UHPPOTE HBK-A04T

UHPPOTE 2.4-inch Display Door Access Control Touch Keypad

Model: HBK-A04T

Introduction

The UHPPOTE HBK-A04T is a sophisticated 2.4-inch TFT display door access control touch keypad designed for enhanced security and convenience. It supports various access methods including card and code, and integrates with the Tuya Smart App for remote control and management. This manual provides detailed instructions for installation, wiring, operation, and troubleshooting to ensure optimal performance of your access control system.



Figure 1: UHPPOTE HBK-A04T Access Keypad with mobile app integration.

Key Features

- **Ergonomic Design:** Engineered for ease of operation and user comfort.
- **2.4" TFT Display:** Features a clear display screen for convenient programming and interaction.
- **Tuya Smart App Compatibility:** Seamlessly integrates with Tuya Smart, allowing remote control and

management of connected appliances via the free app (available on iOS and Android).

- **Versatile Application:** Suitable for a wide range of environments including factories, residential areas, offices, and various mechanical and electrical control setups.
- **High-Performance MCU:** Utilizes an ST 32-bit MCU for stable performance and a low-power circuit design for extended service life.
- **Built-in OMRON Power Relay:** Equipped with a 10A switching capacity, providing excellent switching performance for electric locks.
- **Built-in WiFi Module:** Enables wireless connectivity for smart features.

Package Contents

Please verify that all items are present and in good condition upon opening the package:

- UHPPOTE HBK-A04T Access Keypad
- Mounting Hardware (screws, anchors)
- User Manual

Installation

Follow these steps to properly install the HBK-A04T Access Keypad:

1. **Prepare the Wall:** Drill four holes for the self-tapping screws and one hole for the cable on the desired wall surface.
2. **Insert Anchors:** Place the plastic anchors into the four drilled holes.
3. **Mount Back Cover:** Securely fix the back cover onto the wall using the four self-tapping screws.
4. **Attach Keypad:** Thread the keypad's cable through the cable hole in the back cover, then attach the keypad to the back cover.



Figure 2: Access Keypad installed on a wall, ready for use.



Figure 3: Rear view of the keypad, illustrating the mounting plate and cable routing.

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Video 1: This video demonstrates the physical installation process of the HBK-A04T access keypad, including drilling holes, mounting the back cover, and attaching the keypad.

Wiring Instructions

Proper wiring is crucial for the functionality of the access control system. Refer to the diagrams and videos below for detailed instructions.

Connecting with Remote Receiver and Power Supply

This section details how to connect the access keypad to a remote receiver and a power supply unit.

1. Connect the positive 12V wire from the keypad to the +12V terminal of the power supply.
2. Connect the GND wire from the keypad to the GND terminal of the power supply.
3. Connect the PUSH wire from the keypad to the PUSH terminal of the remote receiver.

4. Connect the COM wire from the keypad to the COM terminal of the remote receiver.

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Video 2: This video illustrates the wiring process for connecting the access keypad to a remote receiver and a power supply unit (HBK-P02).

Connecting with Remote Receiver and Power Adapter

This section provides instructions for connecting the access keypad to a remote receiver using a power adapter.

1. Combine the power adapter's connector with the keypad's wiring. Ensure positive and negative poles are correctly identified.
2. Connect the +12V wire from the keypad to the positive pole of the power adapter.
3. Connect the GND wire from the keypad to the negative pole of the power adapter.
4. Connect the PUSH wire from the keypad to the PUSH terminal of the remote receiver.
5. Connect the COM wire from the keypad to the COM terminal of the remote receiver.
6. Power on the keypad and the remote receiver.
7. If the lock is a fail-safe type, set the lock type on the remote receiver to NC.
8. Tap the RF icon on the remote receiver, then press the button on the transmitter to pair the transmitter with the receiver.

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Video 3: This video demonstrates the wiring for connecting the access keypad to a remote receiver using a power adapter, including pairing the transmitter.





Figure 4: General wiring diagram for the access control system, showing connections for power, keypad, and lock.

Operation

The HBK-A04T features a user-friendly interface for easy operation and programming.

Accessing the Main Menu

1. When the device is in standby mode, tap the menu button (usually represented by three horizontal lines or a gear icon).
2. Select 'Admin' to enter the main menu. The default admin code is 123456.




Menu
Add Users
Del Users
Door Setup
Settings
Device
Info
Esc:
Enter: #
CARD



Figure 5: Main menu interface of the HBK-A04T keypad, showing options like Add Users, Del Users, Door Setup, Settings, Device, and Info.

Menu Functions Overview

- **Add Users:** Add new card users or code users.
- **Del Users:** Delete users by card, user ID, or card number. Option to delete all users.
- **Door Setup:** Configure door open mode (card or code), time delay, multi-card access, and output mode.
- **Settings:** Adjust anti-tamper alarm, buzzer, backlight, screen sleep, and language.
- **Device:** Set admin card, admin code, public code, Wi-Fi match, and factory reset.
- **Info:** View the quantity of users and device version.

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Video 4: This video provides a comprehensive guide to operating the HBK-A04T keypad, including navigating the main menu and configuring various settings.

Tuya Smart App Integration

The HBK-A04T can be controlled and managed remotely via the Tuya Smart App. Follow these steps to connect your device:

1. **Download the App:** Download the free Tuya Smart App from the iOS App Store or Google Play Store.
2. **Register/Log In:** Register for a new account or log in if you already have one.
3. **Add Device:** In the app, tap to add a new device. The app will search for nearby devices.
4. **Enter Wi-Fi Information:** Input your Wi-Fi SSID and password.
5. **Enter Pairing Mode on Keypad:** On the HBK-A04T keypad, navigate to Settings > WiFi Match > Yes to enter pairing mode. This process may take 30-180 seconds.
6. **Complete Pairing:** Once the keypad is in pairing mode, the app will discover and add the device.



Figure 6: Remote control of the access keypad via the Tuya Smart App.

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Video 5: This video demonstrates the process of connecting the HBK-A04T keypad to the Tuya Smart App for remote control and management.

Specifications

Attribute	Value
Product Dimensions	6.12 x 3.17 x 1.52 inches
Item Weight	4.8 ounces
Item Model Number	HBK-A04T

Attribute	Value
Manufacturer	UHPPOTE
Country of Origin	China
Date First Available	March 19, 2015

Troubleshooting

If you encounter issues with your UHPPOTE HBK-A04T, refer to the common problems and solutions below:

- **Keypad Not Powering On:**
  - Check all power connections to ensure they are secure and correctly wired.
  - Verify the power supply is providing the correct voltage (12V).
  - Ensure the power adapter is functioning correctly.
- **Access Denied (Valid Card/Code):**
  - Ensure the card or code is correctly programmed into the system.
  - Check the 'Door Setup' settings for correct open mode (Card or Code).
  - Verify the time delay setting is appropriate.
- **Door Not Unlocking:**
  - Inspect the wiring to the electric lock for any loose connections or damage.
  - Confirm the lock type (fail-secure/fail-safe) is correctly configured in the remote receiver settings (if applicable).
  - Check the power supply to the lock.
- **Wi-Fi Connectivity Issues:**
  - Ensure the keypad is within range of your Wi-Fi router.
  - Verify the Wi-Fi SSID and password entered during pairing are correct.
  - Try restarting both the keypad and your Wi-Fi router.
  - Perform a 'Factory Reset' on the keypad and attempt Wi-Fi pairing again.
- **Keypad Unresponsive:**
  - Attempt a soft reset by disconnecting and reconnecting power.
  - If unresponsive after power cycle, consider a factory reset (note: this will erase all user data).

Warranty and Support

UHPPOTE products are manufactured to high quality standards. For warranty information, technical support, or

service inquiries, please refer to the contact details provided on the product packaging or visit the official UHPPOTE website. Keep your purchase receipt for warranty claims.