



SA-X6 Fingerprint standalone access controller

Version 1.0

1. Install the machine

Installation Method 1: Wall mounting



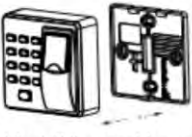
1) Remove the bottom screw with a screwdriver.



2) Take the back cover off the machine.



3) Focus the drilled hole on the wall and fix the back cover on the wall by screws.



4) Install the machine on the fixed back cover.



5) Fix the machine on the back cover.



6) Tamper resistant switch

Installation Method 2: 86 box mounting



1) Remove the bottom screw with a screwdriver.



2) Take the back cover off the machine.



3) Fix the back cover on the 86 box on the wall

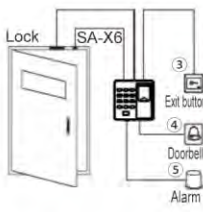


4) Install the machine on the back cover (which is fixed on 86 box).



5) Fix the machine on the back cover.

2. The Diagram for SA-X6



The function introduction of the SA-X6 system:

1. After punch cards or press finger, the machine will send the signal and the lock will be opened.
2. Magnetic sensor automatically detects whether the door is open or is closed. If the door open accidentally or is not closed, Sensor will trigger alarm signal (switch signal).
3. It can be connects with exit button which is easy to open the door in the room.
4. It can be connects with doorbell
5. When SA-X6 illegally removed, the machine will activate alarm signal.

3. Connecting the door lock

Warning: Do not connect wires when the electricity is on.

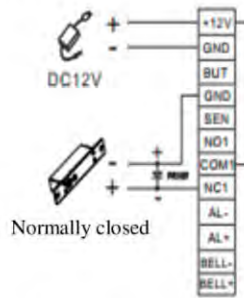
Note: 1. The machine can support the normally open and normally closed type of lock, as long as the connection can be connected to different terminals. For the lock which opens when the power is turned on and is close when the power is turned off, the NO terminal should be used; while for the lock which is closed when the power is turned on and opens when the power is turned off, the NC terminal should be used.

2. In order to prevent the influence to the SA-X6 from the electromotive force which is produced when the lock open or closed, in the field of application of wiring, a FR107 diode shall be parallel connected to the lock (the machine is equipped with diode, do not reverse the positive and negative poles) which is to release the electromotive force which is produced when the lock opens or is closed.

1) The machine and the lock use standard 12V power supply, as PS-200B or PS-300B

$$U_{lock}=12V, I_{lock}>1A...①$$

And the distance between the machine and the lock is little.

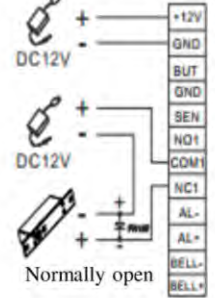


1) The machine and the lock don't use the common power supply

$$1) U_{lock}=12V \text{ 且 } I_{lock}\leq 1A;$$

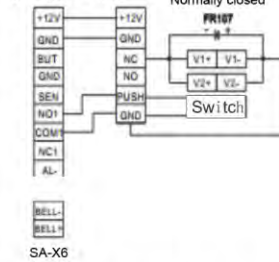
$$2) U_{lock}\neq 12V;$$

3) And the distance between the machine and the lock is large.

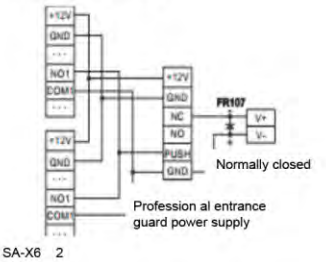


1. I is defined as the power output of the machine. Ulock is defined as the working voltage of the lock; and Ilock is Defined as the working electricity of the lock.

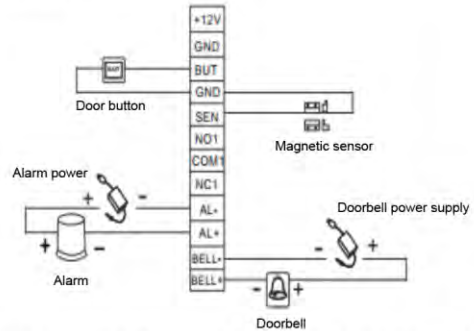
Professional entrance guard power supply



Entrance guard machine 1

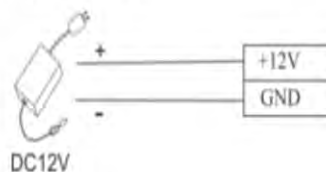


4. Other connection device



Note: This machine can only be connected to the alarm with the output less than or equal to DC12V.

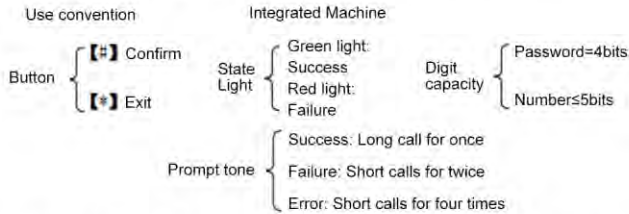
5. Connecting the power supply





The working power supply is DC12V, the working current is 500mA and the standby current is 50mA. Connect the positive and negative poles of the power supply between +12V and GND (please do not connect the positive and negative poles), the machine can work.

Operating Instructions of Entrance Guard



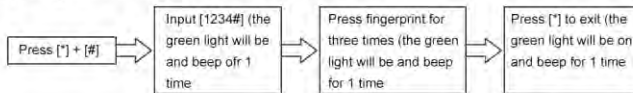
Note: After inputting the password or number, be sure to press 【#】 for confirm. 【*】 is used to exit to the initial state.

1. User management

1.1 Administrator operation

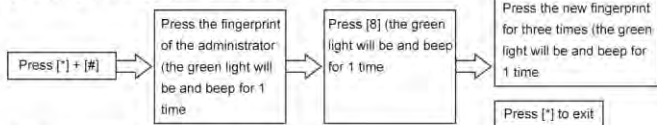
In order to ensure the safety of the data in the device, the operation can be done after the verification of the administrator.

◆ Register the fingerprint of the administrator



Note: After the fingerprint of the administrator is registered (only 1 can be registered), the initial password is invalid.

◆ Modify the fingerprint of the administrator

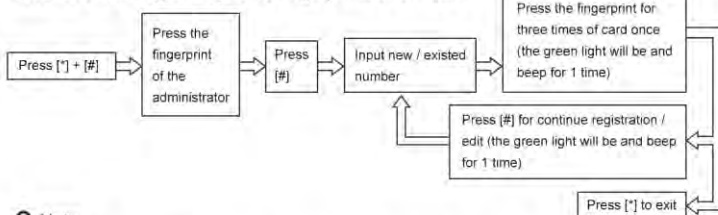


Modify the fingerprint of the administrator

Note: Please contact after-sales service: email: sales@s4a-access.com

1.2 Add / edit users

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

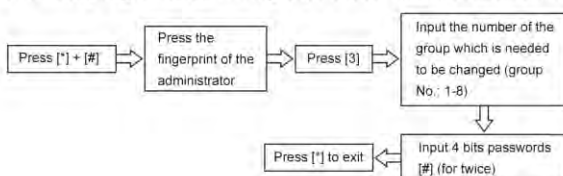


Note:

- The new user must input the number, if the number already exists, then the device by default edit the user.
- After registering one fingerprint of the user, the green light of the device will be on with a beep, after which continue to register other fingerprints of the user. 10 fingerprints can be registered.
- During the operation of registering fingerprint or card, if an error occurs or repeats, the red light of the device will be on and the device will be short call for four times and then the green light will be on. The operation can be done directly without re-registration. No limit on the number of operations.

1.3 Register 8 groups of door open passwords

The device supports up to 8 group door open passwords. Each password corresponds to number (range: 1 to 8). The 8 groups of door open passwords are all empty.



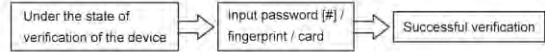
Note:

- When a group of password is changed to 0000, the password function can be closed.
- After successfully modifying a group of password, input next group of password which is needed to be modified, and directly begin to modify the next group of password.

1.4 Users verification

Fingerprint / card / password verification

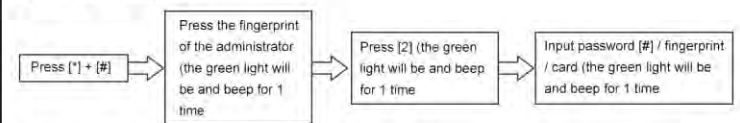
After the power is turned on, the device is in a state of verification (green light flashing), the user can conduct the verification operation.



Note: In the password verification, as long as the input password is the same as one group of door open password confirms in the 8 groups of passwords, the door will be opened. The initial 8 groups of passwords of the device are empty.

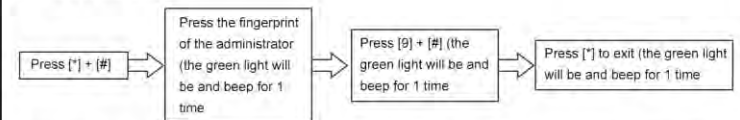
1.5 Delete users

◆ Delete a single user



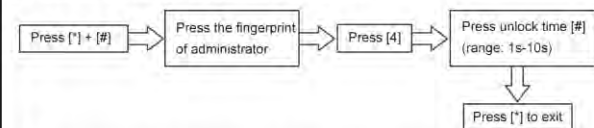
Note: After deleting one user, before pressing 【*】 to exit the delete operation, the number / fingerprint / card of the next user can be input to conduct the user delete operation.

◆ Delete all users

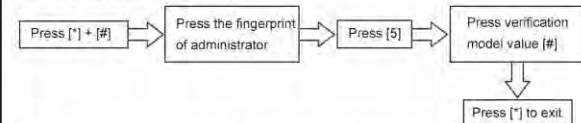


2: SA-X6 access control configuration (the default settings are suggested to use. It can also be set according to your demand)

2.1 Set the unlock time (default 6 seconds)



Note: When the unlock time is longer than 10, the red light will be on and the device will short call for 4 times.



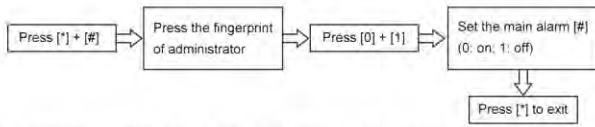
Note: Verification model details are as follows:

Verification type	Value	Description
PW	1	Password verification only
RF	2	Card verification only
EP	3	Fingerprint verification only
FP/PW/RF	4	Fingerprint or password of card verification
RF&PW	5	Card and password verification (first card and password)
FP&PW	6	Fingerprint and password verification (first fingerprint and password)

2.4 Set the alarm

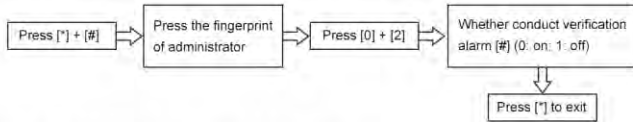
Note: If the alarm is triggered, when the door sensor state is normal, the alarm can be terminated by users after verification; when the door sensor is in non-working state, the alarm can only be terminated by the administrator after verification. This switch is the main switch of the alarm of the device. When the function is on, fault alarm, machine removal alarm and magnetometer alarm will be normally work. If not, these alarms cannot be triggered.

Setting of the main alarm switch (default open)



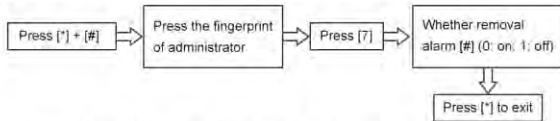
◆ Administrators authenticate alarm settings (Default open)

If this function is turned on, 3 consecutive failure administrator verification operations will trigger the alarm. The administrator cannot conduct the verification operation in 20 seconds.



◆ Alarm for machine remove (default Activate).

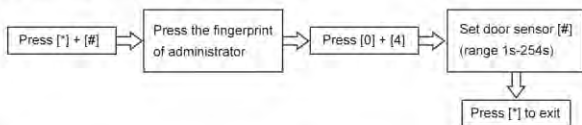
If the function is on, if the machine is removed, the alarm is on.



◆ door sensor delay alarm settings (Default 10 seconds)

Door sensor delay is the delay to check, after the door is open or close.

When the door opening time reaches the setting time of door sensor delay, then door sensor begins to be detected. If the state of door sensor is not consistent to the setting model of sensor settings, the alarm is on.



© Note:

When the input door sensor delay > 254, red light short sounds four times.
After triggering the alarm, the first is the buzzer alarm, after 30 seconds, switch to alarm.

Restore factory defaults

Type	Defaults
Unlock door time	6 seconds
Verificate mode	Fingerprint or password or card verification
Magnetic sensor mode	No magetic sensor
Main alarm switch	On
Administrator authentication	On
Alarm for machine remoe	On
Magnetic sensor delay	10 seconds

Technical parameters

Fingerprint collector	Infrared finger print sensor
Button type	Mechanical keys
User capacity	500
Fingerprint capacity	500
Card capacity	500
Access control function	Unlock the door, Alarm, etc
Alarm function	Alarm for illegal remove, illegal door open or unlocked door.
doorbell	Can be connected external wired door bell