

SHENZHEN IDEAL MICROELECTRONICS CO.,LTD

Add: 6/F,A2 Bldg.,Xili Nangang Second Industrial Park,
Songbai Road,Nanshan District,Shenzhen,China

Tel: +86-755-2765 7755 2765 7758

Fax: +86-755-2765 2282

Post Code: 518034

Http: //www.adellock.com

Email: service@adellock.com

2010521



ADEL®

ADEL- 4900 Series Operation Manual
(4 in 1)

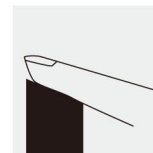
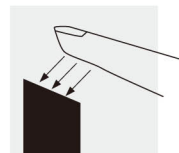
- Thank you for purchasing this product
- Read this manual thoroughly before use
- Keep this manual for the convenience of future reference
- The product picture is for reference only, please take the actual product as the standard.

Note:

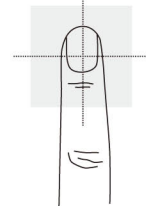
1. Keep your fingers clean when using this product.
2. The dirt on the surface of fingerprint collection window after some time in use may affect the normal use.
Therefore please keep it clean.
3. New lock which is just out of factory can be unlocked with any fingerprint.
4. When opening the door, if the lock beeps an alarm due to insufficient voltage, and the indicator light flashes red, please change the batteries.
5. This product can save 120 fingerprints; we suggest each user to enroll at least two fingerprint templates.
6. Do not clean the lock surface with corrosive substance, or else the protection layer may be damaged and thus influence the gloss of the lock surface. Therefore please clean the lock surface periodically with "furniture polish wax" (e.g. "Pledge").
7. If the latch bolt fails to draw back and forth freely, or the door cannot be closed normally due to the distortion of the door, please adjust the strike plate to a proper position.
8. When the fingerprint and password fail to open the door, use the mechanical key; please keep the mechanical key in a proper place.

● Correct method to place fingerprint

Note: When the red light on fingerprint collection window flashes, press your finger onto the window, and then remove your finger after a beep; press your finger again after 2 seconds, if you hear two long beeps, the collection is successfully completed.

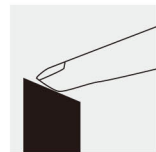


Correct

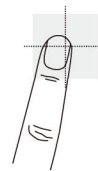


Correct

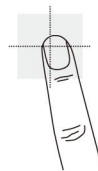
● Error in placing fingerprint



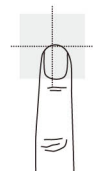
Incorrect



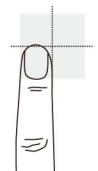
Incorrect



Incorrect

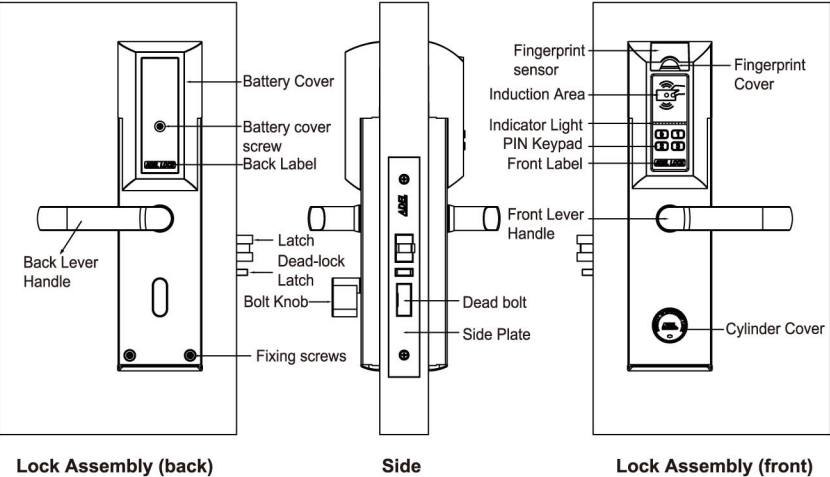


Incorrect



Incorrect

● Name of the parts



Contents

| | |
|---|----|
| I. Assignment of fingerprint and password | 06 |
| II. Factory default setting | 07 |
| III. Enrollment of master fingerprints / member fingerprints/ temporary fingerprints/ Mifare cards / password | 08 |
| IV. Deletion of fingerprint / Mifare card/ PIN | 13 |
| V. Daily use | 17 |
| VI. Use of mechanical key | 19 |
| VII. Change batteries | 19 |
| VIII. Explosive View | 20 |
| IX. Troubleshooting | 22 |

● Product features

- Four ways of unlocking: Fingerprint, password , Mifare card and mechanical key.
- 120 fingerprints users,120 Mifare card users and one PIN user.
- Management level: Master fingerprint enrolls and deletes member fingerprint(s).
- Passage mode can be set for meetings.
- Friendly operation indication.
- Deadlock function:when the door is closed ,the deadlocking latch is pressed against the door frame, which prevents the door from being opened simply by inserting something like credit card.
- Low battery alert.
- The product only activates the mortise latch,if the deadbolt is locked form inside,please use a key to unlock.

● Instructions of the lock buttons:

| Buttons | Function in setup state | Other functions |
|------------|--|---|
| Button "0" | Door lock activation Enter Mifare card setting status | Setup passage mode Representing Mifare card user group |
| Button "1" | Enter the enrollment mode | Representing master fingerprint user group |
| Button "2" | Enter the deletion mode | Representing member fingerprint user group |
| Button "3" | Enter PIN setting status | Representing temporary fingerprint user group |

● Indication of the lock state

1. New lock state: When using fingerprint or ADEL RF card to access the lock, the lock will have three short beeps with Red indicator flash followed by Green indicator. And a motor sound is heard.
2. Operation succeeded: green light on, with two long beeps.
3. Operation failed: red light on, with two short beeps.
4. Door open: electric engine makes a rolling sound for the first time, which indicates the lock is in door open state.
Door closed: electric engine makes a rolling sound for the second time, which indicates the lock is in door closed state.
5. Enter passage mode: the lock makes a beep, and after the successful setup, the green indicator light flashes every 5 seconds

I. Assignment of fingerprint and Password

| Types | Quantity | Privilege |
|-----------------------|----------|--|
| Master fingerprint | 10 | Add/delete fingerprint,Mifare cards and password |
| Member fingerprint | 90 | Open the door |
| Temporary fingerprint | 20 | Open the door |
| Mifare card | 120 | Open the door |
| Password | 1 | Open the door |

II. Factory default setting

● How to reset the lock

1. Take out the battery cover and put only 3 batteries, then press the button "0"
2. Open the cylinder cover by the cylinder cover opener provided
3. Insert the mechanical key to unlock the lock (fully retract the mortise latch, and hold this position)
4. While the latch is fully retracted, install the last battery. Wait about 5 seconds, a long beep, indicates the lock has been reset successfully.

Note: 1. When the master card is lost, please use the above steps to reset the lock.

2. Once the lock is reset, any card can unlock the lock, and the default PIN is 1,2,3,1,2,3,1,2,3,1,2.

III. Enrollment of master fingerprints / member fingerprints/ temporary fingerprints / Mifare cards / password

● Enrollment of master fingerprints

| Operational procedure | Indication of the lock |
|--|--|
| Put any finger on the fingerprint sensor ① | Green light is on, a beep sound is heard red light flashes, with motor rolling sound; |
| ↓ | |
| Press button "1" to enter the setting state | Green light is on with a beep sound heard; |
| ↓ | |
| Press button "1" again for master fingerprint user group | Green light is on with a beep sound heard, and the red light in the fingerprint window is on; |
| ↓ | |
| Put the finger to be enrolled on the fingerprint collection window and collect twice | When the red light in the fingerprint window is on, press with the finger, after a beep, remove the finger and press one more time. Two long beeps and the fingerprint enrollment is successfully completed; |
| ↓ | |
| The master fingerprint has been set | A motor rolling sound is heard and the lock is back to locking state. |

Note:

① Or, press button "0" to start up the fingerprint sensor then put a finger on the sensor.

② Having set the first master fingerprint, the default PIN is cleared.

③ After successfully enrolled a master fingerprint, continue operation while the red light on to enroll other master fingerprints;

● Enrollment of member fingerprints

| Operational procedure | Indication of the lock |
|--|--|
| Put the enrolled master finger on the fingerprint sensor ① | Green light is on, a beep sound heard, red light flashes with motor rolling sound; |
| ↓ | |
| Press button "1" to enter the setting state | Green light is on with a beep sound heard; |
| ↓ | |
| Press button "2" for member fingerprint user group | Green light is on with a beep sound heard, and the red light in the fingerprint window is on; |
| ↓ | |
| Put a finger to be enrolled on the fingerprint collection window and collect twice | When the red light in the fingerprint window is on, press with the finger, after a beep, remove the finger and press one more time. Two long beeps and the fingerprint enrollment is successfully completed; |
| ↓ | |
| The member fingerprint has been set | A motor rolling sound is heard and the lock is back to locking state. |

Note:

①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.

②After successful enrollment of the member fingerprint, continue operation while the red light on to enroll other member fingerprints.

③Do not use the same master fingerprint as the user fingerprint.

● Enrollment of temporary fingerprints

| Operational procedure | Indication of the lock |
|---|---|
| Put the enrolled master finger on the fingerprint sensor ① | Green light is on, a beep sound heard, red light flashes with motor rolling sound; |
| ↓ | |
| Press button "1" to enter the setting state | Green light is on with a beep sound heard; |
| ↓ | |
| Press button "3" for temporary fingerprint user group | Green light is on with a beep sound heard, and the red light in the fingerprint window is on; |
| ↓ | |
| Put a finger to be enrolled on the finger collection window and collect twice | When the red light in the fingerprint collection window is on, press with the finger, after a beep, remove the finger and press one more time. Two long beeps and the fingerprint enrollment is successfully completed; |
| ↓ | |
| The temporary fingerprint has been set | A motor rolling sound is heard and the lock is back to locking state. |

Note:

①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.

②After successful enrollment of the temporary fingerprint, continue operation while the red light on to enroll other temporary fingerprints.

③Do not use the same master fingerprint as the temporary fingerprint.

● Enrollment of Mifare cards

| Operational procedure | Indication of the lock |
|--|---|
| Put the enrolled master finger on the fingerprint sensor ① | Green light is on, a beep sound heard, red light finishes with motor rolling sound; |
| ↓ | |
| Press button "1" to enter the setting state | Green light is on with a beep sound heard; |
| ↓ | |
| Press button "0" | Green light is on with a beep sound heard, and the red light in the fingerprint window is on; |
| ↓ | |
| Put the cards to be enrolled in the lock induction area | A long beep sounds, and the green light is on longer with the red light in the fingerprint collection window flashes. |
| ↓ | |
| Mifare card has been set | |

Note:

- ①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.
 ②After successful enrollment of a mifare card, continue operation while the red light on to enroll other mifare cards.

● Enrollment of PIN

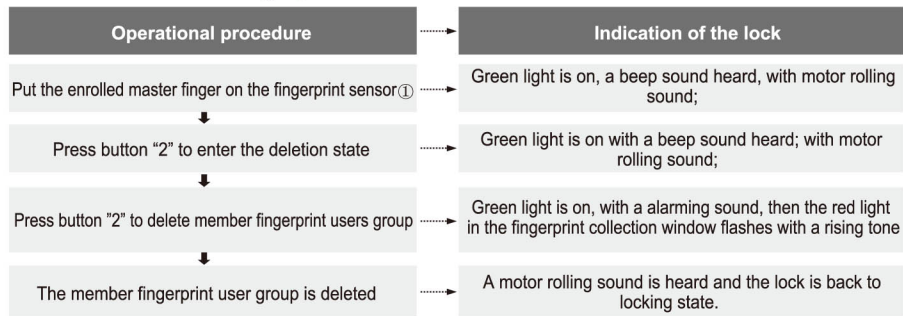
| Operational procedure | Indication of the lock |
|---|---|
| Put the enrolled master finger on the fingerprint sensor ① | Green light is on, a beep sound heard, with motor rolling sound; |
| ↓ | |
| Press button "3" to enter the PIN setting state | Green light is on with a beep sound heard; |
| ↓ | |
| Enter the 11 digits PIN as you like (The PIN must not start with "0") | When PIN is input, green lights on, with two long beeps |
| ↓ | |
| PIN has been set | A motor rolling sound is heard and the lock is back to locking state. |

Notes:

- ①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.
 ②PIN must be in 11-digits and must not start with "0".

IV. Deletion of fingerprint / Mifare card/ PIN

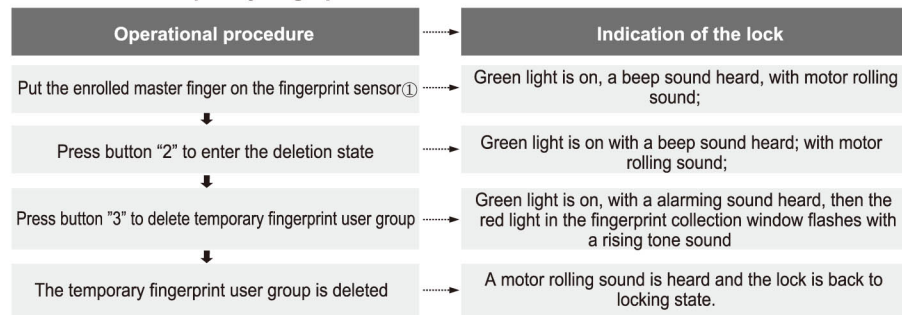
● Deletion of member fingerprint users



Note:

①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.

● Deletion of Temporary fingerprint users



Note:

①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.

● Deletion of Mifare cards

| Operational procedure | Indication of the lock |
|--|--|
| Put the enrolled master finger on the fingerprint sensor ① | Green light is on, a beep sound heard, with motor rolling sound; |
| ↓ | |
| Press button "2" to enter the deletion state | Green light is on with a beep sound heard; with motor rolling sound; |
| ↓ | |
| Press button "0" to delete Mifare card group | Green light is off with a rising tone and a short beep sound heard; |
| ↓ | |
| All Mifare card users are deleted | A motor rolling sound and the lock is back to locking state. |

Note:

①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.

● Deletion of master fingerprints

| Operational procedure | Indication of the lock |
|--|---|
| Put the enrolled master finger on the fingerprint sensor ① | Green light is on, a beep sound heard, with motor rolling sound; |
| ↓ | |
| Press button "2" to enter the deletion state | Green light is on with a beep sound heard; |
| ↓ | |
| Press button "1" to confirm the master fingerprints group to be deleted | Green light is on, with two alarming sound, then the red light in the fingerprint collection window flashes with a rising tone; |
| ↓ | |
| The deletion of master fingerprint user group has successfully completed | A long beep sounds, and the green light is on longer with the red light in the fingerprint collection window flashes; |

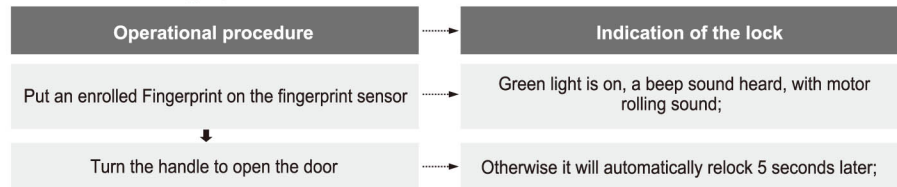
Note:

①Or, press button "0" to start up the fingerprint sensor then put the enrolled master finger on the sensor.

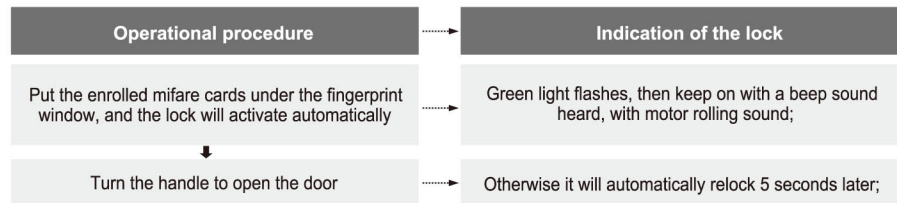
②Once the master fingerprint group users is deleted, the lock will return to factory default setting, all the fingerprints will be deleted and the PIN reset to factory setting

V. Daily use

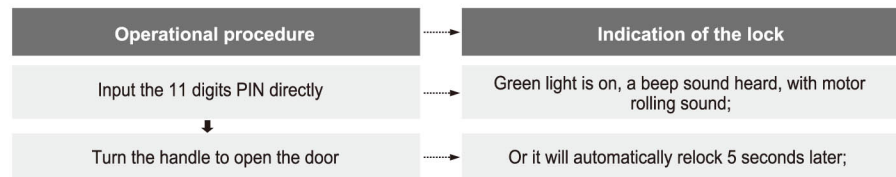
● Unlock with fingerprints



● Unlock with mifare cards



● Unlock with PIN



● Setup passage mode

Press Button "0" within 5 seconds after the door is open, and the passage mode is set.

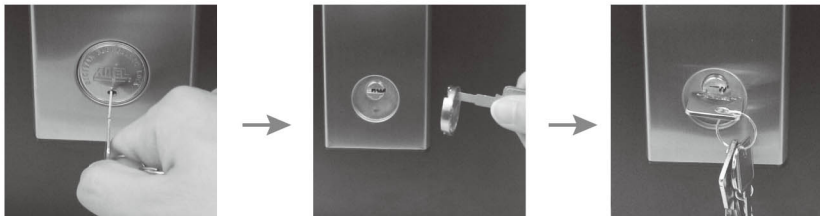
● Cancel passage mode

When the lock is in passage mode, place an enrolled fingerprint or input the valid password to cancel the passage mode.

● Open deadlock mode

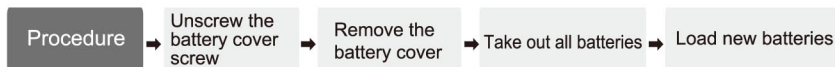
Only master fingerprint can open the door.

VI. Use of mechanical key



1. Use the cylinder cover opener provided, open the cylinder cover.
2. Insert the key and open the door

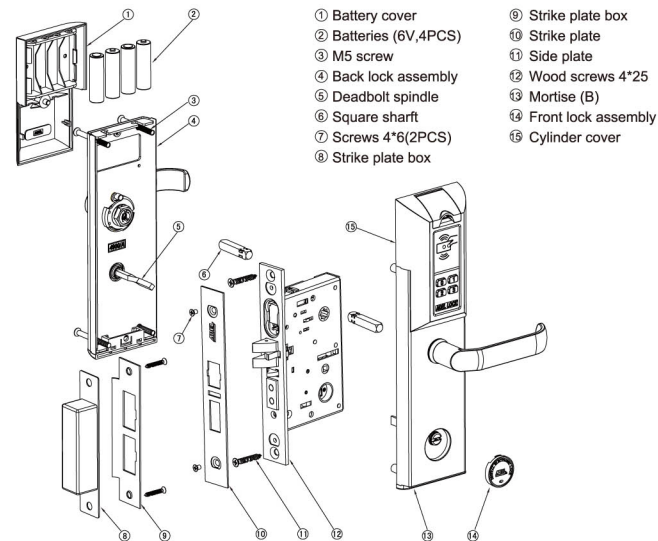
VII. Change batteries



Notes:

1. When loading the batteries, operate correctly with attention to the sign of positive and negative poles in the battery box.
2. When changing batteries, never mix the new battery with the used.
3. Please preserve the environment by handing over the used batteries to designated place for reclaim.

VIII. Explosive View



IX. Troubleshooting

| Phenomenon | Cause | Solution |
|--|---|---|
| Press the finger on the fingerprint collection window to open the door, red light is on together with two short beeps, and fails to open the door. | 1. This fingerprint might be illegal 2. This fingerprint has already been cleared | Apply a valid fingerprint |
| Open the door with a valid fingerprint, red light is on with two short beeps, and fails to open the door. | 1. There is a large difference with the position of the valid fingerprint 2. The fingerprint is damaged | Press the finger on the collection window again, trying to minimize the difference of the position with that at the time of enrollment |
| Red light is constantly on | 1. Low battery voltage 2. PCB failure | 1. Change the batteries 2. Check Cable connection |
| Alarm sounds when open the door | Low battery voltage | Change the batteries |
| No response after pressing the buttons | 1. No battery 2. Key locked | 1. Change the batteries 2. Try again 3 mins later |
| Often fail to verify the fingerprints | 1. The finger is too dirty 2. The finger is too dry 3. The finger is too wet 4. The collection window is too dirty 5. The finger press on the collection window incorrectly | 1. Clean the finger 2. Moisten the finger (e.g. touch the forehead with the finger) 3. Wipe the finger 4. Clean the collection window 5. Press the finger with the method on Page 2 |
| Fail to enter the enrollment or deletion mode | 1. The finger for unlock is not the master finger 2. The operational procedure is incorrect | 1. Confirm that you unlock with the master finger 2. Review the instructions or contact the after sales service |