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### OBO HANDS with Bolt Lock

# RFID Door Access Control System User Manual

Model: with Bolt Lock

## 1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your OBO HANDS RFID Door Access Control System. This outdoor waterproof kit is designed to provide secure and convenient access management for various applications, featuring a 12V power supply, electric magnetic lock, exit button, and doorbell chime.
Key features include:

- Metal case for enhanced protection.
- Support for up to 1000 standard users.
- Multiple entry modes: Password Only, ID Card Only, or Password + ID Card.
- Lock relay output with secure/normal modes and NO/NC output.
- Built-in bell button for external bell connection.
- Integrated 125KHZ ASK modulation proximity card reader and keypad for PIN entry.
- Auxiliary input & output with 8 auxiliary modes (door ajar, forced door, shunt, door monitor, normal/secure).
- Programmable siren time and lock strike release time.

## 2. Safety Information

**WARNING: Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.**

- Installation should be performed by a qualified professional due to the hard-wired nature of the system.
- Ensure the power supply is disconnected before performing any wiring or maintenance.
- Do not expose the system to extreme temperatures or direct water immersion beyond its waterproof rating.
- Use only the specified 12V DC power supply.
- Keep out of reach of children.

## 3. Product Overview and Components

The RFID Door Access Control System kit includes the following main components:

- Access Control Keypad
- Electric Magnetic Lock (Bolt Lock type)

- 12V Power Supply Control Unit
- Exit Button
- Rain Cover for Keypad
- RFID Keyfobs (multiple included)




Figure 3.1: Overview of the complete RFID Door Access Control System kit components.




Figure 3.2: The access control keypad shown with its protective rain cover, suitable for outdoor installation.

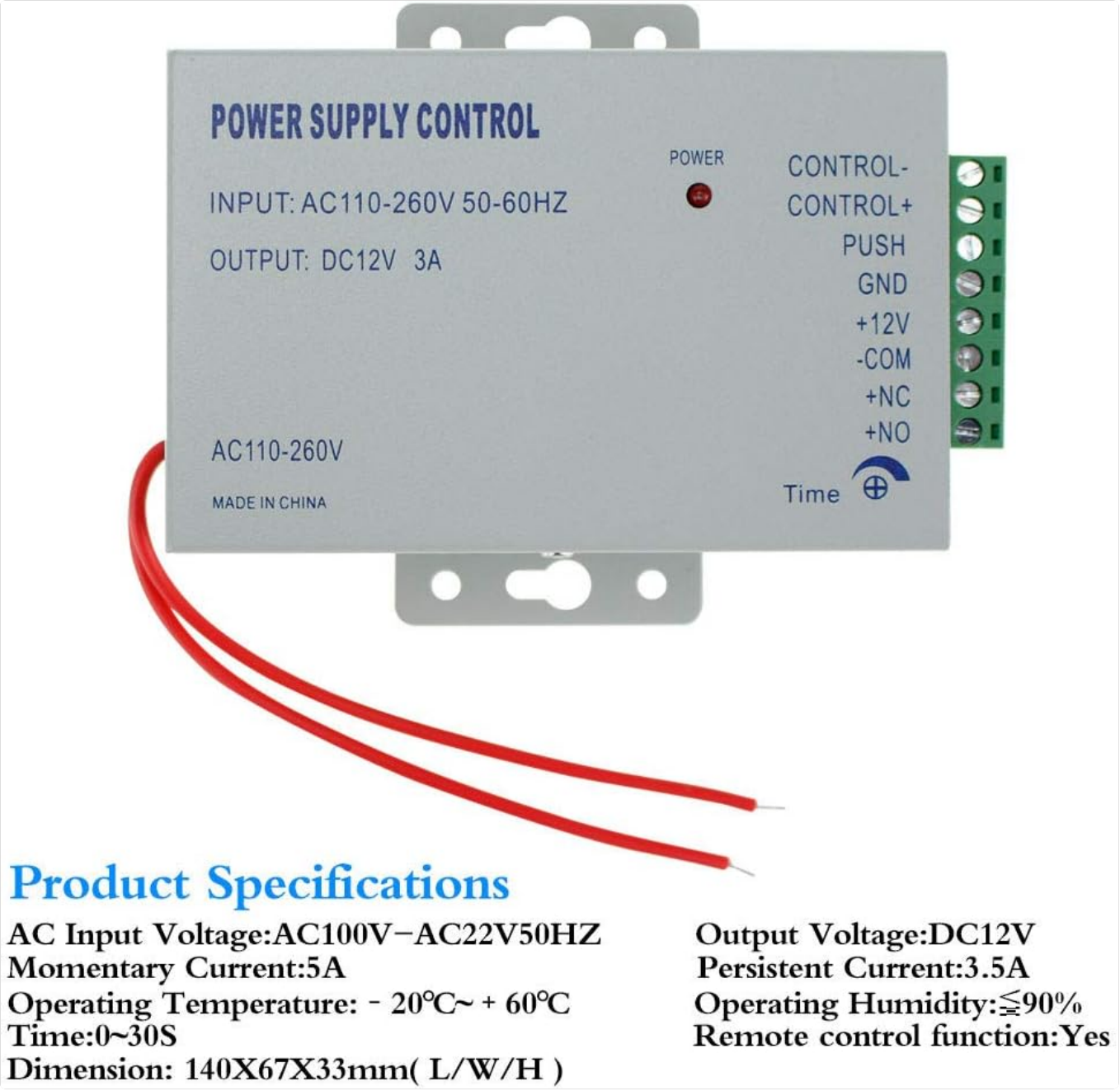


Figure 3.3: The 12V DC power supply control unit, which powers the entire access system.




Figure 3.4: Detailed view of the electric magnetic bolt lock, featuring adjustable time settings for secure operation.

## 4. Setup and Installation

This system requires professional hard-wired installation. It is recommended to consult a qualified electrician or security system installer for proper setup.

### 4.1 Wiring Diagram (Conceptual)

While a specific wiring diagram is not provided in this manual, the general connections involve:

- Connecting the 12V Power Supply Control Unit to a main AC power source (AC110-260V).
- Connecting the Access Control Keypad to the power supply and the electric lock.
- Connecting the Electric Magnetic Lock to the power supply unit's lock relay output (NO/NC).
- Connecting the Exit Button to the keypad or power supply for internal door release.
- Optional: Connecting an external doorbell chime to the keypad's bell output.

**Important: Ensure all connections are secure and insulated to prevent short circuits and electrical hazards. Verify correct polarity for DC connections.**

### 4.2 Mounting the Components

1. **Keypad:** Mount the access control keypad at a convenient height near the door. If installing outdoors, ensure the rain cover is properly fitted to protect the unit from weather elements.
2. **Magnetic Lock:** Install the electric magnetic bolt lock securely on the door frame and door, ensuring proper

alignment for effective locking.

3. **Power Supply:** Mount the power supply control unit in a secure, dry location, preferably indoors or within a protective enclosure.
4. **Exit Button:** Install the exit button on the inside of the door for easy egress.

## 5. Operating Instructions

The system supports various access methods and user management features.

### 5.1 Initial Setup and Master Code

Upon initial power-up, the system will be in a default state. Refer to the specific programming guide (not included in this general manual) for setting the master code and entering programming mode. The master code is essential for managing users and system settings.

### 5.2 User Management

The system can store up to 1000 standard users.




Figure 5.1: The system supports ID Card Only, Password Only, and ID Card + Password access modes.

- **Adding Users:** To add new users (RFID cards or PINs), enter programming mode using the master code, then follow the prompts to register new credentials.
- **Deleting Users:** Individual users or all users can be deleted from the system memory through programming mode.

## 5.3 Access Modes

Users can gain access using one of the following methods:

- **Password Only:** Enter the assigned PIN code on the keypad.
- **ID Card Only:** Present a registered RFID card to the keypad's reader.
- **Password + ID Card:** Present a registered RFID card, then enter the associated PIN code. This mode offers enhanced security.

## 5.4 Door Release

- **Via Keypad:** Successful authentication (card, PIN, or both) will momentarily release the electric lock.

- **Via Exit Button:** Pressing the exit button on the inside will release the lock for egress.

## 6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your access control system.

- **Cleaning:** Wipe the keypad and other components with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically check all wiring connections for signs of wear or damage. Ensure the magnetic lock is free of debris and properly aligned.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates, though this system typically does not require frequent updates.
- **Rain Cover:** Ensure the rain cover for the outdoor keypad is clean and securely in place to provide optimal weather protection.

## 7. Troubleshooting

If you encounter issues with your system, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| System is unresponsive / No power. | No power to the control unit; loose wiring; faulty power supply. | Check AC power source. Verify all wiring connections. Test power supply output. |
| Door does not unlock after valid entry. | Lock wiring issue (NO/NC incorrect); faulty lock; incorrect programming. | Check lock wiring to the power supply. Ensure lock is functioning. Verify programming for lock release time. |
| RFID card not recognized. | Card not registered; incompatible card type (e.g., HID, encrypted); faulty card. | Ensure the card is properly registered. Confirm it is a 26-bit EM card. Try another card. |
| Keypad buttons are not responding. | Keypad damage; internal fault. | Inspect keypad for physical damage. If problem persists, contact support. |
| Alarm function triggers unexpectedly. | Tamper detection; door ajar; forced entry attempt. | Check for physical tampering. Ensure door sensors are correctly installed and calibrated. Review auxiliary mode settings. |

## 8. Specifications

| Feature | Detail |
|---|---|
| Input Voltage | DC 12V (for system operation); AC110-260V (for power supply unit) |
| Frequency | 125kHz (for RFID reader) |
| Compatible Cards | All 26-bit EM cards (Does not support encrypted cards like HID, Cobra, APCiK) |
| Operation Temperature | -31°C to 63°C (-23.8°F to 145.4°F) |
| User Capacity | 1000 standard users |

| Feature | Detail |
|---|---|
| Dimensions (L x W x H) | 5.59 x 4.41 x 8.5 inches |
| Item Weight | 2.33 pounds |
| Connectivity Technology | Wireless (for communication within the system, not external network) |
| Installation Type | Professional hard-wired |
| Included Components | Keypad, Lock, Exit button, Power Supply, Raincover, Keyfob |

## 9. Warranty and Support

OBO HANDS products undergo rigorous quality testing to ensure reliability and durability. For any questions or issues, please contact our support team.

- **Customer Support:** WhatsApp: +86 177 2255 8183 (Mon-Sun 24/7)
- **Quality Assurance:** Our products comply with industry standards including FCC, CE, and UL.

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