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## OBO HANDS T22

# OBO HANDS RFID Standalone Keypad Access Control Card Reader (Model T22)

User Instruction Manual

## 1. PRODUCT OVERVIEW

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The OBO HANDS Model T22 is a standalone RFID access control keypad designed for secure entry systems in homes, apartments, and factories. It offers multiple access methods and a large user capacity for flexible security management.



Figure 1: OBO HANDS T22 Keypad and Included Keyfobs

### Key Features:

- **3 Ways To Open the Door:** RFID card, password, or a combination of RFID card + password.
- **Storage Capacity:** Supports up to 1000 users (cards and passwords).
- **Package Contents:** Includes 1 keypad, 10 EM Keyfobs, and 1 EM-ID Crystal Tag.
- **Ease of Use:** Designed for straightforward programming and operation.

## 2. PRODUCT COMPONENTS AND DIMENSIONS

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Familiarize yourself with the main components and physical dimensions of the T22 access control keypad.

# Product Analysis

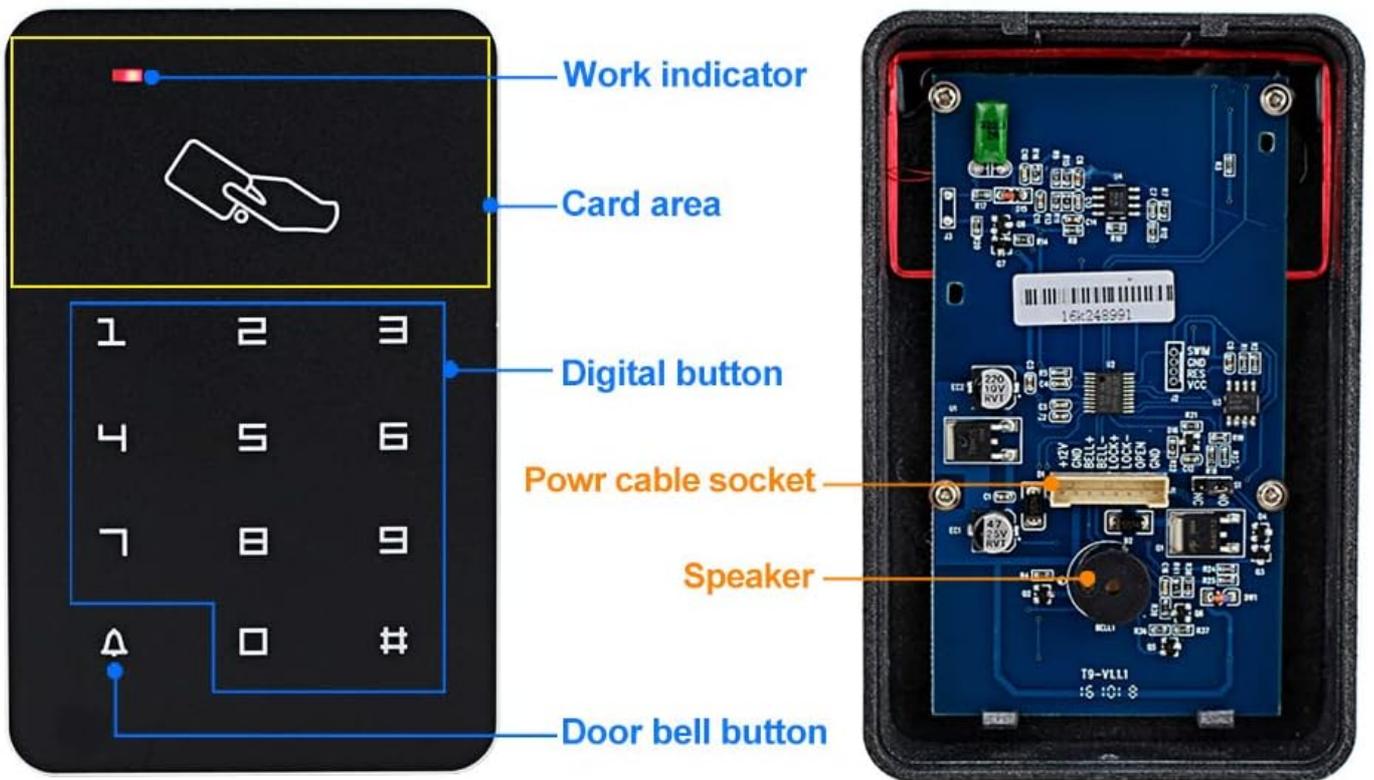


Figure 2: Keypad Component Analysis

- Work indicator: Shows operational status.
- Card area: Where RFID cards/keyfobs are swiped.
- Digital button: Numeric keypad for password entry.
- Power cable socket: Connection point for power.
- Speaker: Provides audio feedback.
- Door bell button: For visitor notification.



Figure 3: Keypad Dimensions and Access Methods

The keypad measures approximately 120mm in length, 78mm in width, and 20mm in thickness. It supports access via card, PIN, or a combination of card and PIN. The surface is designed to be waterproof.

# RFID Keyfobs

1. Material: ABS / PVC
2. Working Frequency: 125KHz
3. Chip: EM4100
4. Support: read only, not support write.
5. Reading distance: 0-10cm
6. Each card pre programmed and has a unique identity number on it..
7. Color: Blue, red, green, yellow, black.
8. Quantity: 10pcs. If you want more RFID key cards, please contact us. Thank you!

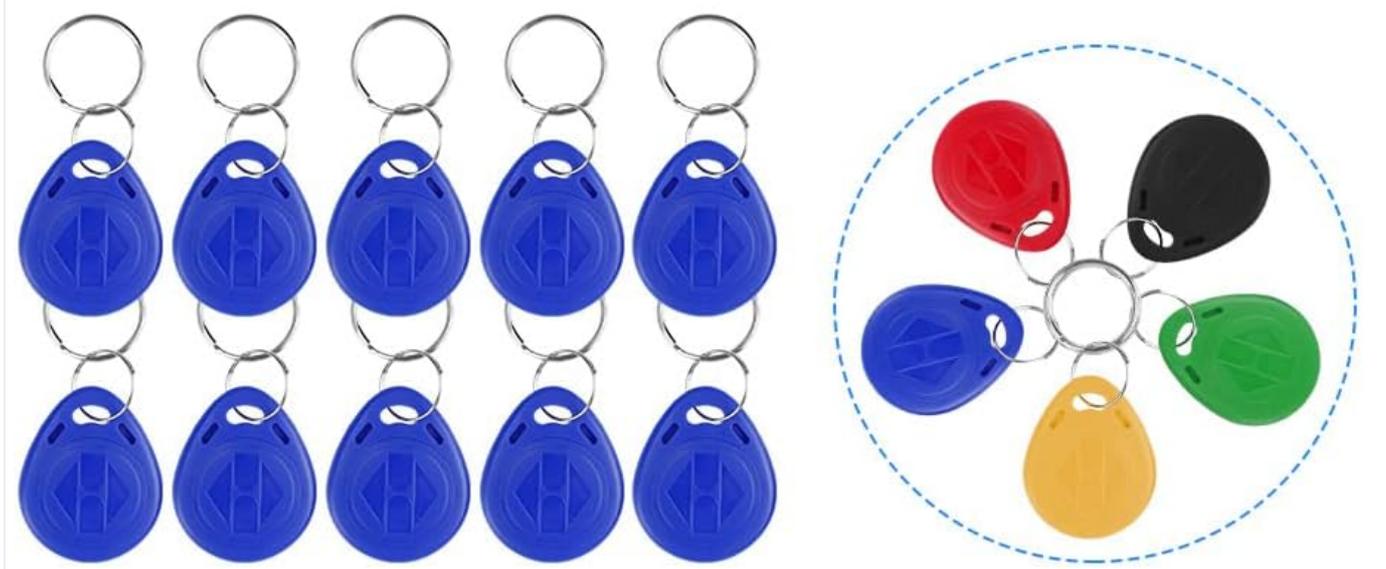


Figure 4: EM4100 RFID Keyfobs

## RFID Keyfobs Specifications:

- **Material:** ABS / PVC
- **Working Frequency:** 125KHz
- **Chip:** EM4100
- **Support:** Read only (not write support).
- **Reading Distance:** 0-10cm
- **Pre-programmed:** Each card is pre-programmed with a unique identity number.
- **Colors:** Available in Blue, red, green, yellow, black.
- **Quantity:** 10 pieces included in the package.

## 3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your access control system. The following diagram illustrates the wiring connections.

# Wiring diagram:

(Note: Both of the power supply, lock, exit button does Not included in the package, need to buy extra)

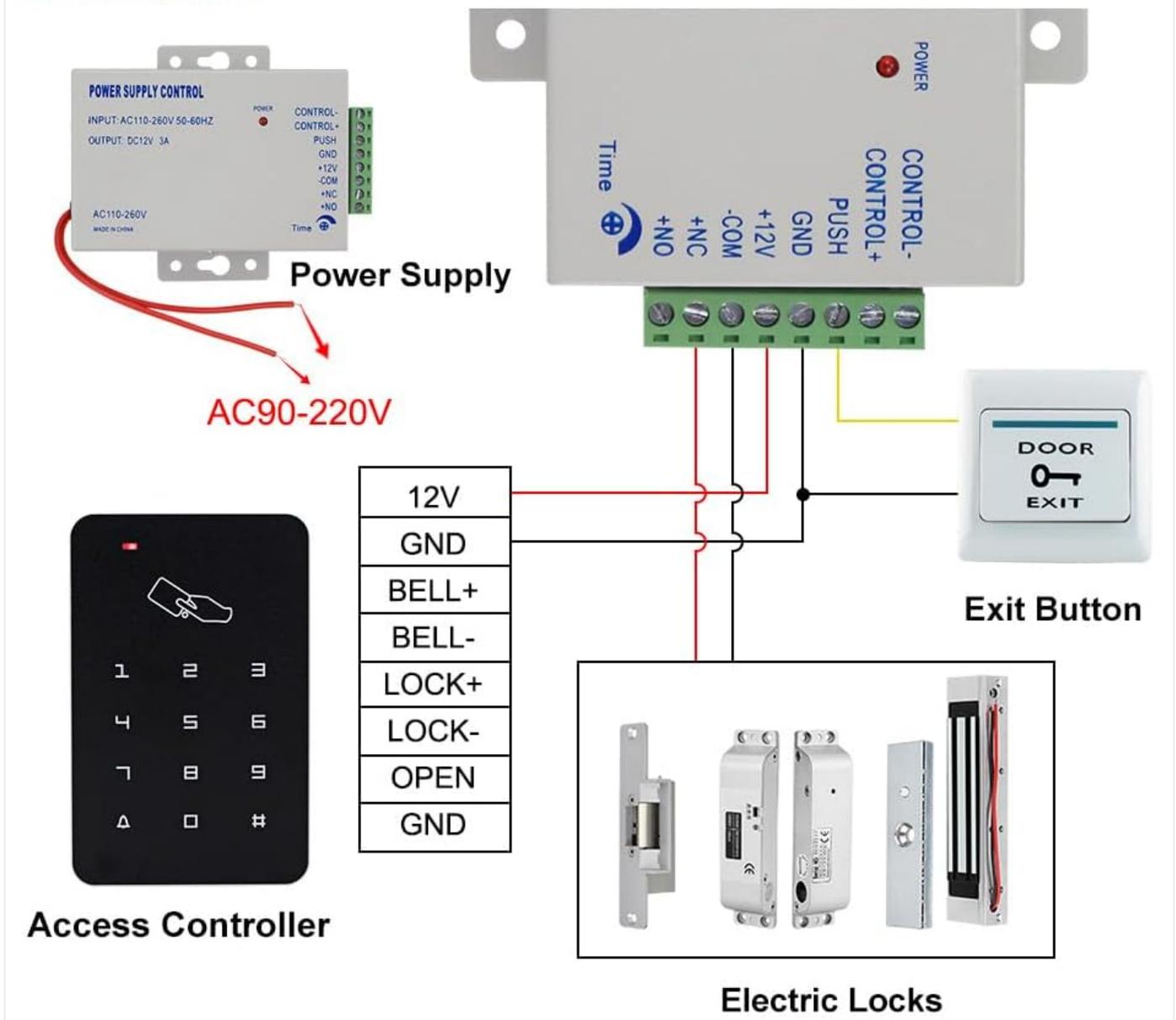


Figure 5: Wiring Diagram

Note: Power supply, lock, and exit button are not included in the package and must be purchased separately.

## Wiring Connections:

1. Connect the **12V** and **GND** wires from the access controller to the corresponding 12V DC power supply output.
2. Connect **BELL+** and **BELL-** to an external doorbell if desired.
3. Connect **LOCK+** and **LOCK-** to your electric lock. Ensure correct polarity based on your lock type (NO/NC).
4. Connect **OPEN** to the exit button.
5. Ensure all connections are secure and insulated to prevent short circuits.

## 4. OPERATING INSTRUCTIONS

The T22 keypad offers various functions for managing access. Below are common operations and programming steps.

### Access Methods:

- **RFID Card:** Present a programmed RFID card or keyfob to the card area.
- **Password:** Enter a valid password on the digital keypad.
- **RFID Card + Password:** Present a programmed RFID card, then enter the associated password.

## Programming Functions:

The following video demonstrates key programming steps for the T22 keypad:



Video 1: How to Program Keyfobs and Passwords

This video provides a visual guide for programming your OBO HANDS T22 access control keypad. It covers:

- Demonstration of invalid card/password attempts.
- Steps to set a public password.
- Procedure for adding new RFID cards.
- Procedure for deleting existing RFID cards.
- Steps to modify the program password.
- Demonstration of successful card swiping after programming.

## Common Programming Codes (Refer to video for detailed steps):

- **Default Program Password:** 123456
- **Setting Public Password:** # 123456 # 21 [New Public Password] # (e.g., # 123456 # 21 0987 #)
- **Adding Card:** # 123456 # 1 + [Card #] # (Swipe card after entering 1)
- **Deleting Card:** # 123456 # 40 0000 # (Deletes all cards) or # 123456 # 40 [Card #] # (Deletes specific card)
- **Modify Program Password:** # 123456 # 0 [New Program Password] # [New Program Password] # (e.g., # 123456 # 0 456789 # 456789 #)

Always ensure you are in programming mode (indicated by a specific light or sound) before entering commands. Refer to the video for visual cues and exact sequences.

## 5. MAINTENANCE

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To ensure the longevity and reliable operation of your OBO HANDS T22 keypad, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the keypad surface. Avoid abrasive cleaners, solvents, or excessive moisture, which can damage the electronics.
- **Environmental Conditions:** While the surface is waterproof, avoid prolonged exposure to extreme temperatures, direct sunlight, or heavy rain.
- **Cable Integrity:** Periodically inspect the wiring connections for any signs of wear, damage, or loose connections. Ensure all connections remain secure.
- **Avoid Impact:** Protect the keypad from physical impact or dropping, as this can cause internal damage.

## 6. TROUBLESHOOTING

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If you encounter issues with your T22 keypad, refer to the common problems and solutions below:

Problem	Possible Cause	Solution
Keypad does not respond.	No power or loose connection.	Check power supply and all wiring connections. Ensure power is on.

Problem	Possible Cause	Solution
Invalid card/password (red light/beep).	Card not programmed or incorrect password.	Ensure the card is correctly programmed. Verify the password entered is accurate. Refer to "Operating Instructions" for programming.
Door does not unlock after successful entry.	Lock wiring issue or lock malfunction.	Check the wiring to the electric lock. Test the lock independently if possible.
Keypad beeps continuously.	Stuck key or internal error.	Check if any keys are physically stuck. Disconnect power for 10 seconds and reconnect to reset.

If the problem persists after attempting these solutions, please contact customer support.

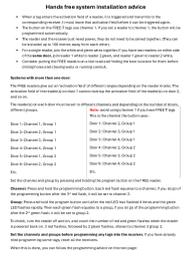
## 7. SPECIFICATIONS

Attribute	Detail
Manufacturer	OBO HANDS
Model Number	T22
Product Dimensions	120mm x 78mm x 20mm
Item Weight	90.7 grams (3.2 ounces)
Voltage	12 Volts
Charging Port Type	Barrel Jack
Display Type	Digital
Batteries Required	No
Included Components	Keypad

## 8. WARRANTY AND SUPPORT

OBO HANDS is committed to providing high-quality products and customer satisfaction. For any questions, concerns, or technical assistance, please contact our support team.

- **Customer Support:** For immediate assistance, you can reach us via WhatsApp.
  - **WhatsApp:** +86 177 2255 8183
  - **Availability:** Monday - Sunday, 24/7
- **Warranty Information:** Please refer to your purchase documentation or contact customer support for specific warranty terms and conditions.

	<p><a href="#">Hands-Free System Installation and Programming Guide</a></p> <p>Comprehensive guide to installing and programming FREE hands-free access control systems, covering reader placement, channel/group settings, and tag programming procedures.</p>
	<p><a href="#">SANSUI T22 TWS Bluetooth Earbuds User Manual and Specifications</a></p> <p>Comprehensive guide to SANSUI T22 TWS Bluetooth earbuds, covering operation, charging, pairing, maintenance, and specifications. Includes FCC compliance information.</p>
	<p><a href="#">SANSUI T22 TWS Bluetooth Headphones User Manual</a></p> <p>Comprehensive user manual for the SANSUI T22 TWS Bluetooth Headphones, covering setup, operation, charging, pairing, maintenance, and specifications.</p>
	<p><a href="#">Tzumi Metro TWS Bluetooth Earbuds User Manual and Specifications</a></p> <p>User manual and technical specifications for Tzumi Metro TWS Bluetooth Earbuds, covering pairing, controls, charging, and FCC compliance.</p>
	<p><a href="#">Circutor URBAN &amp; URBAN WB EV Charging Station Manual</a></p> <p>User and configuration guide for Circutor URBAN and URBAN WB electric vehicle charging stations, covering installation, operation, and technical specifications.</p>
	<p><a href="#">Letscom True Wireless Earbuds T22 User Manual</a></p> <p>Comprehensive user manual for Letscom True Wireless Earbuds T22, covering package contents, setup, usage, functions, troubleshooting, specifications, safety, and warranty information.</p>