User Manual

Access Control System

Version: 1.0 Date: 2016.12

1. Equipment Installation

Installation Method 1: Wall Mounting



(1) Remove the screw from the bottom of the device



the device



(2) Remove the back cover of (3) Fix the back cover on the wall. (Drill the wiring hole and fixing holes according to the back cover)







Tamper Alarm Button

4) Install the device on the fixed back cover

5) Fix the device on the back cover using screws.

Installation Method 2:86 Box Mounting



- (1) Remove the screw from the bottom of the device.



- (2) Remove the back cover of the device.
- (3) Fix the back cover to 86 box on the wall



- 4) Install the device on the back cover The back cover is fixed on the 86 box
- 5) Fix the device on the back cover using screws.

2. Structure and Function



Access Control System Function:

- When a registered user's identity is verified, the Access Control device will send out signal to unlock the door.
- (2) The door sensor will detect the status of the lock. If the door is unexpectedly opened or improperly closed, an alarm will be triggered.
- (3) It supports the exit button for opening the door from inside.
- (4) It supports door bell.
- (5) If the Access Control device is dismantled, the alarm will be triggered.

3. Lock Connection

A Warning: No operation when power on!

- (1) The system supports NO LOCK and NC LOCK. The NO LOCK (normally open at power ON) is connected with **NO** terminal, and the NC LOCK is connected with **NC** terminal.
- (2) To prevent the generation of self-inductance EMF which would affect the system, when the electrical lock is linked to the Access Control System, it is required to connect one FR107 diode (equipped in the package, do not reverse the polarities) in parallel in order to release the self-inductance EMF.
- (1) Device shares power with the lock

The device shares power with the lock, when U_{LOCK} =12V and H_{LOCK} >1A... ①and the lock is near to the device.



- (2) Does not share power with the lock
- The device does not share power with the lock:
- A. When $U_{LOCK} = 12V I I_{LOCK} \le 1A$;
- B. When ULOCK \neq 12V;
- C. When the lock is far apart from the device.



OI: device' current output, **U**LOCK: lock voltage, **I**LOCK: lock current.

(3) One device controls two locks

(4) Two devices control one lock





4. Connection with Other Devices



Only devices with an alarm consuming <=12V DC can be connected.



Conventions Key $\begin{bmatrix} # \end{bmatrix}$ Confirm Light Green: Success Digit Password = 4 digit Key $\begin{bmatrix} * \end{bmatrix}$ Cancel Status Red: Failure Digit User ID ≤ 5 digit Hint Success: A long beep Failure: Two short beeps Error: Four short beeps Error: Four short beeps

Note: After entering password/user ID, user must press # to confirm; press * to return to initial state.

6. Instructions

Step1: Power ON after the device is completely installed.

Step 2: Verify administrator using default password and register fingerprint immediately. Adjust access control parameters including 8 group passwords, authentication mode, door sensor mode, alarm etc.

Step 3: You can register user, enroll card, fingerprint or 8 group passwords.

7. Administrator Operation

To ensure data security of the device, users can operate the device only after the

administrator password is authenticated.

Register Administrator Fingerprint



O Note: The default administrator password is 1234. You are advised to change the initial password at the beginning. After administrator fingerprint (only can register one fingerprint) registered successfully, the initial password is involted.

registered successfully, the initial password is invalid.

Changing Administrator Fingerprint



Forget Administrator Fingerprint

If the administrator password is forgotten, please dismantle the device and wait 30 seconds when there is a short beep, then press the Tamper Switch three times to reset to the initial administrator password, note this operation must be done within 30 seconds. **Note:** The initial administrator password is 1234.

8. Adding/Editing Users

Each user can register up to 10 fingerprints and 1 card.



🙂 Note:

- ${f D}$ Enter user ID to add new user. If the user ID already exists, the device defaults to edit the user.
- ② After registering a fingerprint successfully, the indicator turns green and makes a long beep; you can continue to register other fingerprints, 10 at most.
- ③ If the user ID, fingerprint or the card has been registered already or an error occurred while registering, the indicator turns red and generates four short beeps indicating that the registration fails. You can start registering the user again when the indicator turns green.

9. Registering Access Passwords

This device supports 8 group passwords, each password has a Group ID rangedfrom 1~8.

The default password value is 0 for all groups, which means those passwords are disabled.



10. User Authentication

Fingerprint/ Card /Password Authentication

When the device is powered ON, it enters user authentication state (blue light flash).



 $^{\odot}$ Note: The door opens only if the entered password matches with one of the 8 passwords. The

initial eight passwords for opening the door are set to 0.

11. User Deletion





12. Unlocking Duration Configuration (default duration: 6s)



Note: Values greater than 10 will be considered invalid. The indicator turns red and makes four short beeps. It is recommended to use default settings in access control. User can set according to actual needs.

13. Authentication Mode Configuration (default mode: FP/PW/RF)



Solution (Context and a second second

Authentication Mode	Value	Description
PW	1	Only password verification
RF	2	Only RF card verification
FP	3	Only fingerprint verification
FP/PW/RF	4	fingerprint or password or RF Card verification
RF&PW	5	RF Card and password verification (swipe card before entering password)
FP&PW	6	fingerprint and password verification (fingerprinting before entering password)



15. Alarm Configuration

Note: If an alarm is triggered, when the door status is normal, it will be terminated after the user is authenticated; when the door is in abnormal state, it will be terminated only after the administrator is authenticated.

Configuring Alarm Switch

Administrator Authentication Alarm, Tamper Alarm and Door Sensor Alarm will be effective only if the alarm switch is set to ON status.

ONote: The default status of the alarm switch is ON. The alarm will not be triggered if the alarm switch is set to OFF status.



Configuring Administrator Authentication Alarm*

If the administrator fails in authentication in 3 attempts, Administrator Authentication Alarm will be triggered. No authentication can be made within 20 seconds. The default status of the



② When an alarm is triggered, the device interior alarm will be triggered first. After 30 seconds, the device exterior alarm will be triggered.

Factory Defaults (Eight passwords for opening the door are set to 0 after reset)

Defaults
бѕ
Fingerprint/Password/RF Card
None
enable
enable
enable
10s

Technical Specifications

Fingerprint Collector	SilkID Fingerprint Reader
Кеу Туре	Touch key
User Capacity	500
Fingerprint Capacity	500
Card Capacity	500
Access Control Function	Unlocking, Alarm, Lock driver time length
Alarm Function	Tamper Alarm, Failed Authentication Alarm, Door Sensor Alarm
Doorbell	External wired doorbell