UHPPOTE HBK-A01 Access Control Keypad User Manual

Contents

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UHPPOTE HBK-A01 Access Control Keypad

Product Information

Specifications

- **Operating Voltage:** 12VDC
- **Lock Output Load:** Max. 1.5A
- **Card Capacity:** 500
- **Card Type:** Standard 125KHz EM
- **PIN Capacity:** 500
- **Door Open Time:** 0-99 seconds
- **Idle Current:** 50mA
- **Operating Humidity:** 10%-90%RH
- **Waterproof:** No
- **Enclosure Material:** ABS Plastic
- **Product Weight:** 100g
- **Enclosure Size:** 100x100x18.5mm
- **Wiring Connections:** Electric Lock, Exit Button, External Bell

Product Usage Instructions

Installation

1. Remove the back cover from the keypad.
2. Drill 4 holes on the wall for the self-tapping screws and 1 hole for the cable.

3. Put the supplied plastic anchors into the 4 holes.
4. Fix the back cover firmly on the wall with 4 self-tapping screws.
5. Thread the cable through the cable hole.
6. Attach the keypad to the back cover.

Wiring Diagram

- **Common Power Supply Diagram:**
  Common Power Supply Diagram
- **Special Power Supply Diagram:**
  Special Power Supply Diagram

Sound and Light Indication

Operation Status	LED Indicator	Buzzer
Standby	White	A short beep
Press #	Red	A short beep
Press # #	Flash yellow	A short beep
In the programming mode	Yellow	Flash blue
PIN only mode	Blue	Green
Other mode	Blue	Green
The menu is waiting to be selected	F1latimshegreen	A short beep
The menu selected	Flash red 3 times	3 short beeps
Unlock the lock	–	A short beep
Enter the PIN	–	A short beep
Operation successful	–	A short beep
Operation failed	–	Press digit key

Operation Guide

- **Purpose:** To enter the programming mode
- **Operation:** # Admin Code #
- **Remarks:** The default admin code is 123456.
- **Purpose:** To return to the previous menu in the programming mode
- **Operation:** #
  - **Purpose:** To exit from the programming mode
- **Operation:** *

  The following operations must be done in the programming mode:
  - **Purpose:** To change the admin code
- **Operation:** New Admin Code # Repeat New Admin Code #

    - **Remarks:** The admin code can be 4-8 digits long.
    - **Purpose:** To read card users
- **Operation:** Read Card N #
    - **Purpose:** To add card users
- **Operation:** Add users
    - **Remarks:** Add a card user with ID number by using the following operation: User ID Number # Read Card #
    - **Purpose:** To add or change a PIN user
- **Operation:** User ID Number # PIN #
    - **Remarks:** The user ID number is any 4-digit number from 0001 to 9999. Users can be added continuously by repeating the operation.

FAQ

- **Q: What is the operating voltage of the product?**
  A: The operating voltage is 12VDC.
- **Q: What is the maximum lock output load?**
  A: The maximum lock output load is 1.5A.
- **Q: What is the card capacity?**
  A: The card capacity is 500.
- **Q: What type of cards does it support?**
  A: It supports Standard 125KHz EM cards.
- **Q: What is the PIN capacity?**
  A: The PIN capacity is 500.
- **Q: What is the door open time range?**
  A: The door open time range is 0-99 seconds.
- **Q: Is the product waterproof?**
  A: No, the product is not waterproof.
- **Q: What is the enclosure material of the product?**
  A: The enclosure material is ABS Plastic.
- **Q: What is the weight of the product?**
  A: The product weight is 100g.
- **Q: What are the dimensions of the enclosure?**
  A: The enclosure size is 100x100x18.5mm.
- **Q: What are the wiring connections required?**
  A: The wiring connections required are for the electric lock, exit button, and external bell.

USER MANUAL

Packing List

	Operating Voltage	12VDC	Lock Output Load	Max. 1.5A	
	Card Capacity	500	Card Type	Standard 125KHz EM	
	PIN Capacity	500	Door Open Time	0-99 seconds	
	Card Reading Distance	Max. 6cm	Operating Temperature	-22°F-140°F	
	Idle Current	50mA	Operating Humidity	10%-90%RH	
	Waterproof	No	Enclosure Material	ABS Plastic	
	Product Weight	100g	Enclosure Size	100x100x18.5mm	
	Wiring Connections	Electric Lock, Exit Button, External Bell			

Introduction

This RFID card access control unit controls 1 door. It uses ST MCU to ensure stable performance, and low-power circuit makes the service life longer. OMRON power relay with 10A switching capacity provides an excellent switching performance for electric locks. It is widely used in factories, houses, residential quarters, offices, mechanical and electrical control equipment and so on.

Features

- Full programming from the keypad.
- Supports Card, PIN, Card + PIN, Card or PIN.
- Can be used as standalone keypad.
- Adjustable door open time.
- Very low power consumption.
- Lock output current short circuit protection.
- With bell function, supports external bell.
- Adopt the switch mode power supply (SMPS) solution.
- Built-in buzzer.
- Red, blue, white, yellow and green LED indicators display the working status.

Specifications

	Operating Voltage	12VDC	Lock Output Load	Max. 1.5A	
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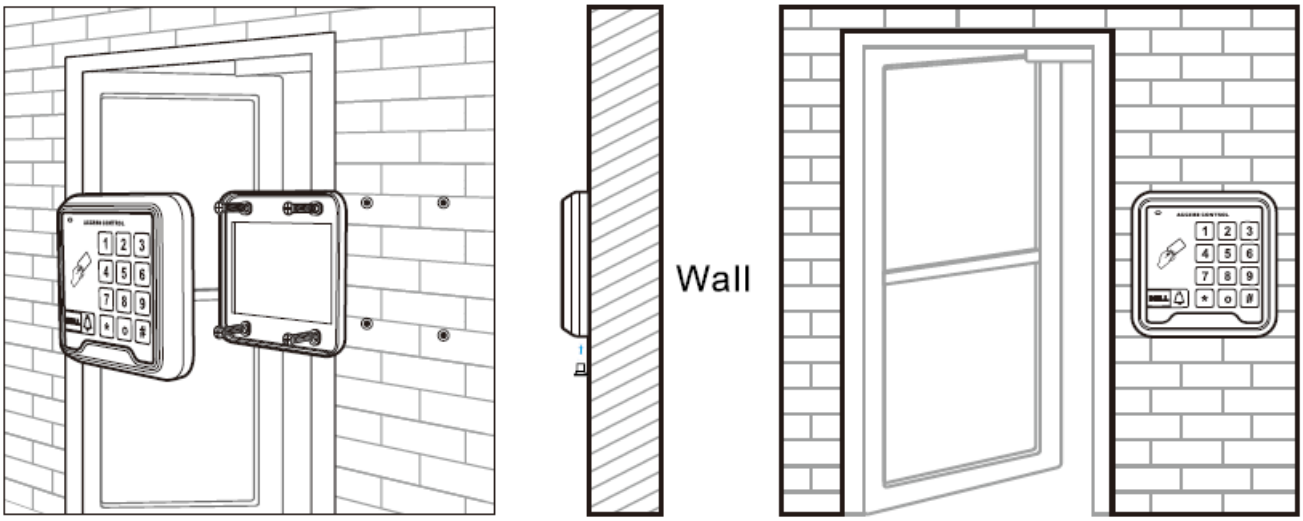
	Waterproof	No	Enclosure Material	ABS Plastic	
	Product Weight	100g	Enclosure Size	100x100x18.5mm	
	Wiring Connections	Electric Lock, Exit Button, External Bell			

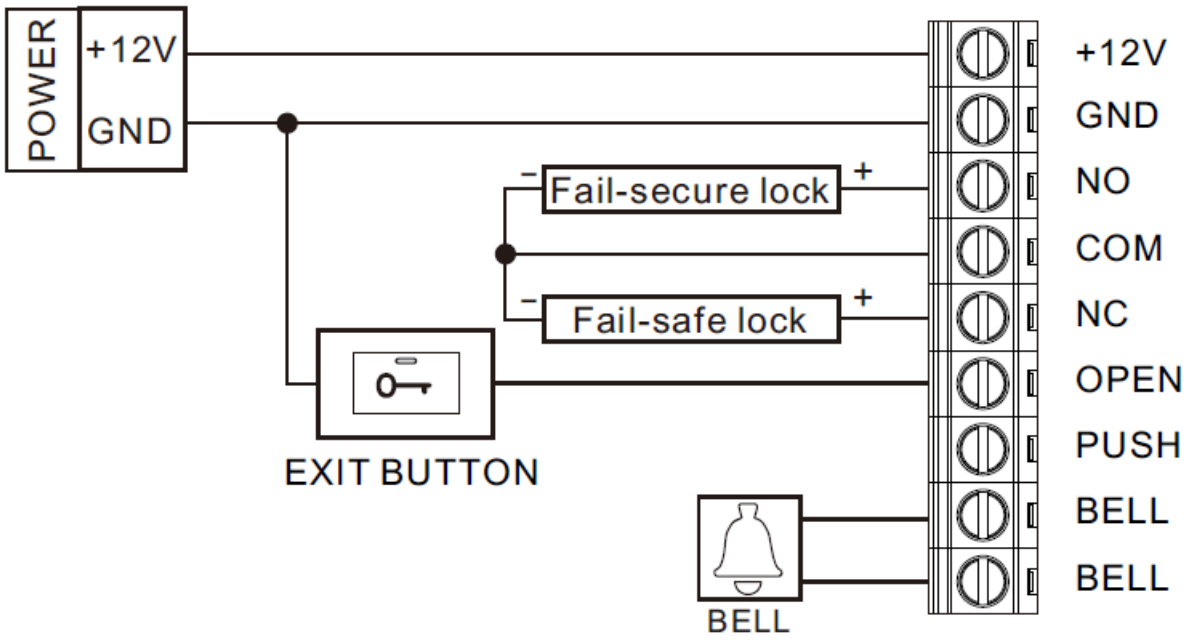
Installation

- Remove the back cover from the keypad
- Drill 4 holes on the wall for the self-tapping screws and 1 hole for the cable Put the supplied plastic anchors into the 4 holes
- Fix the back cover firmly on the wall with 4 self-tapping screws
- Thread the cable through the cable hole
- Attach the keypad to the back cover

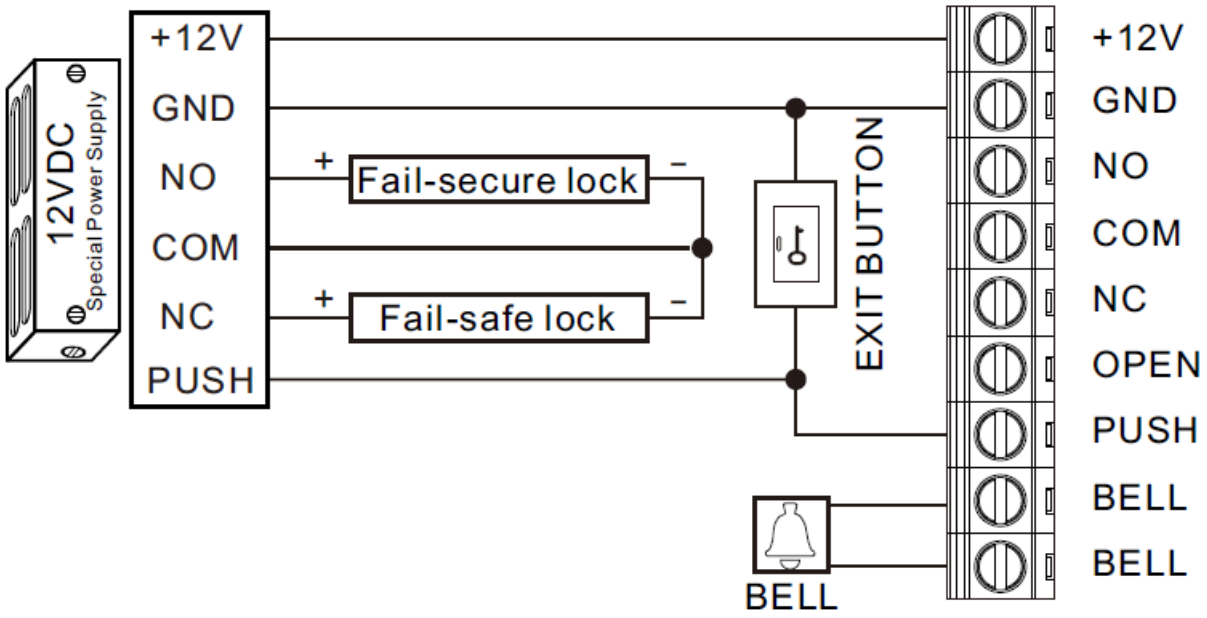


Wiring Diagram

- **Common Power Supply Diagram:**



- **Special Power Supply Diagram:**



Sound and Light Indication

Operation Status		LED Indicator	Buzzer
Standby	PIN only mode	White	
	Other mode	Red	
Press #		Flash yellow	
Press # #		Yellow	
In the programming mode	The menu is waiting to be selected	Flash blue	
	The menu selected	Blue	
Unlock the lock		Green	A short beep
Enter the PIN		Blue	
Operation successful		Flash green 1 time	A short beep
Operation failed		Flash red 3 times	3 short beeps
Press digit key			A short beep

Operation Guide

Purpose	Operation	Remarks
Enter the programming mode	# Admin Code #	The default admin code is 123456.
Return to previous menu in the programming mode		#
Exit from the programming mode		*

The following operations must be done in the programming mode

Basic Operation

Change the admin code	0	New Admin Code # Repeat New Admin Code #	The admin code can be 4-8 digits long.
Add users	1	0 Read Card 1 Read Card 2 ..... Read Card N #	Add card users
		1 User ID Number # Read Card #	Add a card user with ID number
		2 User ID Number # PIN #	Add or change a PIN user
		The user ID number is any 4-digit number from 0001 to 9999. Users can be added continuously by repeating the operation.	
Delete users	2	0 Read Card 1 Read Card 2 ..... Read Card N #	Users can be deleted continuously.
		1 User ID Number #	The cards can be deleted when they are broken or lost.
		2 8 digits or 10 digits card number #	For example, the card number is 0006307890 09616434, can input 0006307890 or 09616434.
		3 0000 #	Delete all users. Attention: Delete all PIN users & card users except the super open code.

Set super open code	3	Super Open Code # Repeat Super Open Code #	Support one set super open code which can be used to open the door in any open mode.
		0000 #	Delete the super open code
Set open mode	4	0 #	Entry is by either Card or PIN (Default)
		1 #	Entry is by Card and PIN together
		2 #	Entry is by PIN only
		3 #	Entry is by Card only
Set open time	5	XX #	XX is any number from 0 to 99. The factory default setting is 3 seconds.

Advanced Application

6	1	XX #	Set Multi-cards to open	XX is any number from 1 to 10. The factory default setting is 1. The door will opened when the quantity of valid cards read. Only for Card Only mode.

Alarm Setting

7	1	0 #	Set anti-tamper alarm	OFF (Default)
		1 #		ON

System Setting				
8	1	0 #	Set keypad output mode	Set to Normal Mode. The door will locked automatically after an unlock operation.
		1 #		Set to Toggle Mode. The door will keep unlocking until next unlock operation.
Optional Setting				
9	1	0 #	Set buzzer	ON (Default)
		1 #		OFF
Remark: All code can be 4 to 8 digits long except every as zero.				

The following operations must be done out of programming mode		
Set the code of an added card	# # Read an Added Card PIN # Repeat PIN #	
Reset to the default admin code	**1.** Disconnect the power. **2.** Press 00 # within 5 seconds after the HBK-A01 is powered on.	Resets the admin code to 123456.
Reset to default setting	**1.** Disconnect the power. **2.** Press 99 # within 5 seconds after the HBK-A01 is powered on.	Resets the device to the factory default settings.

Unlock the Lock	
For a PIN user	Input the PIN, then press #
For a Card user	Read Card
For a Card and PIN user	Read Card (the LED indicator flashes green), then input PIN #

Troubleshooting

- **Q: Why can’t the door be unlocked after I swipe an added card?**

A: Please check weather you have set the door open mode to entry by PIN only.

- **Q: Why is there no sound when I press the numeric keypad**
  A: Please check wether you have disabled buzzer. If yes, please enable buzzer according to the operation guide.
- **Q: Why there are 3 short beeps when I try to add a card user in the programming mode?**
  A: This card has been added already.
- **Q: Why isn't the door unlocked when the LED indicator keeps flashing green after I swipe the added card?**
  A: You have set the door open mode to entry by Card and PIN, please unlock the door by using card and PIN together.
- **Q: How to replace the card which was corresponding to a certain user ID number?**
  A: Please delete this user ID number firstly and then re-add it.

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

Documents / Resources

	UHPPOTE HBK-A01 Access Control Keypad [pdf] User Manual HBK-A01 Access Control Keypad, HBK-A01, Access Control Keypad, Control Keypad, Keypad

References

- User Manual