Standalone Access Control

User Manual

HBK-A01

1 Packing List

Name	Quantity	Remarks
Access Keypad	1	
User Manual	1	
Plastic Anchors	4	Ø6mmx25mm, used for fixing
Self-Tapping Screw	4	Ø4mmx25mm, used for fixing

2 Introduction

This RFID card access control unit controls 1 door, and it uses ST MCU assuring stable performance and low-power circuit makes long service life. 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.

3 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.
Built-in buzzer.
Red, blue, white, yellow and green LED indicators display the working status.

4 Specifications

Operating Voltage	12VDC	Lock Output Load	Max. 1.5A
Card Capacity	500	Card Type	Standard 125KHz EM
PIN Capacity	500	Door Relay time	0-99 seconds
Card Reading Distance	Max. 6cm	Operating Temperature	-40 ℃～60 ℃
Idle Current	50mA	Operating Humidity	10%-90%RH
Waterproof	No	Shell Material	PC + ABS
Product Weight	100g	Shell Size	100x100x18.5mm
Wiring Connections	Electric Lock, Exit Button, External Bell		

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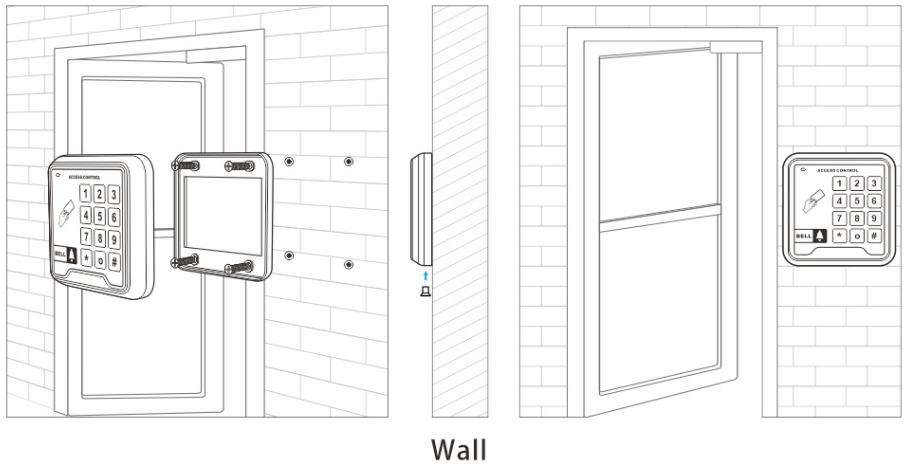
Remove the back cover from the keypad
Drill 4 holes on the wall for the self-tapping screws and 1 hole for the cable
Put the supplied rubber plugs into the 4 holes
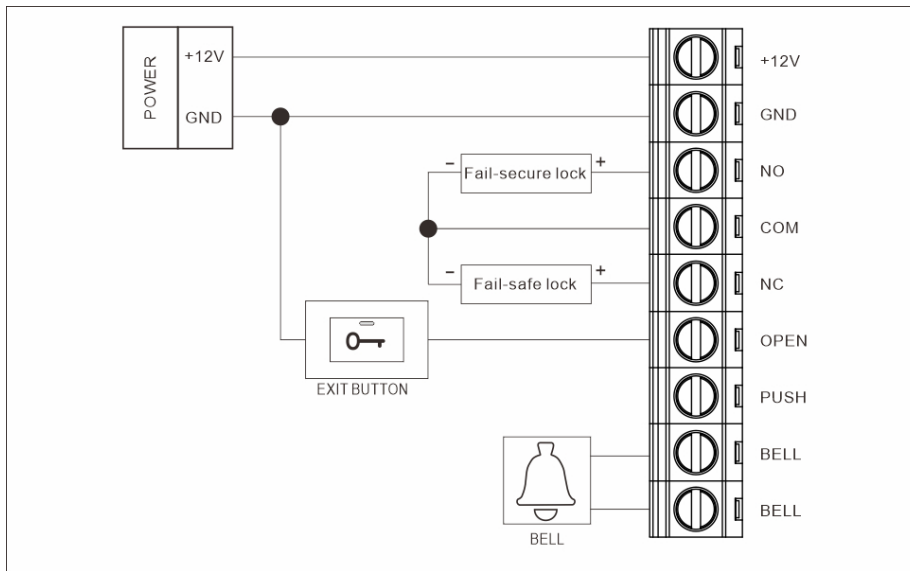Fix the back cover firmly on the wall with 4 self-tapping screws
Thread the cable through the cable hole
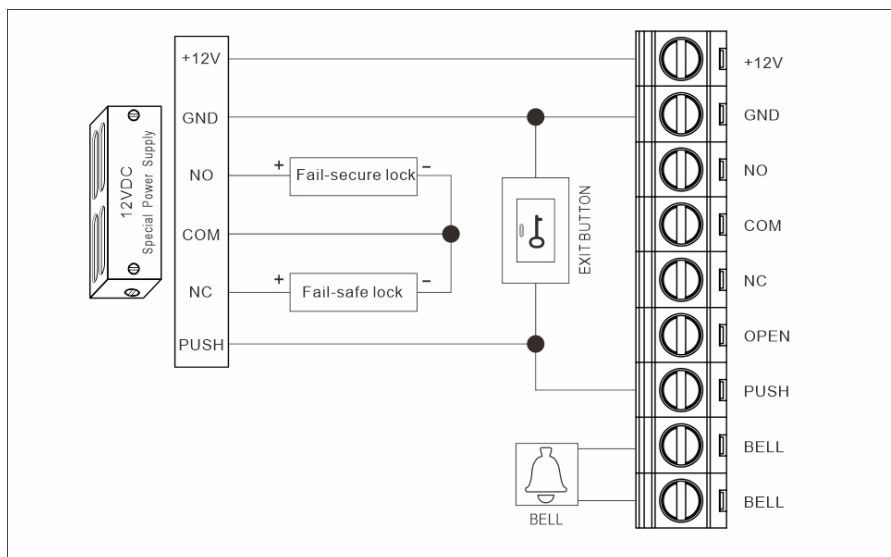Attach the keypad to the back cover

Wall

6 Wiring Diagram

Common Power Supply Diagram:

Special Power Supply Diagram:

7 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	When a menu is waiting to be selected	Flash blue	
	When a menu has been 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

8 Operation Guide

Purpose		Operation		Remarks
To enter the programming mode		# Admin Password #		The default factory admin password is 123456. The keypad will exit from the programming mode automatically if there is no operation in 30 seconds.
To return to previous menu in programming the mode		#		
To exit from the programming mode		*		
Note that the following operations must be done in the programming mode				
Basic Operation				
To change the admin password	0	New Admin Password # Repeat New Admin Password #		The admin password can be 4-8 digits long.
To add users	1	0 Read Card 1 Read Card 2……Read Card N #		To add card users
		1 User ID Number # Read Card #		To add a card user with ID number
		2 User ID Number # PIN #		To 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.		
To 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 format card number #		For example, the card number is 0006307890 09616434, and you can input 0006307890 or 09616434.

		3 0000 #		To delete all users Attention: Delete all PIN users & card users except super open password.
To set a super open password	3	Super open password # Repeat super open password #		Only can set one set of super open password which has the highest permission to open the door and it can be used to open the door in any door open mode.
		0000 #		To delete the super open password
To set door 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
To set door unlock time	5	XX #		XX is any number from 0 to 99. The factory default setting is 3 seconds.

Advanced Application				
6	1	XX #	To set Multi-cards to open the door	XX is any number from 1 to 10. The factory default setting is 1. The door will open only when the quantity of the valid cards which it reads is up to the quantity you set. It is only for Card Only mode.
Alarm Setting				
7	1	0 #	To set anti-tamper alarm	OFF (Default)
		1 #		ON
System Setting				
8	1	0 #	To set keypad output mode	Default value, to set the output mode of the keypad to Normal Mode. After an unlock operation, the lock is unlocked, then the lock will be locked automatically after the door unlock time you set is up.
		1 #		To set the output mode of the keypad to Toggle Mode. After an unlock operation, the lock will keep unlocking until there is another unlock operation again, then the lock will keep locking, and so on.
Optional Setting				
9	1	0 #	To Set Buzzer	ON (Default)
		1 #		OFF

Remarks: All passwords can be 4 to 8 digits long, but you can't set every digit as zero.

Note that the following operations must be done out of the programming mode

To set or change a PIN of an added card	## Read an Added Card PIN # Repeat PIN #	
To reset to the default admin password	1) Disconnect power from the device 2) Press 00 # within 5 seconds after powering the device back up.	This operation only resets the admin password to 123456, and it will not delete the users and settings.
To reset to the default factory setting	1) Disconnect power from the device 2) Press 99 # within 5 seconds after powering the device back up.	This operation only resets the device to the default factory settings.

To Unlock the lock

For a PIN user	Enter the PIN then press #
For a Card user	Read Card
For a Card and PIN user	Read Card (the light will flashes green) then enter PIN #

Troubleshooting:

1 Q: Why can't the door be unlocked after I swipe an added card?

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

2 Q: Why there is no sound when I press the numeric keypad ?

A: Please check whether you have disabled buzzer. If yes, please enable buzzer according to the operation guide.

3 Q: Why there are 3 short beeps when I try to add a card user under programming mode.?

A: This card has been added already.

4 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.

5 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 Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.