

LIBO Smart Home T22-XXS

LIBO T22-XXS RFID Access Control System User Manual

Model: T22-XXS | Brand: LIBO Smart Home

PRODUCT OVERVIEW

The LIBO T22-XXS RFID Access Control System is a comprehensive solution for single-door access management. This kit includes an access control keypad, a DC12V electric bolt lock, a 3A power supply, an exit button, and 10 RFID key cards. It supports multiple access methods including RFID card, password, or a combination of card and password, and can be fully programmed directly from the keypad without requiring a computer connection. This system is suitable for various door types, including wooden, glass, metal, and fireproof doors, making it ideal for homes, hotels, offices, apartments, and factories.

PACKAGE CONTENTS

- 1 x Access Control Keypad (Model: T22)
- 1 x Power Supply (Model: K80)
- 1 x Electric Drop Bolt Lock
- 1 x Door Exit Button
- 10 x RFID Keyfobs (125KHz, EM ID type)
- 1 x User Manual (this document)

COMPONENT IDENTIFICATION



Figure 1: Access Control Keypad Layout

This image displays the front of the access control keypad, highlighting key components such as the Work Indicator LED, Card Area for RFID keyfobs, Digital Buttons (0-9), Door Bell Button (triangle), and Enter button (hash).



Figure 2: Electric Drop Bolt Lock Details

This image shows the electric drop bolt lock from multiple angles, including its dimensions (150x34x28mm), the 12.5mm diameter lock core extending 15mm, and an indicator lamp with adjustable time delay settings (0s, 3s, 6s).



Figure 3: Door Exit Button Dimensions

This image illustrates the door exit button, detailing its dimensions (86x86x8mm) and showing the front and rear views with connection terminals.



Figure 4: RFID Keyfobs

A visual representation of the 10 blue RFID keyfobs included in the kit, which operate at 125KHz (EM ID type) and are read-only.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and security of your access control system. It is recommended that installation be performed by a qualified technician if you are unfamiliar with electrical wiring.

Wiring Diagram



Figure 5: System Wiring Diagram

This diagram illustrates the connections between the power supply, access controller (keypad), electric drop bolt lock, and exit button. Ensure all connections are secure and follow local electrical codes.

Installation Example



Figure 6: Example Installation

This image provides a visual example of how the access control system components, including the keypad, electric drop lock, and exit button, might be installed on a typical door.

Wiring Notes:

- **Electric Drop Bolt Lock:** Connect the red wire to "NC" and the black wire to "GND". The yellow and white wires are not used and do not need to be connected.
- **Power Supply:** Ensure AC input is Standard AC100V-240V 50-60HZ and DC output is DC12V/3A.
- **Exit Button:** Connect to the NO/COM output of the power supply.
- Refer to the detailed wiring diagram for all connections.

OPERATING INSTRUCTIONS

The system supports access via RFID card, password, or a combination of both. All programming is done directly through the keypad.

Keypad Programming Overview

The keypad uses a programming password (default: 123456) to enter programming mode. The '#' key is used to confirm entries and exit programming mode. The '*' key is typically used for clearing or canceling.

Video Guide: How to Operate the Access Control Keypad

Your browser does not support the video tag.

Video 1: Keypad Operation Guide

This video demonstrates various operations of the access control keypad, including setting the public password, adding and deleting RFID cards, and modifying the program password. It provides a visual walkthrough of the programming steps.

Basic Operations:

1. Entering Programming Mode:

Press **#**, then enter the 6-digit programming password (default: **123456**), then press **#** again. The indicator light will change to green, indicating you are in programming mode.

2. Exiting Programming Mode:

Press **#** to exit programming mode. The indicator light will return to red.

3. Setting Public Password:

In programming mode: **#** + **123456** + **#** + **21** + **[New 4-digit Public Password]** + **#**. (Example: **#123456#210987#**)

4. Adding RFID Cards:

In programming mode: **#** + **123456** + **#** + **1** + **[Swipe Card]** + **#**. Repeat swiping for additional cards. Exit programming mode when finished.

5. Deleting RFID Cards:

In programming mode: **#** + **123456** + **#** + **40** + **[Swipe Card to Delete]** + **#**. To delete all cards: **#** + **123456** + **#** + **40** + **0000** + **#**.

6. Modifying Program Password:

In programming mode: **#** + **123456** + **#** + **0** + **[New 6-digit Program Password]** + **#** + **[Confirm New 6-digit Program Password]** + **#**. (Example: **#123456#0456789#456789#**)

7. Opening the Door:

- **Using RFID Card:** Swipe a programmed RFID keyfob over the Card Area.
- **Using Password:** Enter the public password, then press **#**.
- **Using Card + Password:** Swipe a programmed RFID keyfob, then enter the public password, then press **#**.
- **Using Exit Button:** Press the Door Exit Button from inside to open the door.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the keypad and other components. Avoid abrasive cleaners or solvents.
- **Power Supply:** Ensure the power supply is in a well-ventilated area and free from obstructions.
- **Wiring:** Periodically check all wiring connections for tightness and signs of wear or damage.
- **Keyfobs:** Keep RFID keyfobs away from strong magnetic fields to prevent potential data corruption.
- **Electric Lock:** The electric bolt lock is waterproof and suitable for outdoor use, but regular inspection for debris or obstruction is recommended.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Keypad does not respond.	No power or loose connection.	Check power supply and all wiring connections. Ensure DC12V power is supplied.
RFID card swipe fails (Invalid Card).	Card not programmed or incorrect card type.	Ensure the card is a 125KHz EM ID type. Program the card using the "Adding RFID Cards" instructions.

Problem	Possible Cause	Solution
Door does not unlock after correct entry.	Electric lock malfunction or wiring issue.	Check the electric lock wiring (red to NC, black to GND). Verify the lock receives power and operates correctly.
Cannot enter programming mode.	Incorrect programming password.	Ensure you are using the correct 6-digit programming password. If forgotten, refer to the manufacturer for reset procedures (may require advanced steps not covered here).
Exit button does not work.	Wiring issue or faulty button.	Check the exit button wiring to the power supply (NO/COM). Test the button for continuity.

SPECIFICATIONS

T22 Stand-alone Access Control Keypad:

- **Voltage:** 12VDC
- **Current:** 120mA
- **User Capacity:** 1000 users
- **Proximity Reader Frequency:** 125KHz
- **Compatible Cards:** EM or EM compatible card
- **External Reader:** Not supported
- **Reading Distance:** 3-10cm
- **Access Modes:** Card, password, Card + password
- **Programming:** Full programming from keypad, stand-alone operation
- **Dimensions:** 117 x 75 x 22mm
- **Material:** Plastic

K80 Power Supply:

- **AC Input:** Standard AC100V-240V 50-60HZ 36W
- **DC Output:** DC12V/3A
- **Outputs:** NC / NO (for various electric locks)
- **Protection:** Automatic short circuit protection
- **Dimensions:** 100 x 65 x 32mm
- **Material:** Metal

Electric Drop Bolt Lock:

- **Working Voltage:** DC12V
- **Working Current:** Start state 1.2A, Persistent state 120mA
- **Mode:** NC Mode (Fail-safe: unlocked when power off, locked when power on)
- **Lock Core:** Diameter 12.5mm, extending length 15mm
- **Compatibility:** Wooden door, Glass door, Metal door, Fireproof door, etc.
- **Time Delay:** 0s, 3s, 6s adjustable
- **Waterproof:** Yes, suitable for outdoor use
- **Dimensions:** 150 x 34 x 28mm
- **Wiring:** Red to "NC", Black to "GND". Yellow and white wires are unused.

Door Exit Button:

- **Dimensions:** 86 x 86 x 8mm
- **Material:** Fireproof ABS plastic
- **Power Input:** DC 12V
- **Output Contact:** NO / COM

RFID Keyfobs:

- **Frequency:** 125KHz
- **Chip:** TK4100
- **Color:** Blue
- **Type:** Read Only, EM ID type
- **Quantity:** 10 pieces

WARRANTY AND SUPPORT

This LIBO Smart Home product comes with a **1-year warranty**. Additionally, lifetime technical support is provided to assist you with any questions or issues you may encounter during the product's lifespan.

For support, please contact LIBO Smart Home customer service through your purchase platform or the official website.

