

Access Controller / Reader WiFi Version	
1	3
2	4
3	5
4	6
5	7
6	8
7	9
8	10
9	11
10	12
11	13
12	14
13	15
14	16
15	17

User Manual

CONTENTS	
INTRODUCTION	INSTALLATION
1	3
STANDALONE MODE	CONTROLLER MODE
5	12
WIEGAND READER MODE	ADVANCED APPLICATION
14	15

INTRODUCTION	
The device is a single door multifunction standalone access controller or a Wiegand output reader. It uses ARM9 MCU ensuring stable performance. The operation is very user-friendly, and low-power circuit makes it long service life.	
The device supports 1,000 users (990 common users + 10 visitor users), all user data can be transferred from one to another. It supports multi-access modes in card access, PIN access, or multi-cards/PINs access. It has extra features including block enrollment, Wiegand input & output interface, etc.	
<b>Features</b>	
<ul style="list-style-type: none"> <li>&gt; WiFi 2.4G network</li> <li>&gt; Touch key</li> <li>&gt; Waterproof, conforms to IP66</li> <li>&gt; One relay, 1,000 users (990 common + 10 visitor)</li> <li>&gt; PIN length: 4-6 digits</li> <li>&gt; EM card: EM+ Mifare cards optional</li> <li>&gt; EM card: Wiegand 26-44 bits input &amp; output</li> <li>&gt; Mifare card: Wiegand 26-44bits, 58bits, 58bits input &amp; output</li> <li>&gt; Can be used as Wiegand reader with LED &amp; buzzer output</li> <li>&gt; Card block enrollment</li> <li>&gt; Irregular LED status display</li> <li>&gt; Pulse mode, Toggle mode</li> <li>&gt; User data can be transferred</li> <li>&gt; Built-in light dependent resistor (LDR) for anti tamper</li> <li>&gt; Backlit keypad, can set automatic OFF after 20 seconds</li> </ul>	
<b>Specifications</b>	
User Capacity	1000
Common User	990
Visitor User	10
Operating Voltage	12-18V DC
Working Current	<=100mA
Idle Current	<=60mA

INSTALLATION		
<ul style="list-style-type: none"> <li>&gt; Remove the back cover from the unit</li> <li>&gt; Drill 2 holes(A,C) on the wall for the screws and one hole for the cable</li> <li>&gt; Knock the supplied rubber bumps to the screw holes(A,C)</li> <li>&gt; Fix the back cover firmly on the wall with 4 fast head screws</li> <li>&gt; Thread the cable through the cable hole(B)</li> <li>&gt; Attach the unit to the back cover</li> </ul>		
<b>Wiring</b>		
Colour	Function	Notes
Red	+12V	12-18V DC Power Input
Black	GND	Negative Pole of DC Power Input
Blue	NO	Normally Open Relay Output
Purple	COM	Common Connection for Relay Output
Orange	NC	Normally Closed Relay Output
Yellow	OPEN	Request to Exit (REX) Input
White	DI1	Wiegand Output Input Data 1
Green	DI0	Wiegand Output Input Data 0
Grey	Doorbell B	Contact for Doorbell
Brown	Doorbell A	Contact for Doorbell

Sound and Light Indication		
Operation Status	LED	Buzzer
Stand by	Red light bright	-
Enter into programming mode	Red light shines	One beep
In the programming mode	Change light bright	One beep
Operation error	Red light shines	Three beeps
Exit from the programming mode	Red light bright	One beep
Open lock	Green light bright	One beep
Alarm	Red light shines quickly	Beeps

STANDALONE MODE	
The device can work as Standalone Access Control for single door. (Factory default mode) → 7 / 8	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Standalone/Controller Mode OR Wiegand Reader Mode	7 7 # (Factory default)
3. Exit	* #

Basic Configure	
<b>Enter and Exit Program Mode</b>	<b>Keystroke Combination</b>
Enter Program Mode	* (Master Code) #
Exit Program Mode	*

Set Master Code	
<b>Programming Step</b>	<b>Keystroke Combination</b>
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 Program Mode	*

Set the Working Mode	
Notes: The device has 3 working modes: Standalone Mode, Controller Mode, Wiegand Reader Mode, choose the mode you use. (Factory default is Standalone Mode / Controller Mode)	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Add Card User	1 (Master Code) # (Master Code) #

Add Common Users	
PIN card user is 990-999; PIN length: 4-6 digits	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Add Card User	1 (Master Code) # (Master Code) #

Add Visitor Users	
User ID number is 990-999; PIN length: 4-6 digits	
There are 10 groups Visitor PINs available, the users can be specified up to 10 times of usage, after a certain number of times, i.e. 5 times, the PINs will become invalid automatically.	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Add Card User	1 (Master Code) # (Master Code) #

Simplified Instruction	
Function Description	Operation
Enter the Programming Mode	* (Master Code) # then you can do the programming (123456 is the factory default master code)
Change the Master 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 - PIN - # (The PIN is any 4-6 digits)
Delete User	2 - Read Card - #
Exit from the Programming Mode	*
How to release the door	
Card User	Read Card
PIN User	Input PIN #

Delete Users	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Card/ PIN OR	2 (Read Card)/Input PIN #
3. Delete User - By ID number OR	2 (User ID) #
4. Delete User - By Card number OR	2 (Input 6/10/17 Digits Card Number) #
5. Delete ALL Users	2 (Master Code) #
6. Exit	*

Set Strike-out Alarm	
The strike-out alarm will engage after 10 failed entry attempts (Factory is OFF). It can be set to deny access for 10 minutes after engaging or disengage only after entering a valid card/PIN or Master code / card.	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Strike-Out OFF	6 0 # (factory default)
3. Strike-Out ON	6 1 # Access will be denied for 10 minutes (Exit button is still workable)
4. Strike-Out ON (Alarm)	6 2 #
5. Set Alarm Time	5 (0-3) # (factory default is 1 minute) Enter Master Code # or Master Card or valid user card/ PIN to silence
6. Exit	*

Set Access Mode	
For Multi user access mode, the interval time of reading can not exceed 5 seconds, or else, the device will exit to standby automatically.	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Card Access OR	4 0 #
3. PIN Access OR	4 1 #
4. Card or PIN Access OR	4 3 # (factory default)
5. Multi User Access	4 3 (2-9) # (Only after 2-9 valid users, the door can be opened)
6. Exit	*

Set Audible and Visual Response	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Disable Sound OR	7 0 #
3. Enable Sound	7 1 # (factory default)
4. LED Always OFF OR	7 2 #
5. LED Always ON	7 3 # (factory default)
6. Exit	*

Master Card Usage	
Users can add the Master Cards by themselves. Using Master Card to add and delete users	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Input (Master Card)	1 (Master Code) #
2. Input Card # (or PIN #)	Repeat step 2 for additional users
3. Input (Master Card) again	Repeat step 2 for additional users

Users Operation & Reset to Factory Default	
> Remove Alarm: Enter Master Code # or Master Card or valid user card/ PIN	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. 1 (Press Fingerprint A once on SF1) # (ID auto allocated)	1 (User ID) # (Press Fingerprint A on SF1) # (Select specific ID)
3. Exit	*

Set Wiegand Input Formats	
Please set the Wiegand input formats according to the Wiegand output format of the external Reader.	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Wiegand Input Bit	8 (4 or 8 or 10) # (factory default is 4 bits)
3. Exit	*

Wiegand Reader Mode	
The device can work as Standard Wiegand Reader, connected to the third party Controller → 7 8	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Wiegand Reader Mode	7 8 # (factory default)
3. Exit	*

Advanced Application	
<b>Collection Card Mode</b>	
After this mode is turned on, all cards can open the lock. At the same time, the card is added to the device.	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Program Mode	* (Master Code) #
2. Collection Card Mode OFF OR	9 2 # (factory default)
3. Collection Card Mode ON	9 3 #
4. Exit	*

Set Transferring on Master Unit:	
Within 30 seconds, Green LED shines, after one beep, the LED will turn into Red, which means the users' information has been transferred successfully.	
<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter the programming mode	* (Master Code) #
2. Set transferring	9 9 #
3. Exit	*