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› GEKRONE Smart Fingerprint Lock A290 User Manual

GEKRONE A290

GEKRONE Smart Fingerprint Lock A290 User Manual

Model: A290

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GEKRONE Smart Fingerprint Lock A290. This advanced keyless entry system offers multiple unlocking methods including fingerprint, keypad, IC card, mobile application control, and traditional mechanical keys, enhancing convenience and security for your home or office.



Figure 1.1: GEKRONE Smart Finger Lock A290

2. SAFETY INFORMATION

- **Battery Type:** Only use alkaline dry batteries (LR6/LR06). Carbon batteries can cause unstable internal voltage and lead to malfunctions. Batteries are not included.
- **Environmental Conditions:** Avoid installing the smart lock in locations continuously exposed to strong sunlight or high moisture. High temperatures or rainwater erosion can damage internal components.
- **Mechanical Keys:** Keep the mechanical keys in a secure, accessible location outside the property, but not inside the property where the lock is installed. These keys are for emergency use.
- **Installation:** Ensure all components are installed correctly and securely according to the instructions to prevent operational issues or security vulnerabilities.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Front Panel Assembly (with keypad and fingerprint sensor)

- Back Panel Assembly (with battery compartment)
- Mortise/Latch
- Strike Plate
- Installation Screws and Hardware
- 2 x IC Cards
- 2 x Mechanical Keys
- User Manual (this document)

4. PRODUCT OVERVIEW

The GEKRONE Smart Fingerprint Lock A290 is designed for versatile and secure access. It integrates multiple unlocking technologies into a single, sleek unit.

4.1. Unlocking Methods

- **Fingerprint:** Fast biometric recognition within 0.5 seconds, supporting up to 50 unique fingerprints.
- **Passcode:** Utilize the touchscreen keypad for secure entry. Supports regular, temporary, and sub-account passwords, with anti-peeping functionality.
- **IC Card:** Convenient tap-to-unlock using provided IC cards.
- **Mobile App (TUYA):** Full control and management via the TUYA app, compatible with iOS and Android devices. Features include remote unlocking, access log review, battery level check, and temporary password generation.
- **Mechanical Key:** Traditional key access for emergency situations.

Having five unlocking methods to add wisdom to your life



-  **Fingerprint Unlock**
-  **Password Unlocking**
-  **Smart Keycard**
-  **Multi Functional APP Control**
-  **Emergency Machine Key**



4* 6V AA Alkaline Batteries To Power

Not including batteries. The smart lock battery can be used normally for 10 to 12 months.

Attention: Please do not use carbon batteries, as they can cause unstable voltage in the smart lock and easily lead to malfunctions

Figure 4.1: Five Unlocking Methods

4.2. Key Components

PRODUCT PARAMETERS



System Introduction

Material: Aluminum Alloy, ABS, Arcylic	Unlock Way: Fingerprint, IC Card, Password, APP, Mechanical Key
Available Color: Black / Satin Nickel	Working Temperature: -20~50°C
Door Thickness: 35MM-54MM	Working Humidity: 10%~95%
Communication: Wi-Fi	Available Mortise: Support 60MM / 70MM Adjustablelatch Bolt
Battery Life: 8000 Times Normal Unlock (10-12 Months)	Virtual Password: Available
Power Supply: DC6V 4pcs AA Alkaline Batteries	User Capacity: Card+Password+Fingerprint (300 Groups, 9 Groups Administrators)

Figure 4.2: Product Components Diagram

- **Keypad:** Touchscreen for passcode entry.
- **Fingerprint Sensor:** Integrated into the handle for quick biometric access.
- **IC Card Sensing Area:** For tap-to-unlock with IC cards.
- **Mechanical Keyhole:** Located on the front panel for emergency key access.
- **Micro-USB Port:** For emergency power supply (not for charging).
- **Battery Box:** Located on the back panel, holds 4 AA alkaline batteries.
- **Electronic Anti-Lock Button:** For enhanced indoor security.

5. SETUP AND INSTALLATION

The GEKRONE Smart Fingerprint Lock A290 is designed for easy installation, typically completed within 30 minutes using basic tools like an electric drill and a Phillips screwdriver. No wiring is required.

5.1. Pre-Installation Checks

- **Door Thickness:** Compatible with doors 1-3/8 inches to 2-1/8 inches (35mm-54mm) thick.
- **Adjustable Latch:** The lock buckle is adjustable from 2-3/8 inches (60mm) to 2-1/8 inches (70mm).
- **Handle Orientation:** The handles are reversible to support both left and right door opening methods.



Figure 5.1: Door Dimensions and Latch Adjustment

5.2. Installation Steps

Follow these steps for proper installation. Refer to the video for visual guidance.

Your browser does not support the video tag.

Video 5.1: Installation of GEKRONE Smart Lock. This video demonstrates the complete installation process of the smart lock on a wooden door.

1. **Step 1: Install the Lock Core.** Insert the lock core (latch) into the door edge. Secure it with the two pointed screws provided.
2. **Step 2: Adjust Handle Orientation.** Pick up the front of the smart lock. If it is for a right-hand door, align the triangle with 'R'. If it is for a left-hand door, align the triangle with 'L'. This ensures the handle operates correctly.
3. **Step 3: Insert Square Shaft.** Place the 65mm long square shaft into the middle slot of the front panel. Ensure it clicks firmly into place.
4. **Step 4: Pass Power Cord and Mount Front Panel.** Pass the power cord through the wooden door (specifically, through the top of the lock cylinder opening). Then, align and clip the front of the lock to the wooden door.

5. **Step 5: Install Upper Back Plate.** Secure the upper back plate to the door using the two screws provided.
6. **Step 6: Connect Power.** Remove the battery cover from the back panel. Insert the power connector from the front panel into the designated card slot on the back panel.
7. **Step 7: Secure Back Panel.** Screw the short screw into the lower screw hole and the long screw into the upper screw hole to attach the back panel.
8. **Step 8: Insert Batteries and Close Cover.** Insert 4 AA alkaline batteries into the battery compartment. Close the battery cover. The installation is now complete.

5.3. Adjusting Handle Direction

The lock handles can be adjusted to suit left or right-handed door openings.

Your browser does not support the video tag.

Video 5.2: Adjust the left and right handles. This video demonstrates how to change the handle orientation for left or right-opening doors.

6. OPERATING INSTRUCTIONS

Your GEKRONE Smart Fingerprint Lock A290 offers multiple convenient ways to secure and access your property.

6.1. Fingerprint Unlocking

The enlarged fingerprint sensor allows for quick recognition within 0.5 seconds. The lock can store up to 50 different fingerprints.



Figure 6.1: Fingerprint Recognition

6.2. Passcode Unlocking

Enter your programmed passcode on the touchscreen keypad. The lock supports anti-peeping functionality, allowing you to enter random digits before or after your actual code to prevent others from guessing it.



Figure 6.2: Anti-Peeping Passcode Entry

You can also set temporary passwords for guests or service providers, which can be time-limited or one-time use.



Figure 6.3: Temporary Passwords

6.3. IC Card Unlocking

Simply tap an authorized IC card on the designated sensing area of the lock to unlock the door.



Figure 6.4: IC Card Unlocking

6.4. Mobile App Control (TUYA)

The TUYA app provides comprehensive control over your smart lock. It supports both iOS and Android devices and allows for:

- Remote unlocking (via Wi-Fi).
- Managing access logs.
- Setting regular and temporary passwords.
- Authorizing sub-account fingerprints.
- Checking battery level.
- Receiving doorbell reminders.



Figure 6.5: TUYA App Control

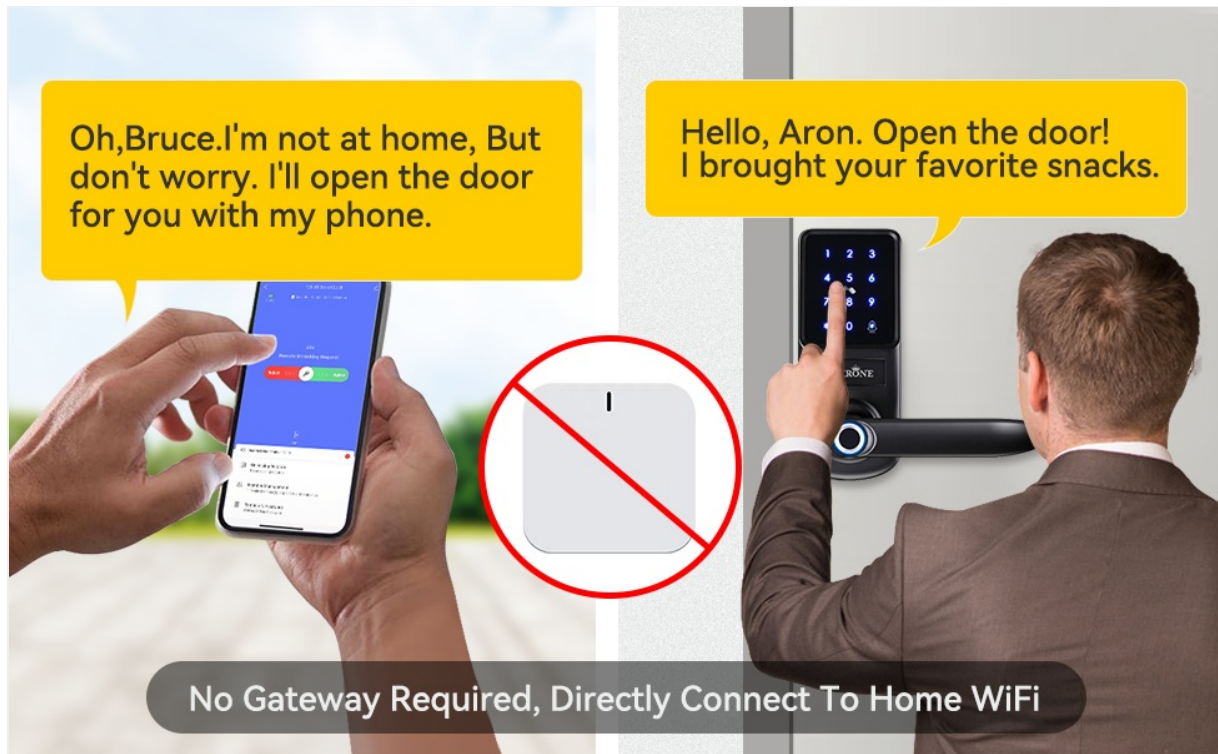


Figure 6.6: Direct Wi-Fi Connectivity for Remote Unlocking

6.5. Mechanical Key Unlocking

In case of battery depletion or electronic malfunction, the mechanical keys provide a reliable backup for entry.



In emergency situations, USB power banks can be used to power the smart lock and unlock it



Attention: The port is only used for emergency power supply and cannot charge the battery



Provide two mechanical keys to unlock using traditional methods

USB Emergency Power Port And Mechanical Key Unlocking



Figure 6.7: Mechanical Key Access

6.6. Automatic Locking and Normally Open Mode

The lock features an automatic locking function, securing the door within 5-10 seconds after closing. It also supports a normally open mode, allowing the door to remain unlocked for extended periods when desired.



Figure 6.8: Auto-Lock Feature

6.7. Privacy Button

An internal privacy button allows you to prevent external unlocking methods from working, providing an extra layer of security when inside.



Figure 6.9: Privacy Button

6.8. Doorbell Function

The lock includes a doorbell function, alerting occupants when a visitor is at the door.

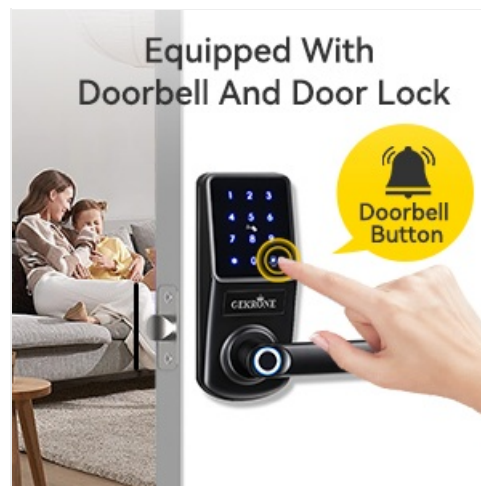


Figure 6.10: Doorbell Function

7. MAINTENANCE

7.1. Battery Replacement

The lock requires 4 AA alkaline batteries (LR6/LR06) and can operate for approximately 10-12 months (around 8000 unlocks) before needing replacement. The lock will provide a low battery reminder.



Figure 7.1: Recommended Alkaline Batteries

7.2. Emergency Power Supply

In case of complete battery depletion, the lock is equipped with a USB port for emergency power supply. Connect a power bank to this port to temporarily power the lock and gain access. Note that this port is for power supply only and does not recharge the internal batteries.

7.3. Cleaning

Clean the lock's exterior surfaces with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish and electronic components. Regularly wipe the fingerprint sensor to ensure optimal performance.

8. TROUBLESHOOTING

If you encounter issues with your GEKRONE Smart Fingerprint Lock A290, refer to the following common problems and solutions:

- **Lock Not Responding:** Check battery level. If batteries are low or depleted, replace them or use the USB emergency power port.
- **Fingerprint Not Recognized:** Ensure your finger is clean and dry. Try re-registering your fingerprint if the issue persists. The sensor may require a firm, consistent press.
- **Keypad Not Lighting Up:** Touch the keypad to activate it. If it still doesn't light up, check battery power.
- **Alarm Sounds Repeatedly:** The lock features an anti-pry and anti-trial alarm. If someone attempts to pry the lock or fails to unlock it multiple times, the alarm will sound. Verify the lock's status and ensure no tampering has occurred.
- **Remote Unlocking Fails:** Ensure your lock is connected to your home Wi-Fi network and your mobile device has an active internet connection. Check the TUYA app for connectivity status.
- **Handle Feels Loose:** Recheck the installation screws, particularly those securing the back plate and handles, to ensure they are tightened correctly.

9. SPECIFICATIONS

Brand	GEKRONE
Model Name	A290
Material	Aluminum, ABS, Acrylic

Lock Type	Keypad, Fingerprint, IC Card, App, Mechanical Key
Connectivity Protocol	Wi-Fi
Power Supply	4 x AA Alkaline Batteries (DC6V)
Battery Life	Approx. 10-12 months (8000 unlocks)
Door Thickness Range	1-3/8" to 2-1/8" (35mm-54mm)
Adjustable Latch	2-3/8" (60mm) to 2-1/8" (70mm)
User Capacity	300 Groups (Card+Password+Fingerprint), 9 Groups Administrators
Working Temperature	-20°C to 50°C (-4°F to 122°F)
Working Humidity	10% to 95%
Product Dimensions	14.17 x 7.87 x 4.72 inches
Item Weight	3.85 pounds

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product at the time of purchase or contact GEKRONE customer support directly. GEKRONE is committed to providing reliable products and customer satisfaction.

If you require technical assistance, have questions about your product, or need to report an issue, please contact GEKRONE customer support through their official channels. Contact details are typically available on the product packaging or the official GEKRONE website.