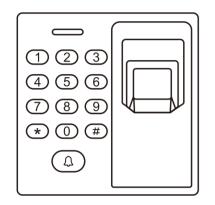
Fingerprint Access Control



User Manual

INTRODUCTION-

This is a very user-friendly device for using. It supports fingerprint, card and PIN, which offers users more choices to enter. The Wiegand interface makes it can work as reader connect with Wiegand 26 bits input controller. Also it supports downloading and uploading the users information by USB, users needn't register piece by piece.

Common Features:

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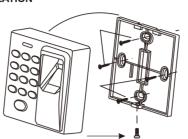
 1000 users

 One relay
 Pulse mode, Toggle mode
 Verification Method: Fingerprint, Card, PIN
 Card interface: 125KHz EM Card/Tag
 PIN length: 4-6 digits
 Communication: USB flash disk
 Support U disk copy fingerprint, card, PIN users information
 Multi-function device, support Wiegand 26 bits output

pecification	
User Capacity	1000
PIN Capacity	1000
Card Capacity	1000
Fingerprint Capacity	2000
Operating Voltage Idle Current Active Current	+12V ≤50mA ≤100mA
Fingerprint Reader Resolution Identification time FAR FRR	Optical Fingerprint Module 500DPI <1S <0.0001% <0.01%
Proximity Card Reader Radio Technology Read Range	Industry Standard 26 bits 125KHz Industry Proximity EM Card 1~5 cm
PIN Reader	4~6 digits PIN
Wiring Connections	Relay Output, Exit Button, Wiegand Output, Door Bell

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INSTALLATION —



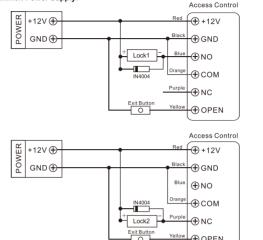
Wiring

Wire Colour	Function	Notes
Basic Stand Alone Wiring		
Red	12V DC	12V DC Regulated Power Input
Black	GND	Ground
Blue	Relay NO	Normally Open Relay Output (install diode provided)
Orange	Relay Common	Common Connection for Relay Output
Purple	Relay NC	Normally Closed Relay Output (Install diode provided)
Yellow	OPEN	Request to Exit (REX) Input
Pass-Through Wiring (Wiegand Reader)		
Green	Data 0	Wiegand Output (Pass-through) Data 0
White	Data 1	Wiegand Output (Pass-through) Data 1
Advanced Input and Output Features		
Brown	Bell +	Positive Contact for Door Bell
Grey	Bell -	Negative Contact for Door Bell

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Connection Diagram Lock 1: Fail-Secure Lock or Door/Gate Operator Lock 2: Fail-Safe Lock or Magnetic Lock

Common Power Supply:

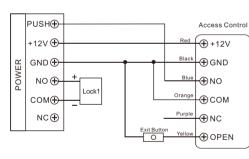


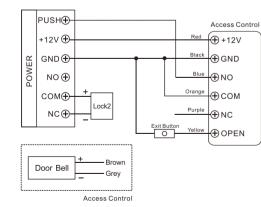
Door Bell

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)

Add Fingerprint User User ID # PIN # (PIN can be any 4~6 digits number, can add PIN Delete User How to release the door Fingerprint User Card User Read card PIN User PIN#

Access Control Power Supply:





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PROGRAMMING -

Programming 1 ------Programming Fingerprints, Cards, and PINS GENERAL PROGRAMMING INFORMATION

- Master Fingerprint / Card: Up to 5 Masters, they need to be added firstly, and it will be the only way to enter into programming mode.
- User ID Number: Assign a user ID number to the access code in order to keep track of the users. The user ID number can be any number from 1~9999.
- IMPORTANT: User IDs do not have to be proceeded with any leading zeros. Recording of User ID is critical. Modifications to the user require the User ID or card be available.
- Same ID number can be used for 4 Fingerprints, 1 Card and 1PIN. If delete users by ID number, all users of this ID number will be deleted.
- Proximity Card: Any 125KHz industry standard 26 bits EM card. • PIN: Any 4-6 digits number

SET MASTER FINGERPRINT(S)/CARD(S)(UP TO 5 MASTERS)

Programming Step	Keystroke Combination
Enter Program Mode	* (123456)
Add Master Fingerprint OR Add Master Card	*1 (Fingerprint) (Repeat Fingerprint) The Master Fingerprints can be added continuously *1 (Read Card) The Master Cards can be added continuously
3. Exit	Press #

ADD USER FINGERPRINT(S)

ADD OSERT INGERFRINT(S)	
Programming Step	Keystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
Add Fingerprint: Using Auto ID (Allows to assign Fingerprint to next available User ID number) OR	(Fingerprint) (Repeat Fingerprint) Repeat Step 2 for additional user Fingerprin
Add Fingerprint: Select Specific ID (Allows Master to define a specific User ID to associate the fingerprint to)	(User ID) # (Fingerprint) (Repeat Fingerprint) The user ID of Fingerprint is any number
3. Exit	from 1-9999 Input (Master Fingerprint / Card)
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ADD USER CARD(S)

2 Pin cable (Power)

Relay
Adjustable Relay Output Time
Lock Output Load
Alarm Output Load

Carton Inventory

One (NO, NC, Common)

Wiegand 26 bits Fo

ABS 88*88* 30mm

(For relay circuit protection) Self Tapping Screws(4X2

=

Wall Anchors(4X25mm)

Programming Step	Keystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
Add Card: Using Auto ID (Allows to assign card to next available User ID number) OR	(Read Card) Repeat Step 2 for additional user cards
Add Card: Select Specific ID (Allows Master to define a specific User ID to associate the card to)	(User ID) # (Read Card) The user ID of Card is any number from 1-9999
3. Exit	Input (Master Fingerprint / Card)

ADD USER PIN(S)

Programming Step	Keystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
Add PIN: Select Specific ID (Allows Master to define a specific User ID to associate the PIN to)	(User ID) # (PIN) # The user ID of PIN is any number from 1-9999
3. Exit	Input (Master Fingerprint / Card)

DELETE USER FINGERPRINT(S) OR CARD(S) OR PIN(S)

1. Input (Master Fingerprint / Card) Twice within 5 Seconds Input (Fingerprint / Card) 2. Delete User – By Fingerprint/Card

8 Pin cable

Programming Step	Keystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
Add Card: Using Auto ID (Allows to assign card to next available User ID number) OR	(Read Card) Repeat Step 2 for additional user cards
Add Card: Select Specific ID (Allows Master to define a specific User ID to associate the card to)	(User ID) # (Read Card) The user ID of Card is any number from 1-9999
3. Exit	Input (Master Fingerprint / Card)

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Programming Step	Keystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
Add PIN: Select Specific ID (Allows Master to define a specific User ID to associate the PIN to)	(User ID) # (PIN) # The user ID of PIN is any number from 1-9999
3. Exit	Input (Master Fingerprint / Card)

Method 1:

Frogramming Step	Reystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
2. Delete User – By User ID OR	* 2 (User ID) #
Delete User – By Fingerprint/Card OR	* 2 (Input Fingerprint / Card)
2. Delete ALL User	* 2 (0000) #
3. Exit	Input (Master Fingerprint / Card)

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PROGRAMMING 2 ————————————————Configure the Device Change the configure settings according to your application (optional).

SET RELAY CONFIGURATION

Programming Step	Keystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
Pulse Mode OR Toggle Mode	* 3 (1-99) # The relay time is 1-99 seconds(1 is 50ms) Default is 3 seconds * 3 0 # Sets the relay to ON/OFF toggle mode
3. Exit	Press #

RESET the DEVICE:

1. Reset the device with new Master

(It is very helpful when the manager lost Master Card, or people with Master Fingerprint/Card has left)

Power off, press #, hold it, and power on, after 5 seconds, there will be a long beep, means delete the Old Master successfully, then release the button. The Master Code will back to default" 123456". Please change it if necessary.

After the setting, all user information and settings are still retained.

2. Reset to Factory Default

Programming Step	Reystroke Combination
Enter Program Mode	Input (Master Fingerprint / Card)
2. Reset to Factory Default	* 9 0 (All fingerprint/card information will still be retained)
3. Exit	Press #

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DELETE ALL USERS and MASTERS

,	
Keystroke Combination	
Input (Master Fingerprint / Card)	
*91	
Press #	

DELETE MASTERS (Master Finger

CLETE MASTERS (Master Fingerprint / Card)		
Programming Step	Keystroke Combination	
Enter Program Mode	Input (Master Fingerprint / Card)	
2. To Delete Master Fingerprint / Card	*92	
3. Exit	Press #	

Download/upload Users' information by USB

This device can download/upload all the users' information (Fingerprint, Card, PIN) by

 Connect the device with the Flash Drive or some thing similar by the USB cable provided. The LED will flash in blue

2. Input (Master Fingerprint/Card)
The LED will turn in blue, and there will be a long beep, means download the users' information successfully.

USB cable.

2. Input (*123456)
The LED will turn in blue, and there will be a long beep, means upload the users' information successfully.

OTHERS -

1. Users Operation Open the door

- poi: aio aoo:	
Fingerprint User	Input Fingerprint
Card User	Read Card
PIN User	PIN#

 $\textbf{Remove Alarm:} \ \mathsf{The \ Master \ Fingerprint/Card}, or \ \mathsf{any \ valid \ users}.$

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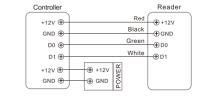
2. Sound and Light Indication

Operation Status	LED	Buzzer
Stand by	1 Red flash / 10 seconds	_
Enter into programming mode	Red Steady	One beep
In the programming mode	Blue/Purple Steady	One beep
Operation succeed	1 Blue flash	One long beep
Operation error	1 Red flash	Three beeps
Exit from the programming mode	_	One beep
Open lock	1 Blue flash	One beep

This device can be operated as a Wiegand Output Reader to the Controller. In this mode, the device supports Wiegand 26 bits output, so the Wiegand data lines can be connected to any controller which supports a Wiegand 26 bits input.

PIN User: Output is PIN number Card User: Output is card number Fingerprint User: Output is user ID number

The connection diagram is as below:



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