: 4-8 digits

> Pulse Mode or Toggle Mode

> Door Bell button (A8,A9)

Specifications

Operating Voltage	10-24V DC
Idle Current	≤40mA
Active Current	≤80mA
Waterproof	IP67
User Capacity	1000 Ordinary Users+100 Visitor Users
Read Range	≤6cm
Card type	EM
Frequency	125KHz
Lock Output Load	≤2A
Alarm Output Load	≤500mA
Operating Temperature	-40°C ~ +70°C,(-40°F ~ +158°F)
Operating Humidity	10% ~ 98%RH

Dimensions	A7: L110xW76xH22mm A8: L129xW44xH20mm A9: L134xW48xH25mm
Unit Weight	A7: 500g, A8: 400g, A9: 175g
Shipping Weight	A7: 425g, A8: 335g, A9: 338g

Packing List
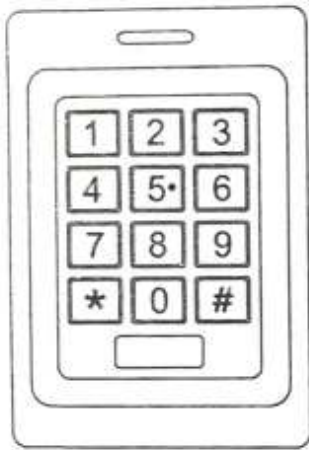
Wall Anchors

Self Tapping Screws

Screw Driver

Diode 1N4004
(For relay circuit protection)

INSTALLATION

1. Remove the back cover from the unit with screw.

2. Drill hole on the wall according to the back size of the machine and fix the back cover on the wall.

3. Thread the cable through cable hole, connect related cable. For the un-used cable please separate with insulating tape.

4. After wiring, install front casing and fix the back cover well with screws.
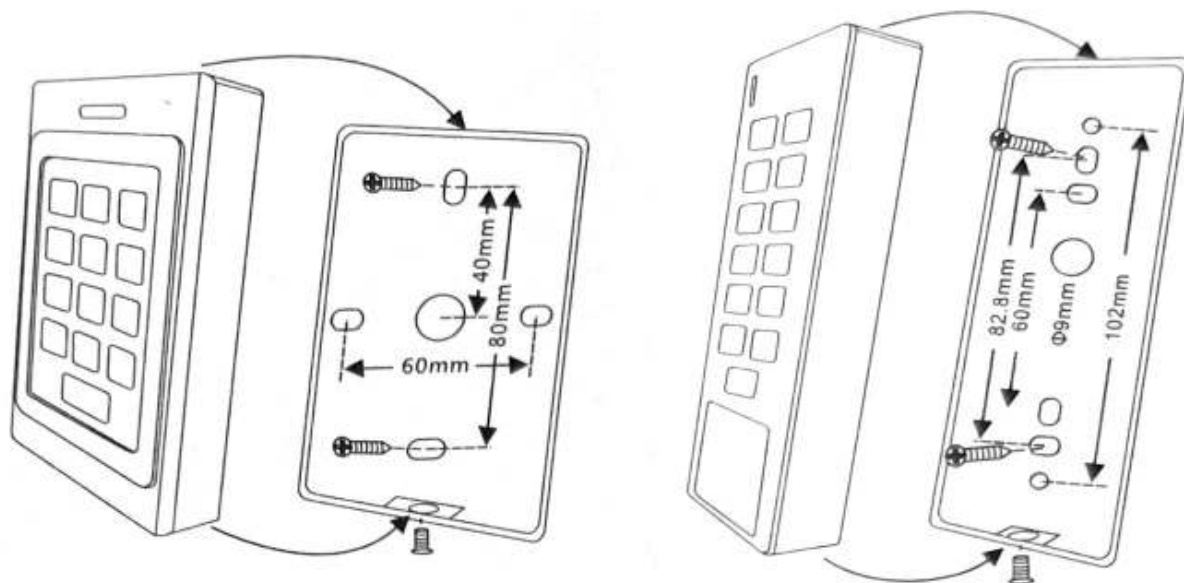
Wiring

Wire Color	Function	Notes
Green	NC	Relay NC
Brown	COM	Relay COM
White	NO	Relay NO
Black	GND	Negative Pole
Red	DC+	10-24V DC Power Input
Yellow	OPEN	Request to Exit Button
Blue	BELL	External BELL (A8,A9)
Grey	BELL	External BELL (A8,A9)

Sound and Light Indication

Operation Status	LED	Buzzer
Stand by Mode	Red light bright	- -
Enter program Mode	Red light shines	- -
In the Program Mode	Red light shines	- -
Open lock	Green light bright	One beep
Operation failed	- -	Three beeps

Factory Default Setting

power off, press exit button, power on, 5 seconds it until hear one beeps, the device enter standby mode, restore to factory default is done.

Note: Reset to factory default, the users' information won't be deleted.

Modify Admin Code

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) # (Factory default is 777777)	Red shines
Modify Admin Code	0 (New Admin Code) # (Repeat New Admin Code) #	Red shines
Exit Program Mode	*	Red bright

Note: The length of the admin code is 6 digits, the admin should keep it in mind.
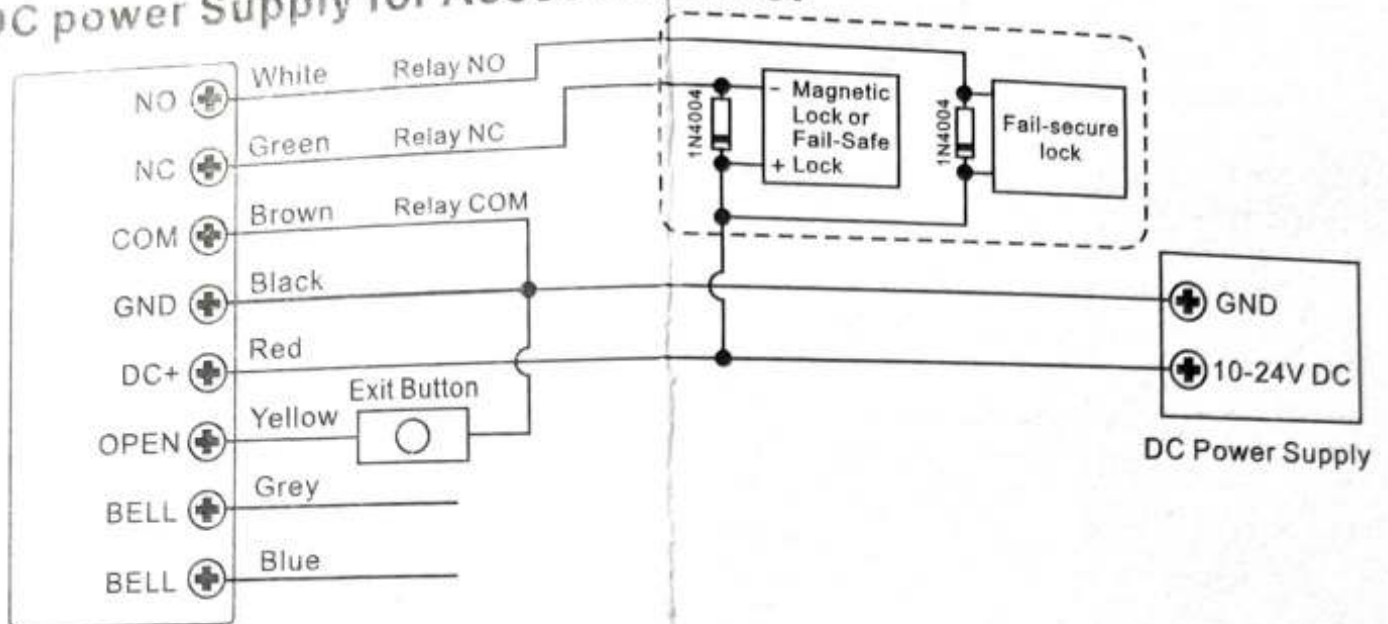
STANDALONE MODE
Connection Diagram
Special Power Supply for Access Control
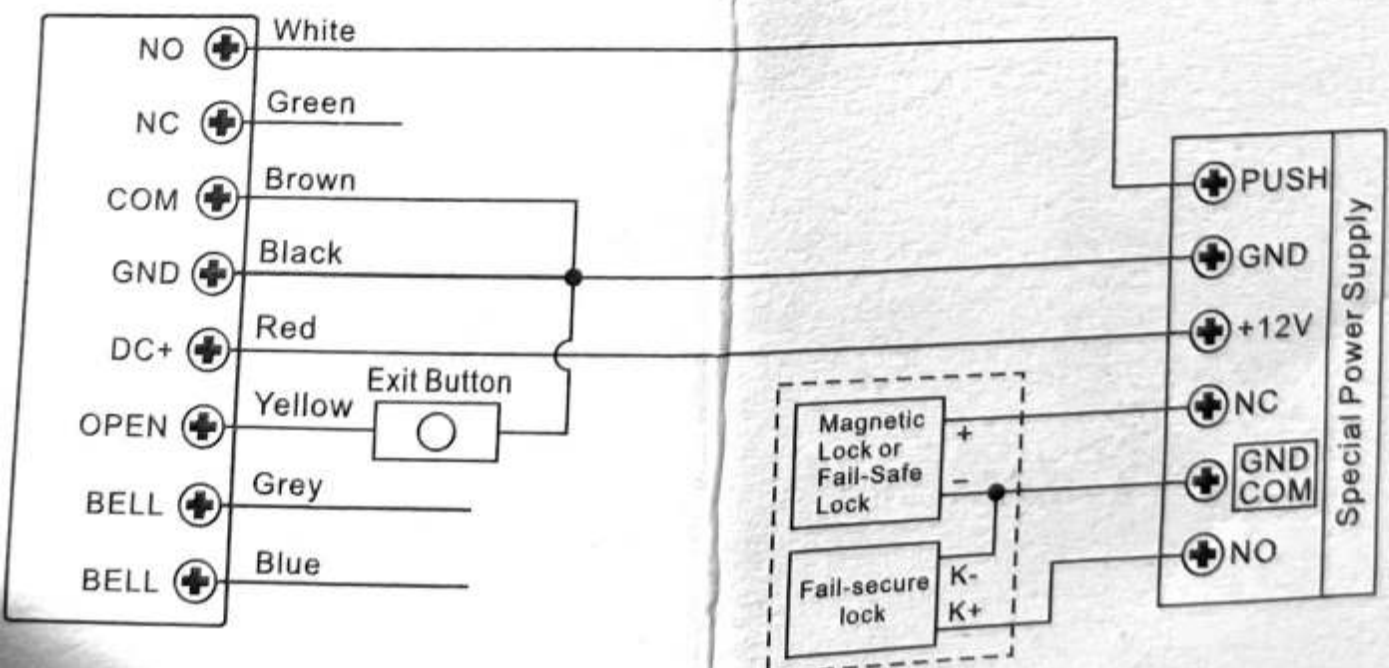
Simplified Instruction

Function Description	Operation
Enter the Programming Mode	*** (Admin Code) #** then you can do the programming. (777777 is the factory default Admin code)
Change the Admin Code	**0 - New Code - # - Repeat the New Code - #** (code:6 digits)
Add Card User	**1 - Read Card - #** (can add Cards continuously)
Add PIN User	**1- User ID# - PIN- #** (ID number:0-999)
Delete User	**2 - Read Card - #** for Card User **2 - User ID - #** for PIN or Card User (ID number:0-999)
Exit from the Programming Mode	*****
How to release the door	
Open door by card	(Read Card)
Open door by User PIN	(Users PIN) #
Open door by user card + PIN	(Read Card) (Users PIN) #

DC power Supply for Access Control

NO ⊕	White	Relay NO
NC ⊕	Green	Relay NC
COM ⊕	Brown	Relay COM
GND ⊕	Black	
DC+ ⊕	Red	
OPEN ⊕	Yellow	Exit Button
BELL ⊕	Grey	
BELL ⊕	Blue	

Magnetic Lock or Fail-Safe + Lock — 1N4004

Fail-secure lock — 1N4004

⊕ GND
⊕ 10-24V DC
DC Power Supply

Note: The electric locks must be connected with diode(1N4004), otherwise the device might be damaged. The white end of the diode is connected to positive pole of electric lock and the other end is connected to negative pole of the electric lock.

Enter and Exit Program Mode

Programming Step	Keystroke Combination
Enter Program Mode	∗ (Admin Code) # (Factory default is 777777)
Exit Program Mode	∗

Add Users by Keypad (ID Number: 0-999)

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	∗	Red bright

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 Users 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	*	Red bright

Note: 1. The ID number range of the visitor user: 00-099. 100 in total. The prefix 0 before the ID number indicates the visitor 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

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	*	Red bright

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	*	Red bright

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	*	Red bright

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.

Set Safe Mode

Programming Step	Keystroke Combination	LED
Enter Program Mode	*(Admin Code) #	Red shines
Normal Mode	6 0 # 0 # (Factory default)	Red shines
Lockout Mode	6 0 # 1 #	Red shines
Exit Program Mode	*	Red bright

Note: Lockout Mode: If swipe card/input PIN with invalid users for 10 times in 1 minute, the device will be lockout for 10 minutes. When the device repowered, the lockout will be canceled.

Tamper Alarm Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	*(Admin Code) #	Red shines
To Close Tamper alarm	6 1 # 0 # (Factory default)	Red shines
To Enable Tamper alarm	6 1 # 1 #	Red shines
Exit Program Mode	*	Red bright

Note: 1. After the tamper alarm is enabled, when keypad case is opened illegally, the keypad's buzzer, the controller's buzzer and the external alarm will make sound at the same time. The alarm lasts up to 1 minute. Alarm can be cancelled if the case is covered, administrator password or valid user password is inputed or the alarm time is up.
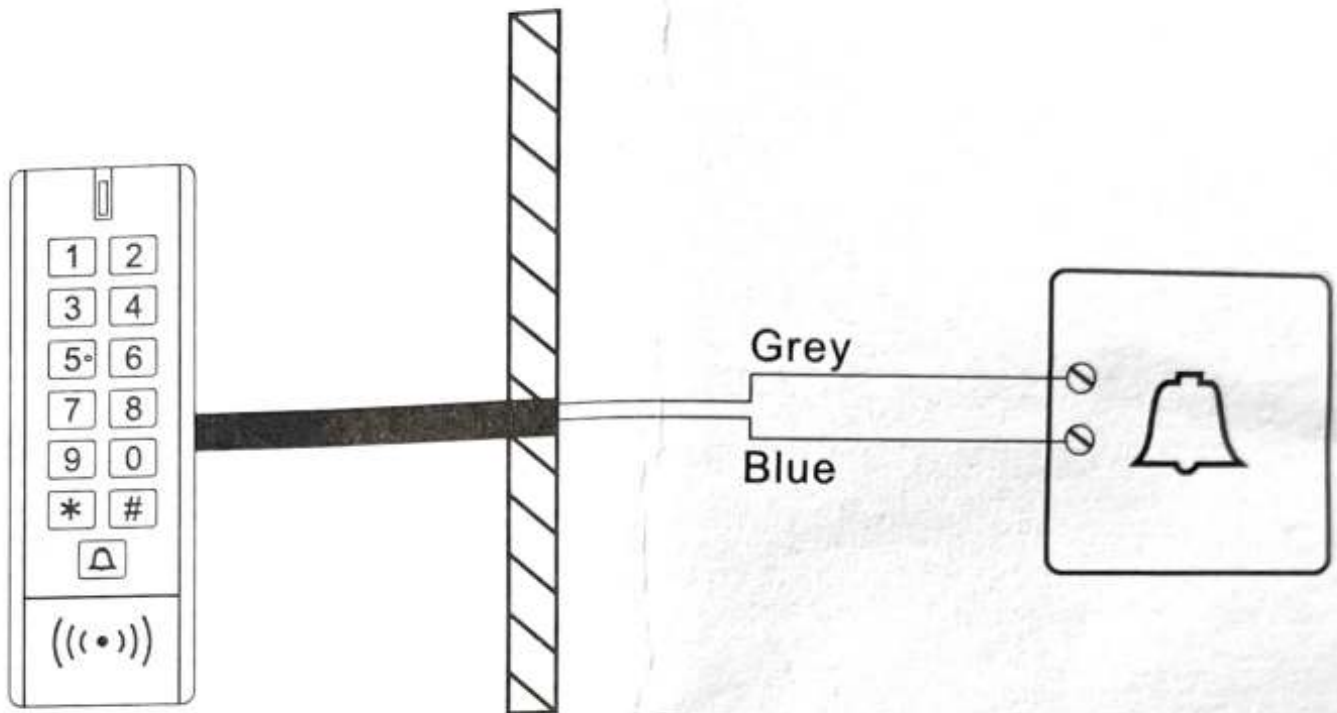
Sound control

Programming Step	Keystroke Combination	LED
Enter Program Mode	*(Admin Code) #	Red shines
Keypad Sounds: OFF	7 0 #	
ON	7 1 # (Default)	Red shines
Exit Program Mode	*	Red bright

Doorbell Wiring

Outdoor

Indoor

Grey

Blue

Users Setting

Change PIN

Programming Step	Keystroke Combination
Change PIN which attached to card users	* (Read Card) (old PIN)# (New PIN)# (Repeat New PIN)#
Change 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 release the door

Open door by card	Read Card
Open door by User PIN	(Users PIN)#
Open door by user card + PIN	Read Card (Users PIN)#

Lock immediately

Press 0 # in turn, Relay in the controller releases, make the lock lock.

Note: Set the access time to 10 seconds. Unlock and close the door after 3 seconds, the lock will not be locked due to the timing issue. If you want to lock the door at this time, press 0 # now.