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RUILON PCB10EBL01

RUILON Smart Code Lock User Manual

Model: PCB10EBL01

1. INTRODUCTION

Thank you for choosing the RUILON Smart Code Lock. This intelligent lock cylinder offers multiple unlocking methods, including keypad code, RFID card, and smartphone application control. Designed for easy installation and robust security, it provides a convenient and safe access solution for various environments such as homes, offices, and rental properties. Please read this manual carefully before installation and use to ensure proper operation and maximize the product's lifespan.

2. PRODUCT FEATURES

- **4-in-1 Unlocking Methods:** Unlock via keypad code, RFID card, smartphone application (Bluetooth), or remotely with an optional WiFi Box.
- **RFID Card Management:** Supports up to 20 authorized RFID cards. Three cards are included in the package. Lost cards can be easily removed via the app for security.
- **Password Management:** Supports one administrator password and up to 9 user passwords. Temporary passwords can be generated via the app for limited access.
- **Easy Installation:** Designed for quick installation without drilling or complex wiring. Typically takes about 5 minutes.
- **Adjustable Cylinder:** Compatible with door thicknesses ranging from 50mm to 100mm. The cylinder length is adjustable (exterior 40-55mm / interior 30-60mm).
- **Low Battery Warning:** Provides a reminder when battery power drops below 20%, indicating it's time for replacement.
- **USB Emergency Unlock:** In case of complete battery depletion, the lock can be temporarily powered via a USB power bank for emergency unlocking using the app. This feature is for backup power only, not for charging the internal batteries.

- **Anti-Peep Password:** Allows entry of random digits before or after the actual password to prevent onlookers from guessing your code.
- **Automatic Locking:** The lock automatically secures itself after a successful unlock or after a period of inactivity.

3. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x Smart Lock Cylinder
- 2 x Hexagonal Screwdrivers
- 1 x User Manual
- 3 x RFID Cards
- 1 x Pack of Spare Screws

4. SPECIFICATIONS

Specification	Detail
Model	PCB10EBL01
Dimensions (L x W x H)	1.8 x 4.5 x 4 cm
Weight	480 grams
Material	Stainless Steel
Color	Silver/Black
Power Type	Battery operated (3 x AAA, not included)
Door Thickness Compatibility	50mm - 100mm
Operating Temperature	-25°C to 60°C
Lock Type	Keypad, Combination Lock
Special Features	Backlit Keypad, Battery Indicator, Anti-peep Password

5. SETUP AND INSTALLATION

Before installation, ensure your door meets the following requirements:

- Door thickness: 50mm to 100mm.
- Minimum distance from the center of your lock to the door frame: 40mm.



Figure 5.1: Door and Lock Dimensions for Installation

Installation Steps (Approx. 5 minutes)

1. **Remove Existing Cylinder:** Open the door. Locate and remove the fixing screw from your old lock cylinder on the door edge. Carefully pull out the old cylinder.
2. **Prepare Smart Lock:** Using the small hexagonal screwdriver provided, unscrew and remove the inner knob of the smart lock cylinder.
3. **Insert Smart Lock:** Insert the smart lock cylinder into the lock hole from the outside of the door. Ensure it is properly aligned.

4. **Secure Lock:** Reinsert and tighten the fixing screw on the door edge to secure the smart lock cylinder in place.
5. **Attach Inner Knob:** Reattach the inner knob to the smart lock cylinder.
6. **Tighten Inner Knob:** Use the hexagonal screwdriver to tighten the screw on the inner knob, securing it firmly.



Figure 5.2: Easy Installation Steps

Battery Installation

The lock requires 3 AAA batteries (not included). To install or replace batteries:

1. Locate the battery compartment, usually accessible by removing the outer metal casing or a plastic cover using the provided hexagonal screwdriver.
2. Insert 3 AAA batteries, ensuring correct polarity (+/-).
3. Replace the cover and secure it with the screw.

6. OPERATING INSTRUCTIONS

Initial Setup (Admin Password)

Upon first use, you will need to set an administrator password. This password is crucial for managing other user codes and settings. Follow the on-screen prompts on the lock's display or refer to the specific instructions in the included user manual for setting the admin password.

Unlocking Methods



Figure 6.1: Multiple Unlocking Methods

A. Keypad Code Unlock

1. Wake up the keypad by pressing any key.
2. Enter your valid password. You can use the anti-peep function by entering random digits before or after your actual code.
3. Press the unlock key (usually a checkmark or lock symbol).
4. Rotate the outer handle to open the door.



Figure 6.2: Backlit Keypad

B. RFID Card Unlock

1. Wake up the keypad by pressing any key.
2. Place an authorized RFID card near the card reader area on the lock (usually indicated by a card icon or specific area).
3. The lock will confirm successful reading.
4. Rotate the outer handle to open the door.



Figure 6.3: RFID Card Unlocking

C. Smartphone App Control (Bluetooth)

Download the official RUILON app (often referred to as Welock app) from your smartphone's app store or by scanning the QR code on the product/manual. The app allows for various functions:

- **Unlock:** Directly unlock the door via Bluetooth when within range.
- **Unlock Record:** View a history of all unlocking events, including who unlocked, when, and by what method.
- **Authorization:** Grant unlocking privileges to trusted individuals.
- **Manage Passwords:** Add, delete, or modify user passwords and generate temporary passwords with set validity periods.
- **Manage RFID Cards:** Add or delete RFID cards.



Figure 6.4: App Control Interface

To use the app:

1. Ensure Bluetooth is enabled on your smartphone.
2. Open the RUILON/Welock app and pair it with your smart lock.
3. Follow the in-app instructions for desired actions (unlocking, managing users, etc.).

D. Remote Control (with optional WiFi Box)

For remote unlocking and control from anywhere, a separate WiFi Box is required. This accessory connects your smart lock to your home WiFi network.



Figure 6.5: Remote Control Setup with WiFi Box

Emergency USB Power

If the lock's batteries are completely drained, you can temporarily power it using a standard USB power bank. Connect the power bank to the USB port on the lock (usually located at the bottom of the outer handle). Once powered, you can use the smartphone app to unlock the door. This is for emergency power only and does not charge the internal batteries.



Figure 6.6: USB Emergency Power Connection

7. MAINTENANCE

- **Battery Replacement:** Replace the 3 AAA batteries when the low battery warning is issued. Typically, batteries last for about 1 year.
- **Cleaning:** Wipe the lock's surface with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the finish or electronic components.
- **Regular Checks:** Periodically check that all screws are tight and that the lock operates smoothly.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lock does not respond to input.	Batteries are dead or very low.	Replace batteries. Use USB emergency power to unlock if completely drained.
Keypad code not working.	Incorrect code entered; lock is in lockout mode.	Ensure correct code. If 5 incorrect attempts are made, the lock will auto-lock for a period. Wait for the lockout period to end.
RFID card not recognized.	Card is not authorized or damaged.	Ensure the card is authorized via the app. Try another authorized card. If necessary, re-add the card via the app.
App cannot connect to the lock.	Bluetooth is off; lock is out of range; app issue.	Ensure Bluetooth is on. Move closer to the lock. Restart the app or your phone. Check app permissions.
Lock is difficult to turn after unlocking.	Misalignment during installation; internal mechanism issue.	Check installation alignment. Ensure the door frame is not obstructing the bolt. If issues persist, contact customer support.

9. WARRANTY AND SUPPORT

RUILON provides **2 years of product support** for this smart lock. If you encounter any issues or have questions regarding the installation, operation, or maintenance of your PCB10EBL01 Smart Code Lock, please contact RUILON customer service. Please have your product model and purchase information ready when contacting support.

