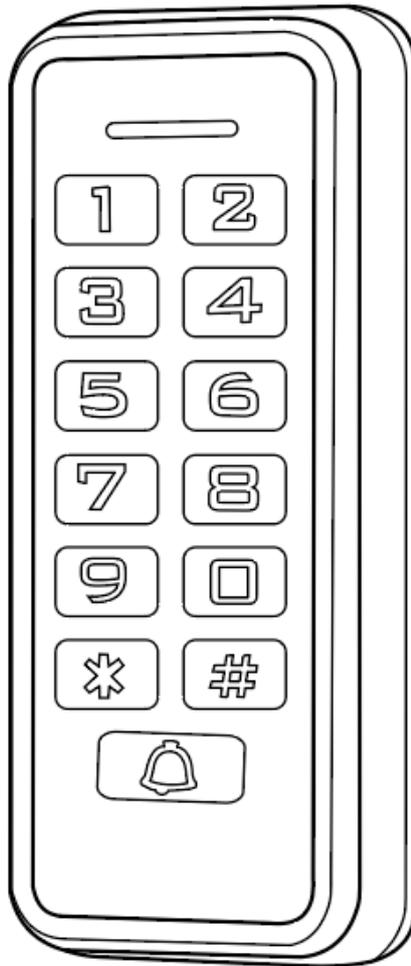# WIFI Access Control Manual

1 Product Introduction

The device is a WIFI access control keypad and proximity card reader,which supports EM & MF card types,it's one of the most advanced standalone access control.It adopts unique design, builds-in USA Atmel microprocessor, with strong anti-interference ability,high security and reliability,powerful function and convenient operation.It's widely used in high-end buildings, residential communities and other public places.

2. Feature

Ultra-low power consumption: Standby current is less than 30mA

Protocol: Wiegand26 Input/Output

Searching time: Less than 0.1s after reading card

Backlight keypad: Easy to operate at night

Doorbell interface: Support external wired doorbell

Access ways:Card,code,card + code,Mobile APP

3. Specification

Operating Voltage: DC12-24V	Standby Current: ≤30mA
Card Reading Distance: 2～5cm	Capacity: 10000 Users
Operating Temperature: -40℃～60℃	Operating Humidity: 10%～90%
Lock Output Load:≤3A	Alarm Output Load: ≤20A
Short-circuit Protection Output Time:≤100μS	Door Relay Time:0～300s

4. Sound & Light Indication

Operate Status	LED Light Color	Buzzer
Standby	Red Light Solid	
Keypad		Beep
Operation Successful	Green	Beep -
Operation Failed		Beep-Beep-Beep
Entering into Programming	Red	Beep -
Programmable Status	Orange	
Exit Programming	Flash Red Slowly	Beep -
Door Opening	Green	Beep -
Alarm	Flash Red Quickly	Alarm

5 Programming Guide:

Note: Program cod is not passcode .

Function	Operation steps	Notes
Change **Program** code	* | Program code | # | 0 | New code: 6 digits | # | New code | # | * | * to Exit	Factory Default Program code is 999999. The user can set factory default value if admin code is forgotten
Add card user	* | Program code | # | 1 | Read card ...# | * | * to Exit	Add card users continuously
Delete card user	* | Program code | # | 2 | Read card ...# | * | * to Exit	Delete card users continuously
Delete all user	* | Program code | # | 20000 | # | * to Exit	Delete all codes and cards
Add public code	* | Program code | # | 6 6 | # | 4-6 digits code | # | * to Exit	There is only 1 public code
Delete public code	* | Program code | # | 6 7 | # | 4-6 digits code | # | * to Exit	
Pair to WIFI	* | Program code | # | 6 3 | # | Green Light Blinking	See Another User manual of Wifi Set Up

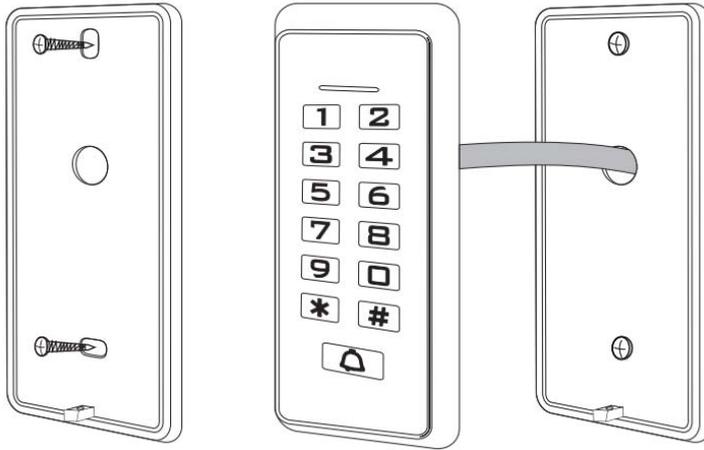## Note: Solid Red is standby mode . Blinking Red is Programming Mode. Green Light is input accepted.

6 Advanced settings

	Add Users		Notes
1	Add card	* | Program code | # | 1 | Read card ...# | * | * to Exit	Add card users continuously
	Add card number	* | Program code | # | 1 | 8 digits or 10 digits | # | * | * to Exit	Automatically generate ID number from 1 to 10000
	Add ID number + card	* | Program code | # | 1 | ID number:1-10000 | # | Read card | # | Read Another Card | # ......* | * to Exit	Add card users by specific ID number, find and delete easily .
	Add ID number + card number	* | Program code | # | 1 | ID number:1-10000 | # | 8 digits or 10 digits | # | * | * to Exit	Add card users by specific ID number and card number, find and delete easily.
	Add code	* | Program code | # | 1 | ID number:1-10000 | # | code:4-6 digits | # | Another code | # ....* | * to Exit	The code is any 4-6 digits, ID number is from 1-10000, code 1234 is unavailable.
2	**Delete Users**		
	Delete card	* | Program code | # | 2 | Read card | # | Read Another Card | # ......* | * to Exit	Delete Multiple card users
	Delete card number	* | Program code | # | 2 | 8 digits or 10 digits | # | * | * to Exit	Delete the card user by card number when the card is broken or get lost
	Delete ID number	* | Program code | # | 2 | ID number:1-10000 | # | * | * to Exit	Delete the card user by ID number when the card is broken or get lost
	Delete ALL users	* | Program code | # | 2 | 0000 | # | * to Exit	Delete ALL codes, card users and public PIN code.
3	**Access ways**		
	By card only	* | Program code | # | 3 0 | # | * to Exit	Enter by card only, keypad is invalid
	By card + code	* | Program code | # | 3 1 | # | * to Exit	To enable this function, the user code has to be changed. (See step 8)
	By card or code	* | Program code | # | 3 2 | # | * to Exit	Enter by card or code (factory default)
4	**Relay Output Time**		
	Set door unlock time	* | Program code | # | 4 | 0～300 | # | * to Exit	Time range is "0～300 sec"，default 5 sec
5	Set alarm time	* | Program code | # | 5 | 0～99 | # | * to Exit	Time range is "0～99 min "，default 0 min
6	**Door Open Detection / WIFI / Public PIN / Data backup**		
	Disable door contact	* | Program code | # | 6 0 | # | * to Exit	Not detect the door status(Default)
	Enable door contact	* | Program code | # | 6 1 | # | * to Exit	Detect door open or closed, and alarm is

			activated under abnormal situation
	WIFI Match	`*` `Program code` `#` `6 3` `#` Green Light Blinking	WIFI Match
	Add public code	`*` `Program code` `#` `6 6` `#` `4-6 digits` `#` `*` to Exit	There is only 1 public code
	Delete public code	`*` `Program code` `#` `6 7` `#` `*` to Exit	Delete public code
	Data backup sending	`*` `Program code` `#` `6 8` `#` `*` to Exit	
	Data backup receiving	`*` `Program code` `#` `6 9` `#` `*` to Exit	
7	**Security Mode**		
	Normal mode	`*` `Program code` `#` `7 0` `#` `*` to Exit	(Default)
	Locked mode	`*` `Program code` `#` `7 1` `#` `*` to Exit	The device will be locked for 10 minutes if input 10 times invalid cards or codes continuously
	Alarm mode	`*` `Program code` `#` `7 2` `#` `*` to Exit	The device will alarm if input 10 times invalid cards or codes continuously.
8	Enable light indicator	`*` `Program code` `#` `8 0` `#` `*` to Exit	(Default)
	Disable light indicator	`*` `Program code` `#` `8 1` `#` `*` to Exit	Turn it off when the indicator is unnecessary
	Enable buzzer	`*` `Program code` `#` `8 2` `#` `*` to Exit	(Default)
	Disable buzzer	`*` `Program code` `#` `8 3` `#` `*` to Exit	Turn it off when the beeper is unnecessary
	Enable keypad backlight	`*` `Program code` `#` `8 4` `#` `*` to Exit	Keypad backlight on
	Disable keypad backlight	`*` `Program code` `#` `8 5` `#` `*` to Exit	Keypad backlight off
	Keypad backlight automatically	`*` `Program code` `#` `8 6` `#` `*` to Exit	(Factory default）read card or press the keypad,it will be off after 10 secs.
	Standalone mode	`*` `Program code` `#` `8 7` `#` `*` to Exit	Factory default
	Relay toggle mode	`*` `Program code` `#` `8 8` `#` `*` to Exit	The door will Stay open until the user input code to lock.
	Reader mode	`*` `Program code` `#` `8 9` `#` `*` to Exit	Factory default wiegand26 output
	Reader mode	`*` `Program code` `#` `8 9` `2 6` `#` `*` to Exit	Wiegand26 output
	Reader mode	`*` `Program code` `#` `8 9` `3 4` `#` `*` to Exit	Wiegand34 output
	Change user code（No need to go to programming state）		
	Change user code by card	`*` `Read card` `1234` `#` `New code:4-6 digits` `#` `New code` `#` `*` `*` to Exit ★ factory default code: 1234	
	Change user code by ID number	`*` `ID number` `#` `Old code` `#` `New code:4-6 digits` `#` `New code` `#` `*` `*`to Exit	
9	**Relieve alarm（No need to go to programming state）**		
	When external alarm or buzzer alarm,read `Valid card` or Input `Program code` `#` ,relieve alarm.		
10	**Reset to factory default**		
	Power off, press `#` or exit button, then power on, release it until heard short BEEP sound twice, then `Program` code has been reset to 999999, factory default settings are successful. ★ Reset to factory default won't delete user data		

7.Installation

- ➢ Remove the back cover from the keypad using the supplied special screw driver
- ➢ Drill 2 holes on the wall for the self-tapping screws and I hole for the cable
- ➢ Put the supplied rubber bungs to into the two holes
- ➢ Fix the back cover firmly on the wall with 2 self tapping screws
- ➢ Thread the cable through the cable hole
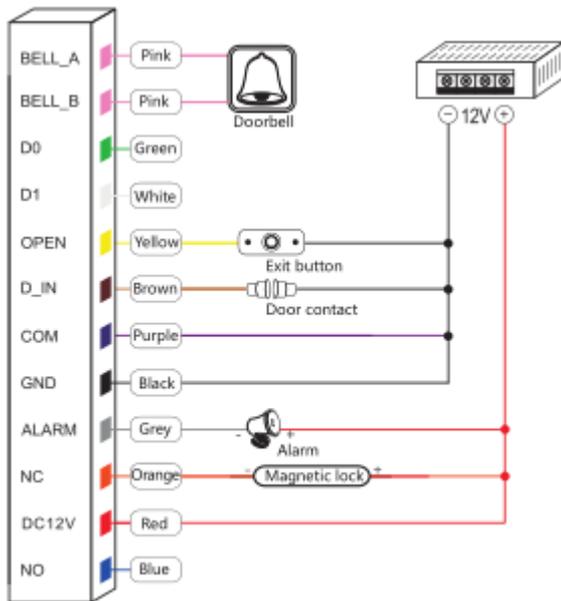- ➢ Attach the keypad to the back cover. (See the figure below)

8. Wiring diagram

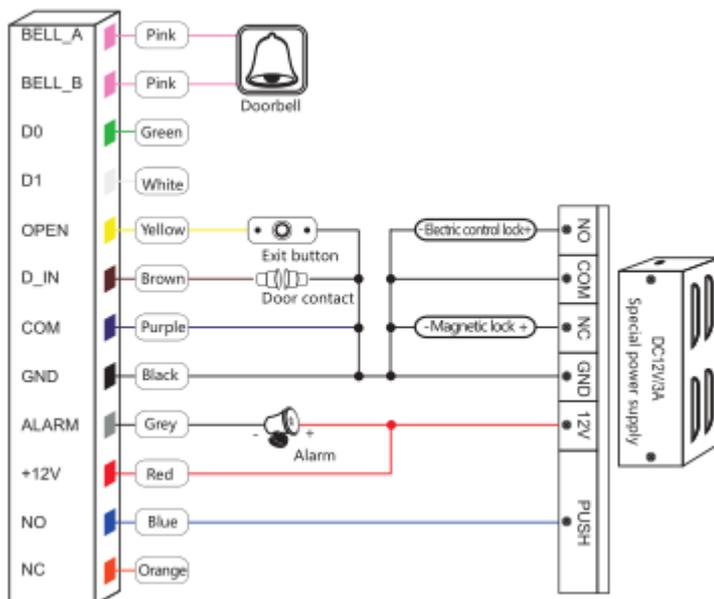| Item	Mark	Color	Function
1	BELL_A	Pink	Doorbell one end
2	BELL_B	Pink	Doorbell on the other end
3	D0	Green	Wiegand output
4	D1	White	Wiegand output
5	ALARM	Gray	Negative alarm(Positive alarm connects +12V) (Optional)
6	OPEN	Yellow	Exit button one end (On the other end connects GND)(Optional)
7	D_IN	Broun	Door contact switch one end(On the other end connects GND)(Optional)
8	DC12V	Red	Positive power supply
9	GND	Black	Negative power supply
10	NO	Blue	Relay NO end
11	COM	Purple	Relay COM end
12	NC	Orange	Relay NC end

9.Diagram

9.1 Common Power Supply

Note: The door contact and alarm function are optional

9.2 Special Power Supply

Note: The door contact and alarm function are optional

10. Packing List

Name	Model/Size	Quantity	Remarks
Standalone access control		1	
User manual		1	
Self tapping screws	Φ4mm×25 mm	2	Used in fixing
Rubber plug	Φ6mm×28 mm	2	Used in fixing
Star screw driver	Φ20mm×60mm	1	Special for Keypad
Star screw	Φ3mm×5mm	1	Used in fixing front cover and back cover

Warm Tips

* Please don't maintain devices privately, any issues, please turn back to factory.

* To avoid unnecessary trouble, please check concealed wires or line pipes carefully if need to drill a hole before installation, moreover, please wear security glasses when drilling a hole or fixing wires.

* If upgrade, manual will be changed a little.