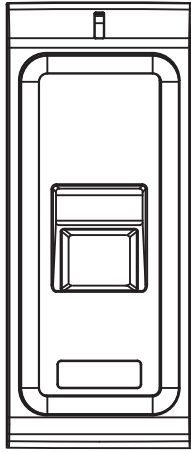# S4A ®

S4A Industrial Co.,Limited
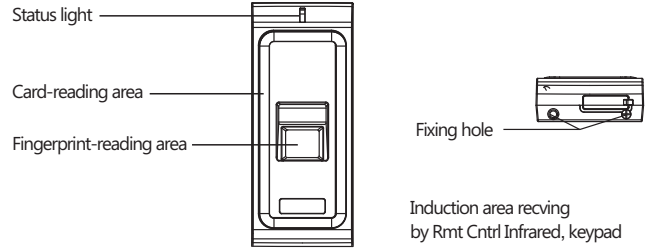
Fingerprint Reader Access Control System

User Manual

☺ Due to continuous update of our products


I. Product Overview and Installation Instruction

Applicable Models

Status light

Card-reading area

Fingerprint-reading area

Fixing hole

Induction area recving
by Rmt Cntrl Infrared, keypad

| S.N.	Functions
1	Dark-background fingerprint reader
2	User verification with fingerprint or card
3	Tamper alarm
4	Reading head for data output

· Operating Environment is as follows.
· Room temperature: -20°C-+50°C
· Relative humidity: 95%
· Operating Voltage & Current as follows.
· Input DC: +12V
· Standby current: ≤60mA
· Operating current: ≤120mA

Mounting screws

Fixed screws
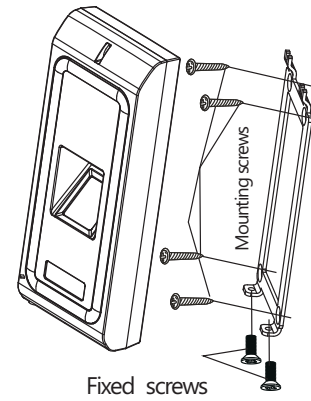
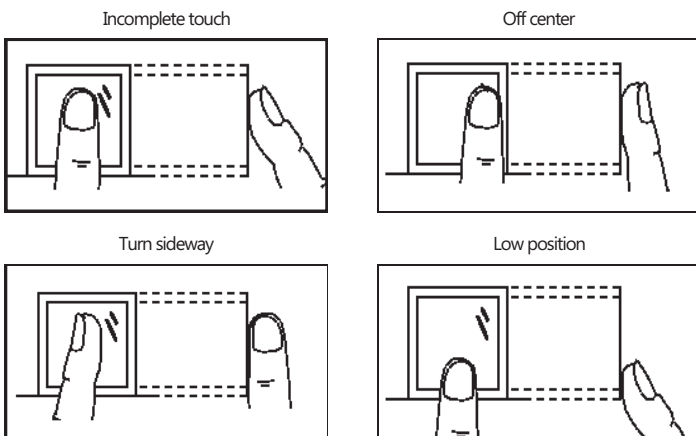
II. Inputting Fingerprint

Suggested finger: index finger, middle finger or ring finger instead of thumb or little finger

1) Correct method
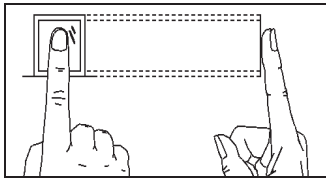
Use the finger to evenly press the center of fingerprint are

2) Wrong methods

Incomplete touch

Off center

Turn sideway

Low position

☺ Please input fingerprint correctly for verification, and improper operation might result in poor performance of this device

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III. Ports & Wiring Diagram

Connect this device and breaker via NO, COM and NC output to separate from internal circuit of this device.
Once relay gets closed, electric lock is released.
Contact output current:3A;
Connection diagram:
please refer to right diagram.

Relay Output Connection Diagram

NC
NO
A
Relay
COM
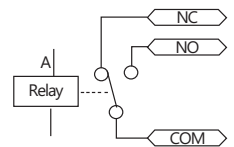
High level output in case of alarm Alarm Port Connection Diagram

ALARM_
I/O   R20   T 7
R45

Wiring Diagram

Power
GND
+12V

Optional   Alarm   +

Note: negative pole of normally-closed to NC port; normally-open end to NO port

Lock   Red   +   Black

Door open button

Optional   Access controller

Red — GND
Gray — +12V
Blue — ALARM
Orange — NO
Purple — COM
Yellow — NC
Black — OPEN
Pink — GND
Light green — BELL+
White — BELL−
Green — D1
— D0
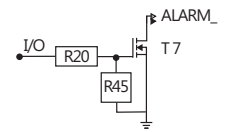
Access Control System
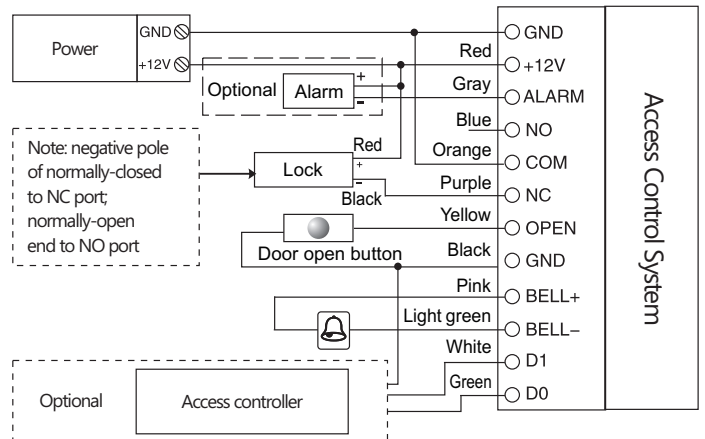
IV. Administrator Operation

1. Press [*] and there is a beep while the red light turns on ⇒ 2. Enter administrator password (initial password: 123456)

⇓

4. Exit (by pressing [#]) ⇐ 3. Verification request succeeds (while the blue light turns on)
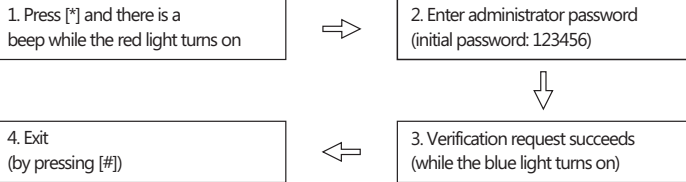
Remarks:
After successful verification, user is allowed to register Administrator account. Then the initial password will be invalid.

4.1 Registering Administrator

1. Enter administrator password for verification. Once verification request succeeds the blue light turns on ⇒ 2. Press (*1) and the orange light turns on

⇓

5. Exit (by pressing [#]) ⇐ 4. Once registration request succeeds, there is a long beep and the blue light blinks once. ⇐ 3. Register administrator via fingerprint or card (input fingerprint twice)

Remarks:
1. It is allowed to register with 5 administrator only via fingerprint or card.
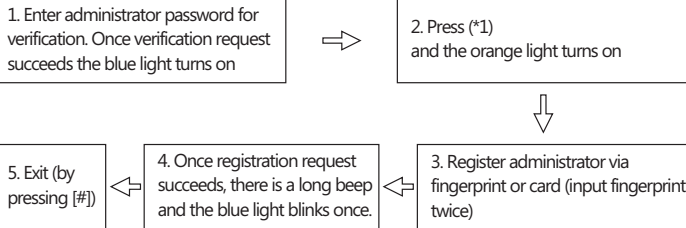2. In case administrator quantity reaches the maximum value, the newly-enrolled admins will be cleared according to the serial number.
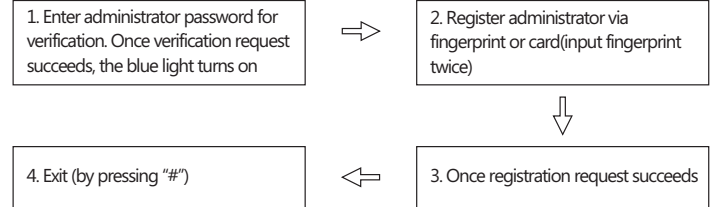
4.2 If the administrator password is lost.

Power off, press #, hold it, and power on, after 5 seconds, there will be one long beep, means delete the master successfully, then release the button

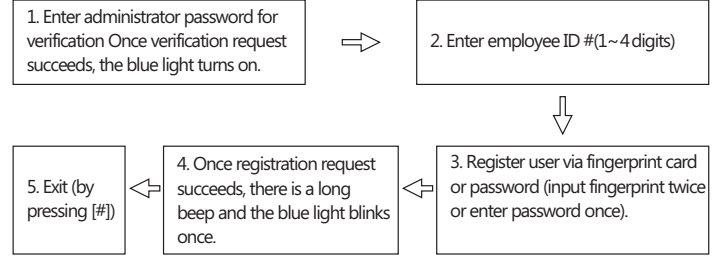**Attention:** Do not release the # button until one long beep

V. To enroll a new user

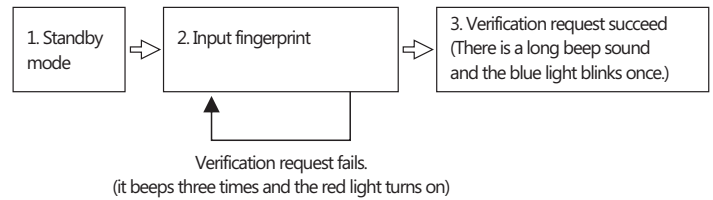### 5.1 A new users ID will be generated automatically.

1. Enter administrator password for verification. Once verification request succeeds, the blue light turns on ⇒ 2. Register administrator via fingerprint or card(input fingerprint twice)

⇓

4. Exit (by pressing "#") ⇐ 3. Once registration request succeeds

5.2 Register users by inputting the Employee ID directly.

1. Enter administrator password for verification Once verification request succeeds, the blue light turns on. ⇒ 2. Enter employee ID #(1~4 digits)

⇓

5. Exit (by pressing [#]) ⇐ 4. Once registration request succeeds, there is a long beep and the blue light blinks once. ⇐ 3. Register user via fingerprint card or password (input fingerprint twice or enter password once).

VI: Verification

6.1 User Verification via Fingerprint

1. Standby mode → 2. Input fingerprint ⇒ 3. Verification request succeed (There is a long beep sound and the blue light blinks once.)

Verification request fails.
(it beeps three times and the red light turns on)

6.2 User Verification via Password

1. Standby mode ⇒ 2. Input the password # ⇒ 3. Verification request succeed (There is a long beep sound and the blue light blinks once.)

Verification request fails.
(it beeps twice and the red light turns on.)
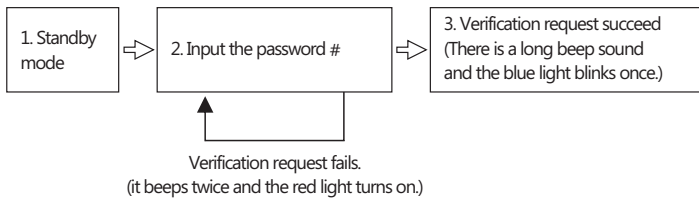
VII: Deleting Users

7.1 Delete a User

1. Enter administrator password for verification. Once verification request succeeds the blue light turns on ⇒ 2. Press [*2] or enter administrator password (red light shining for long time) ⇒ 3. Enter employee ID# input fingerprint or read card

it beeps twice and the red light turns on ⇓

6. Exit (by pressing "#") ⇐ 5. To delete the users successfully-there will be a long sound with blue light turning on. ⇐ 4. To recognize if the user is valid.

7.2 Delete All Users

1. Enter administrator password for verification Once verification request succeeds, the blue light turns on ⇒ 2. Press [*2] There will be a red light shining for long time ⇒ 3. Enter (0000#)

⇓

5. Exit (by pressing "#") ⇐ 4. After successful deletion on all users, there is a long beep and the blue light blinks once.

VIII: Access Control System Management

8.1 System Settings

1. Enter administrator password for verification(Once succeeds verification request the blue light turns on ⇒ 2. Press [*9] and the orange light turns on

⇓

4. Exit (by pressing [#]) ⇐ 3. Set system Press [*90#] for menu initialization; Press [*91#] for system initialization; Press [*92#] to delete administrator.
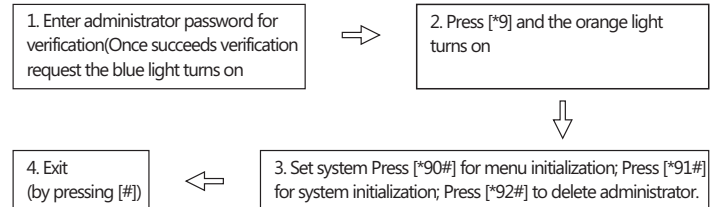
8.2 Setup the time for unlocking.

1. Enter administrator password for verification, Once verification request succeeds, the blue light turns on. ⇒ 2. Press [*3] and the orange light turns on

⇓

5. Exit (Return to verification once successful) ⇐ 4. Setup succeeds There is a long beep and the blue light blinks once ⇐ 3. Set unlocking time (ranging from 0 to 99 seconds) and press # to confirm).

IX: Unpacking

Description	Specifications	Quantity	Remarks
Device		1	
Packaging box		1	
Plastic plugs	Φ4mmX28mm	4	For mounting and fixing
Self-tapping screws	Φ4mmX28mm	4	For mounting and fixing