# KAS®
## KEYLESS ACCESS SECURITY

# User Manual

## KAS-600 Z-Wave Electronic Lock

Z-Wave Certification No：ZC08-13100011

➢ Please read this manual carefully before installing
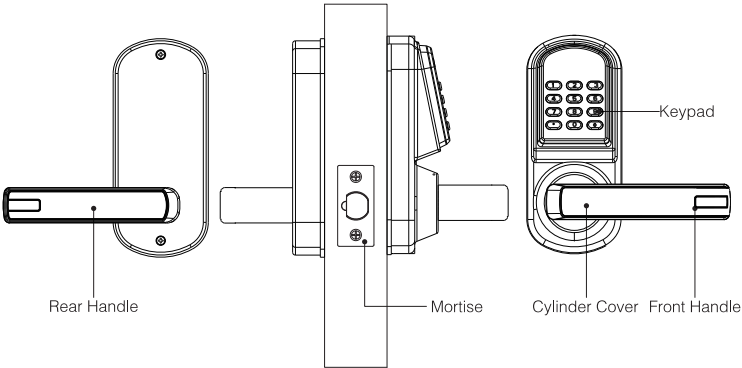➢ Please safekeeping of this handbook to prepare for inspection

# Content

# I. Product Introduction

1.Product Introduction

| | Size(Outside) (mm:W*H*D) | 69.3 × 156.7 × 85.8 |
|---|---|---|
| | Material | Zinc alloy |
| | Weight | 2.3Kg |

Keypad

Rear Handle          Mortise      Cylinder Cover  Front Handle

**2、Product Performance Parameters**

| Description | Parametric Description |
|---|---|
| Open Mode | Code、mechanical key、wireless |
| Identification Time | <1s |
| False Reject Rate | ≤0.01% |
| False Identification Rate | ≤0.0001% |
| User Capacity | 20 |
| Working Voltage | 5 alkaline batteries for 4pcs AA(DC4.8 ～ 6.5V) |
| Deficient Voltage Alarm | 5.0V (+/−0.2V) |
| Holing Current | 30 ～ 450uA |
| Working Temperature | −20℃~ 55℃ |
| Storage Temperature | −30℃~ 70℃ |
| Mean Free Failure Time | ≥25,000h |

# 3、Packing List

| | | |
|---|---|---|
| 1.Front panel | 2.Rear panel | 3.Front and rear panel waterproof rubber gaskets(2pcs) |
| 4.Single latch mortise | 5.Dust Boot | 6.Square Shaft |
| 7.Spanner | 8.Strike Plate | 9.Self—tapping Screw |
| 10.Position Pin | 11.Fixed Screw | 12.Mechanical Key |
| 13.User Manual | 14.Single Latch Mortise Drilling Figure | |

# II. Installation Guide

## 1、Installation Conditions

### 1.1. Requirement of Door Thickness

■ Lock edging ≥110mm (doors with different thickness)

■ 35mm≤door thickness ≤60mm

### 1.2. Confirmation for Door— opening Direction

Left Inwards

room

Wall

Door

room

Door

Right Inwards

Left Outwards

room

Wall

Door

room

Door

Right Outwards
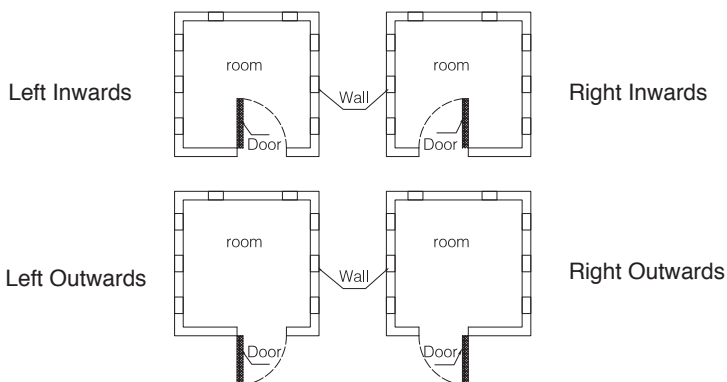
## 2、Installation Tool
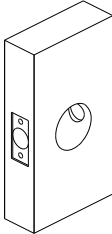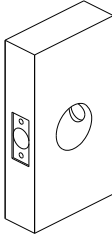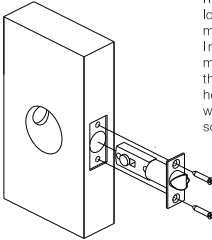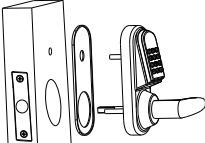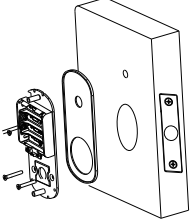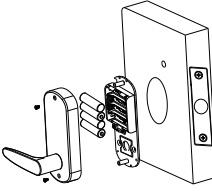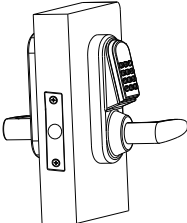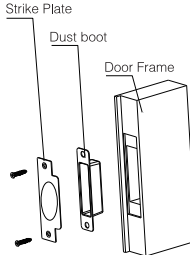
| | | |
|---|---|---|
| 1.Pencil | 2.Tape | 3.Angle Square |
| 4.Manual Electric Drill | 5.Drill | 6.Hammer |
| 7. Art Knife | 8.Screwdriver | 9.Chisel |

# 3、Drilling figure

## 3.1、Single latch mortise drilling figure



Handle Centerline
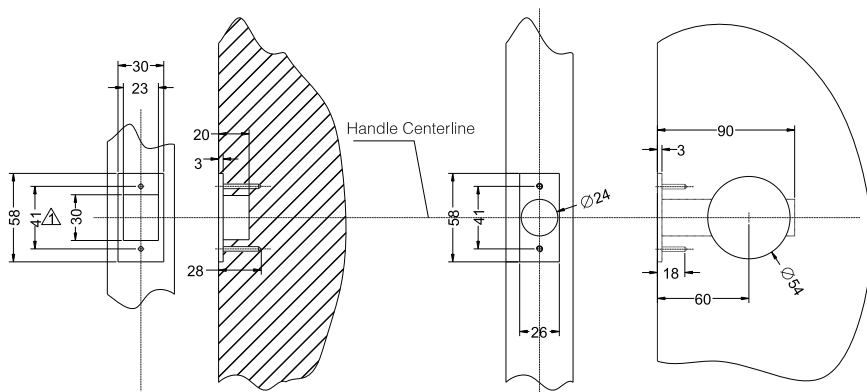
## 4.2、Installation Steps of Lock With Single Latch Mortise

**I. Draw lines**
1. Draw a horizontal center line at place 1m above the ground both inside and outside the door.
2. Fold the template, align the handle center line of drilling template and horizontal line on the door, and then draw the line on the front and side door according to the requirements of drilling template.

**II. Drill hole**
According to the drilling template, drill hole for lock panel and mortise.

**III. Install lock mortise**
Install the mortise into the mortise hole and fix with 2 screws.

**V. Front panel installation**
1. Insert the square shaft into the center hub . Insert the position pin into the hole on the center hub to secure the square shaft. Bend the end of position pin around the center hub to secure the pin in place.
2. Screw in and tighten the two fastener extensions into the front lock fastener posts located on both side of the center hub. Attach and tighten the upper fastener extension if needed.  Note: The upper fastener extension is optional
3. Place the front lock housing onto the door, with the rubber gasket between the door and lock housing. Feed the power plug through the hole;

**V. Rear panel installation**
1. Attach the battery plate onto the door, with the rubber gasket between the door and battery plate. Make sure the power plug go through the hole on the plate. Secure the battery plate to front lock fastener post with 2 screws. Fasten upper fastener post

**VI. Battery installation**
Install batteries, and plug in the power cable. Secure the back lock housing onto the battery plate. Fasten with 2 screws.

**VII. Debug after the completion of installation**
1. Turn the handle, and check the flexibility of the handle of both the front and back panel.
2. Remove the cylinder cover, insert the mechanical key and turn the key clockwise to the 90°, then turn front handle to open the door. Check whether the key can normally open the door.
3. Set the door lock according to the door lock operation guide, and then test the door lock.

Strike Plate
Dust boot
Door Frame

**VIII. Door strike installation**
1. Make the door closed to the door frame, then draw the location of latch and hole of door frame on the door frame.
2. Put the strike box and strike plate into the hole based on the sequences shown on the left picture, then fix the strike plate with 2 screws.
3. Check whether the latch can completely reach out after shut the door.

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# III Operation Guide

## 1、Key Instruction

- Press "1—9" buttons for codes
- Press "*" for return
- Press "#" for confirmation
- There is a reset button on back panel

## 2、Quantity of code
- Programming code: 1 group (default programming code: 12345678,
- User password:20 groups(6 digits) with user no.01—20

## 3、Unlock method
- Password, Mechanical key, Wireless

## 4、Instruction for Door Lock Setting
### 4.1、Modify the Programming Code

| User operation steps | Door lock status indication |
|---|---|
| Enter the programming code | Sound "di" once |
| Enter "4" | Sound "didi" twice |
| Enter the new programming code(8 digits) | Sound "didi" twice |
| Enter the new programming code(8 digits) again | Operation successful, sounds music |
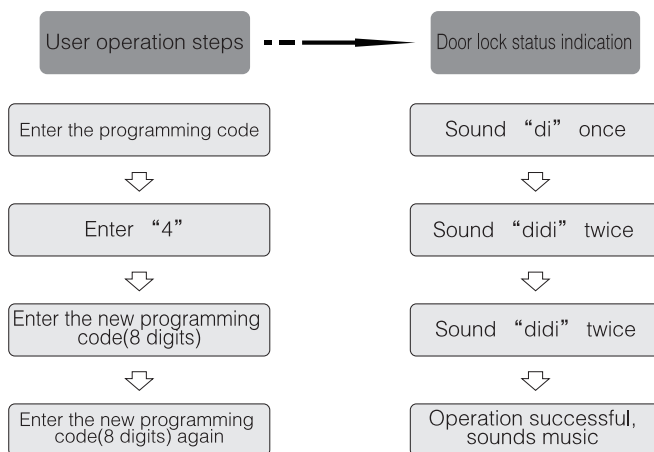
❖ Instruction:
  ➢ New programming code should be different with the default programming code.
  ➢ When modify the programming code, the first input code should be same with the second input code.

## 4.2、Add user password

| User operation steps | ⇢ ──────▶ | Door lock status indication |
|---|---|---|

| Enter the programming code | Sound "di" once |
|---|---|
| ⇩ | ⇩ |
| Enter "1" | Sound "didi" twice |
| ⇩ | ⇩ |
| Enter user password (6 digits) | Sound "didi" twice |
| ⇩ | ⇩ |
| Enter user password (6 digits) again | Operation successful, sounds music |
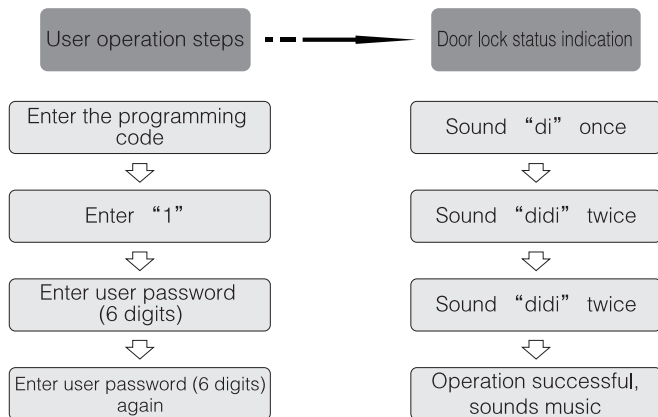
❖ Notes:
  ➤ If the user password has been added, it prompts user password adding fail and quit automatically.

## 4.3、Modify the user password

| User operation steps | ⇢ ──────▶ | Door lock status indication |
|---|---|---|

| Enter the programming code | Sound "di" once |
|---|---|
| ⇩ | ⇩ |
| Enter "2" | Sound "didi" twice |
| ⇩ | ⇩ |
| Enter the user no | Sound "di" once |
| ⇩ | ⇩ |
| Enter the new 6 digits user password | Sound "didi" twice |
| ⇩ | ⇩ |
| Enter the new 6 digits user password again | Operation successful, sounds music |

![KAS - KEYLESS ACCESS SECURITY]
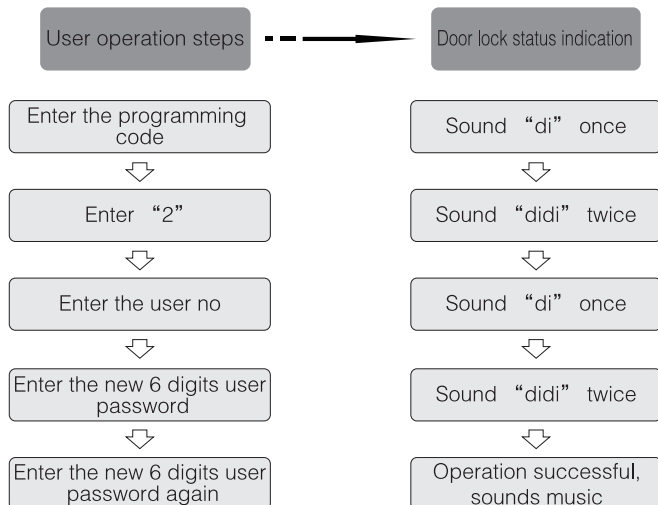
## 4.4、Delete single user password

| User operation steps | ⇢ | Door lock status indication |
|---|---|---|

| Enter the programming code | Sound "di" once |
|---|---|

⇩

| Enter "2" | Sound "didi" twice |
|---|---|

⇩

| Enter the user no | Sound "di" once |
|---|---|

⇩

| Enter "#" | Operation successful, sounds music |
|---|---|
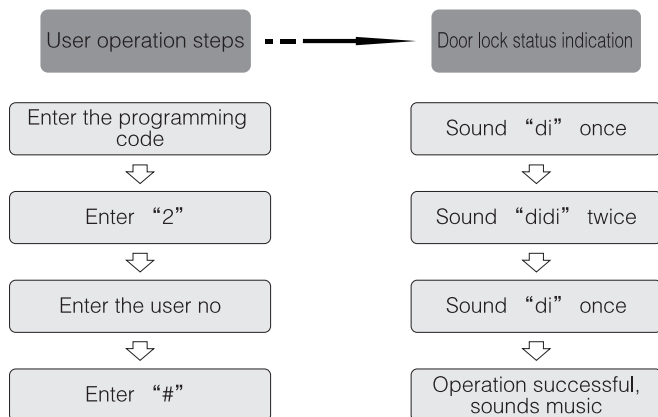
## 4.5、Delete all user password

| User operation steps | ⇢ | Door lock status indication |
|---|---|---|

| Enter the programming code | Sound "di" once |
|---|---|

⇩

| Enter "3" | Sound "didi" twice |
|---|---|

⇩

| Enter the programming code | Operation successful, sounds music |
|---|---|
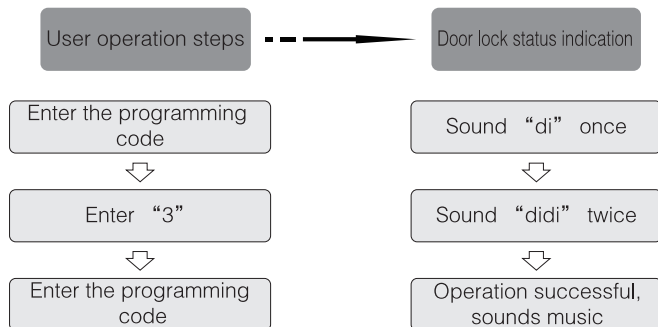
### 4.6、Start/Disable Key Warning Tone

| User operation steps | ⇢ | Door lock status indication |

⇩                                             ⇩

| Enter the programming code | | Sound "di" once |

⇩                                             ⇩

| Enter "6" | | Sound "dididi" three times. Operation successful, sounds music |
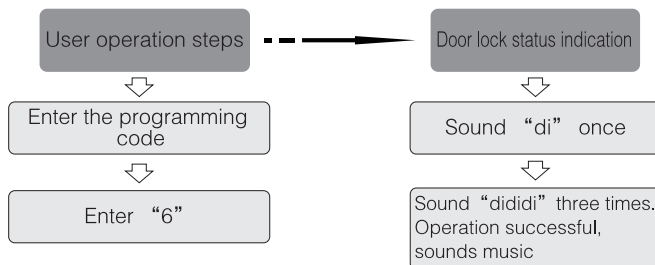
### 4.7、Z-WAVE Gateway enroll/ unenroll

| User operation steps | ⇢ | Door lock status indication |

⇩                                             ⇩

| Put the Z-wave gateway into enroll/unenroll mode and enter the programming code | | Sound "di" once |

⇩                                             ⇩

| Enter "0" | | Sound "di" for a long time. Operation successful, sounds music |
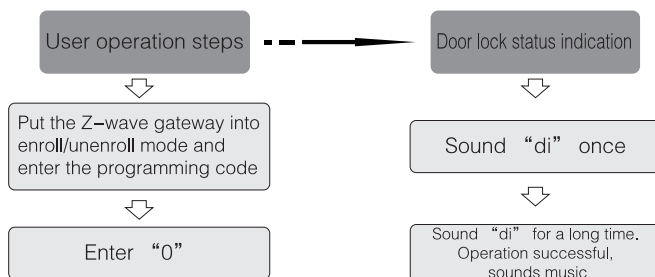
❖ Notes:
 ➢ if the door lock has been registered on other Z-Wave gateway, please unenroll the lock firstly, then re-enroll

## 5、Door opening and closing instruction.

### 5.1、User Password Unlocking

| User operation steps | ⇢ | Door lock status indication |

⇩                                             ⇩

| Enter user password | | Sound music and motor rotate to unlock , press "*" to close or wait for 5 seconds to close automatically |

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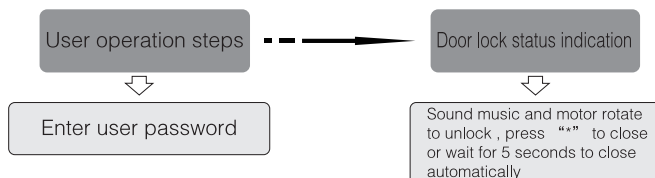
## 5.2、Programming Code Emergency Unlocking

| User operation steps | ┅➤ | Door lock status indication |
|---|---|---|

| Enter programming code | | Sound "di" once |
|---|---|---|

| Enter "9" | | Sound music and motor rotate to unlock , press "*" to close or wait for 5 seconds to close automatically |
|---|---|---|

## 5.3、Wireless unlocking

| User operation steps | ┅➤ | Door lock status indication |
|---|---|---|

| Unlock with phone/ computer | | Sound music and motor rotate to unlock , press "*" to close or wait for 5 seconds to close automatically |
|---|---|---|

## 6、Reset

| User operation steps | ──➤ | Door lock status indication |
|---|---|---|

| a. Remove 1pc battery. b. Press and hold the reset button c. While holding the reset button, re–install the battery. d. Until the lock beeps, release the reset button. | | Sound "di" once, then sound "di" for a long time |
|---|---|---|

| press "1" | ⇨ | Sound "di" once. Operation successful |
|---|---|---|

❖ Notes:
  ➢ After reset, all existing user codes and current programming code will be erased. Default Programming Code
     will be restored , but the enrolling of lock with gateway will not be erased.

## 7、Malfunction prevention functions

When 10 failed authentication attempts with unregistered code, the lock will stop operating for 5 minutes.

## 8、Low voltage alarm function and battery replacing Method

### 8.1、Low voltage alarm function

When battery power is lower than 5.0v (+/−0.2), when unlock the door, there will be alarm. After open the door, light red & flash 3 times and beep 3 times.

### 8.2、Battery Replacing Method



Remove the screws of back panel, and remove the back panel.

Change the new batteries and install the back panel

### 8.3、Mechanical Key



Press the button on the front handle. The cylinder cover will be flicked

Insert mechanical key and turn the key clockwise to 90°, then turn front handle to open the door
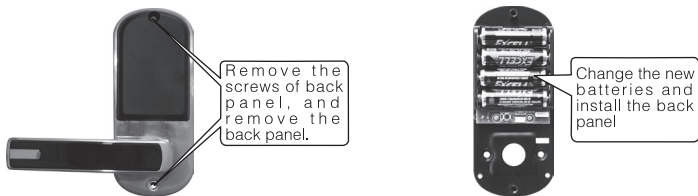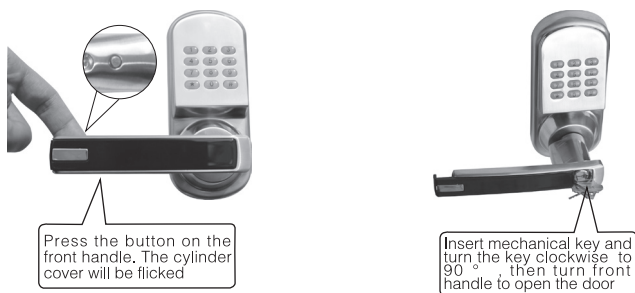
## 9、Z-Wave Technical Specification

Generic Device Class = GENERIC_TYPE_ENTRY_CONTROL;

Specific Device Class = SPECIFIC_TYPE_SECURE_KEYPAD_DOOR_LOCK;

FLIRS setting = APPLICATION_FREQ_LISTENING_MODE_1000ms;

The device is the process of safely enabling Z-Wave, realizing the Z-Wave security layer according to the Z-Wave agreement. The function and supporting instructions are different when they are listed into safe or unsafe nodes.
According to the Z-Wave anti-theft instruction V2 grade, the device can supports the anti-theft protection function. When the anti-theft protection enables the Z-Wave agreement, the order of supporting is only anti-theft CC.

| Orders supported by the device | Including no safe nodes, NF response | Including no safe nodes, NF response, anti-theft protection ,NF response | Including safe node, NF response. | Including safe node, safe support response | Including safe node, anti-theft protection ,NF response | Including safe node, anti-theft protection, safe response support |
|---|---|---|---|---|---|---|
| Anti-theft | √ | √ | | √ | | √ |
| Especially for Manufacturer | √ | √ | √ | √ | √ | |
| versions | √ | √ | √ | √ | √ | |
| safety | √ | | √ | | √ | |
| Application _ status | √ | | √ | √ | | |
| Alarm | √ | | | √ | | |
| Association | √ | | | √ | | |
| Basic | √ | | √ | √ | | |
| Battery | √ | | | √ | | |
| Configuration | √ | | | √ | | |
| Door_ lock | | | | √ | | |
| Door_ lock_ login | √ | | | √ | | |
| Node_ name | √ | | | √ | | |
| Schedule_ entering _lock | √ | | | √ | | |
| Date_ parameter | √ | | | √ | | |
| User_ codes | | | | √ | | |

COMMAND_CLASS_APPLICATION_STATUS
The device responds request order which refused the application program, receiving the invalid orders when the original nodes are identical.

COMMAND_CLASS_ASSOCIATION
This device supports 2 kinds of contract groups, and in each group supporting 2 node maximum values. ID I is used for sending anti-social operation and alarm report. Group ID II is used for sending the order ON and Off of basic device, and the vacation mood means starting and forbidden.

COMMAND_CLASS_CONFIGURATION
The device reserves memory storage space of 225 bytes for upper layer application. The upper layer application program may visit the memory through the categories of configuration order. The default settings all always 0(0×00), the parameter is always 1(0×01), the probable value from 0×00 to 0×FF of parameter is decided by upper application.

COMMAND_CLASS_DOOR_LOCK
 There are 2 various relock modes in the device: automatic relocking mode (fixed cycle operation) and constant unlocking mode (constant operation). The device may configurate orders through manual or door lock. The timeout restore will start within 8s. The device set the door lock operation unchangeable and unsafe as unsafe and timeout and the device will automatically relock mode functions.


COMMAND_CLASS_NODE_NAMING
The device report nodes names will be announced after the ASC II brand name and products version are reset to factory default value.

COMMAND_CLASS_SCHEDULE_ENTRY_LOCK
The device doesn't support the function of daylight saving and ignores DST offset of offset setting order of appendix table input time. Device supports the continuous time of appendix table entering lock.
Reset order from 0 to 168(=7×24) maximum lasting time.

COMMAND_CLASS_USER_CODE
The device user code restores 6 digits. If user code is not 6 digits, it will ignore user code setting order.

# IV、 After sales service

## 1、Routine maintenance

- Please keep your fingers clean when use the product.
- Avoiding contact with corrosive substances or liquids so as to affect the appearance of the body.
- Strictly prohibit hard objects to knock fingerprint reading head surface to prevent damage and affect the normal use.
- If the fingerprint capture window surface is dirty that may affect the normal use of locks. Please keep window clean everyday.
- Safekeeping of the keys, when the fingerprint or password can not open door, please use the keys.
- Please change battery when Low-voltage alarming, so as not to affect the normal use of locks.
- Lock surface can be used furniture polish wax to keep glossy.
- Do not use water or alcohol to clean fingerprint capture window. Only permit to use soft cloth to sweat stains of the collector window.

## 2、After-sale services

- Product warranty for free in 1 year. The product turns to quality problems, it shall acquire free warranty after installed and inspected by the two sides. But the man-made factors (such as the improper use, man-made damage, etc.), force majeure cause accidental damage, it does not belong to the scope, and maintenance required charges for the cost of fees. User-demolition-off or without the company agree to non-designated repair sites for door locks will not gain warranty.
- Life maintenance. Collect cost price after 1 year.
- If it fails in use, please contact with customer service center of Shenzhen Locstar Technology Co,. Ltd. If you dismantle by yourself, the company does not bear any responsibility.

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# Appendix one

## Warranty card

counterfoil for customer

| | |
|---|---|
| Product Type | : _____ |
| Product Model | : _____ |
| Date of Production | : _____ |
| Purchasing Date | : _____ |
| Purchasing Address | : _____ |
| Installation Date | : _____ |
| Purchasing Uint | : _____ |
| Name | : _____ |
| Address | : _____ |
| Zip code | : _____ |
| Phone number | : _____ |

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## Appendix two

NO.(filled in by Manufacturer)：_____

# **Warranty card**  <span style="border:1px solid">counterfoil for the factory</span>

Product Type          : _____

Product Model         : _____

Date of Production    : _____

Purchasing Date       : _____

Purchasing Address : _____

Installation Date     : _____

Purchasing Uint       : _____

Name                  : _____

Address               : _____

Zip code              : _____

Phone number          : _____