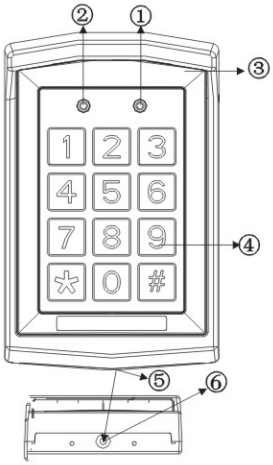
HK-10



NO.	Description
①	Mode indicator
②	Door indicator
③	Antenna
④	Touch keypads
⑤	Case screw
⑥	Night–lighting indicator

Working conditions:
temperature: -20°C ~ +50°C
RH: ⩽95%
Current and voltage requirements:
DC input: ⎓ +12V - +24V
AC input: ~ 9V - 18V
standby current: ⩽80mA
working current: ⩽110mA
Applicable card mode:
EM ID card(Default)
T5557/T5567 card(Setting required)
Effective distance: 5cm
Capacity:
ZONE 1: up to 1000 passwords & card holders
ZONE 2: up to 10 passwords OR card holders

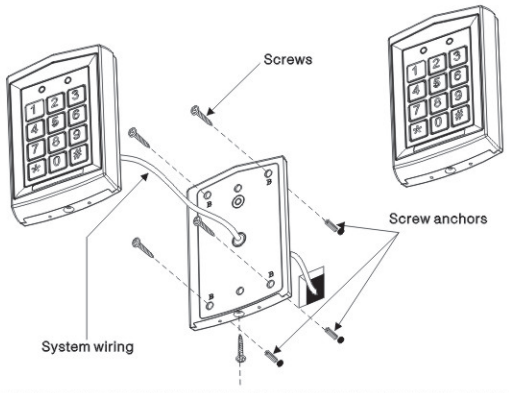
Specifications / Features

1. With internal EM reader.
2. Frequency: 125KHz.
3. Effective distance: 5cm.
4. ZONE 1: up to 1000 passwords & card holders.
   ZONE 2: up to 10 passwords OR card holders..
5. Card access, code access and combined access.
6. Digital keypad operation.
7. Built-in pickproof function.
8. Watchdog timer, powerful reboot and self-recovery watchdog can connect with the external unlock button.
9. Dual relay outputs.
10. Unlock output delay time: 0~99s.
11. IP rating: 65.
12. Dimension: 76*120*28mm.
13. Dual relay outputs for door opening, door status detecting, open door by button. The function of door status detecting just for ZONE 1.

Installation

Before installation, position the location where the controller unit is to be mounted, operation according to the following steps:

1. Open the controller by loosening and removing the back case screw at the bottom using the spline tool.
2. Use the provided drilling template accurately locate and drill the required holes, the four drilling holes marked "B".
3. Use the screws provided to mount the back case on the wall, be sure to draw the wiring through the large centre hole in back case, and keep it level.
4. Connected accurately the system wiring as per the label enclosed on the rear.
5. Replace the unit back and screw it on by using the spline tool.



Operation

1. 2 zones relays can be programmed for opening the lock, up to 1000 user cards and correlative codes can be stored into ZONE 1, 10 user cards or codes can be stored into ZONE 2 . In addition the ZONE 1 can be programmed for 3 modes to open the lock: only the card access, both the code and card access, combined access. The ZONE 2 could be programmed for door bell.
2. Default code is 1234.
3. Input the admin default code twice (1234+1234, if you ever set the admin code is four digits.)
   In cases:
   a. if you ever set the admin code is two digits, please input 12 12
   b. if you ever set the admin code is three digits, please input 123 123
   c. if you ever set the admin code is five digits, please input 12345 12345
   The rest may be deduced by analogy..... The admin codes maximum is six digits.

After you enter in the admin mode, the yellow LED will be lighting.

Access mode setting

Enter the setting mode:
Press the button * and 0, the mode indicator will flash yellow, follow the button 0 twice, the mode indicator will turn yellow, a long beep will be heard. It indicates that only the card access is available.
Press the button * and 0, the mode indicator will flash yellow, follow the button 0 and 1, the mode indicator will turn yellow, a long beep will be heard, it indicates that both the card and code access are available.
Press the button * and 0, the mode indicator will flash yellow, follow the button 0 and 2, the mode indicator will turn yellow and a long beep will be heard, it indicates that card and code access combined is available.
Press the button # to quit the setting mode and standby.

Set the length of passwords

Enter the setting mode:
Press the button * 9 and yellow LED indicator will be flashing, then press the button 0 4 and a sound "BI" as reminder, then input X(X=2,3,4, 5,6):
2--Stands for the password/code digit length is 2(00-99)
3--Stands for the password/code digit length is 3(000-999)
The rest may be deduced by analogy, and maximum is 6.
A sound "BI" as reminder, means digit length setting successfully. In case the sound is "BI BI BI", means digit length as same as existence, setting is not permitted.
Press the button # to quit setting mode and standby.

NOTICE **In case the digit length changed, all added cards and passwords clean out.**

Add the user card and code(ZONE 1)

Enter the setting mode:
Press one number from 000 to 999 data storage units, yellow LED indicator will be flashing:
1. At same time, if red LED indicator lighting, means this number data storage unit existed data, press the button * twice to clean up;
2. If green LED indicator lighting, means this number data storage unit can be added card and passwords in.

Add card and passwords steps:
1. Enter in setting mode, and the yellow LED indicator will be flashing.
2. Input three-figure from 000 to 999 data storage units, and the green LED indicator lighting.
3. Swipe card, and a sound "BI" means added in. Then input the correlative passwords(correlative for the card just added in this data storage unit) the length of passwords should be as same as admin code. For example, the admin code is 12 (two is the length), herein should setting two digits passwords, you can set 00-99 as your passwords. If the admin code is 123 (three is the length), herein should setting three digits passwords, you can set 000-999 as your passwords. The rest may be deduced by analogy····· After the sound "BI", means card added in and passwords setting successfully.

Press the button # to quit setting mode and standby.

Add the user card or code(ZONE 2)

Enter the setting mode:
Press the button * and 4 , the yellow LED indicator will be flashing, input two-figure from 00 to 09 data storage units, yellow LED indicator will be flashing;
1. At same time, if red LED indicator lighting, means this number data storage unit existed data, press the button * twice to clean up;
2. If green LED indicator lighting, means this number data storage unit can be added card or passwords in.

Add card or passwords steps:
Swipe card, and a sound "BI" means added in; Orinput the correlative passwords (correlative for the card just added in this data storage unit) the length of passwords should be as same as admin code. For example, the admin code is 12 (two is the length), herein should setting two digits passwords, you can set 00-99 as your passwords. If the admin code is 123 (three is the length), herein should setting three digits passwords, you can set 000-999 as your passwords. The rest may be deduced by analogy..... After the sound "BI", means card added in or passwords setting successfully.

Press the button # to quit the setting mode and standby.

Set the unlocking time for ZONE 1

Enter the setting mode:
Press the button * and 1 , the mode indicator will flash yellow, follow the number from 00 to 99, the mode indicator will turn yellow in the mean time a long beep will be heard, it indicates a success of delay time setting. 00-99 means the delay time. I.e. 05 means the unlocking time is 5s delayed. If setting lock-time as 00 means: swipe card or input password once open the door, swipe card or input password again close the door.
Press the button # to quit the setting mode and standby.

Set the unlocking time for ZONE 2

Enter the setting mode:
Press the button * and 5, the mode indicator will flash yellow, follow the number from 00 to 99, the mode indicator will turn yellow in the mean time a long beep will be heard, it indicates a success of delay time setting. 00-99 means the delay time. I.e. 05 means the unlocking time is 5s

Modify administrator code

Enter the setting mode:
Press the button * and 3 , the yellow LED indicator will be flashing, then input a new administrator code twice(The length of the admin code must as same as X) and a sounds "BI" means modify succeed.
Press the button # to quit the setting mode and standby.

Turn on/off the pickproof alarm

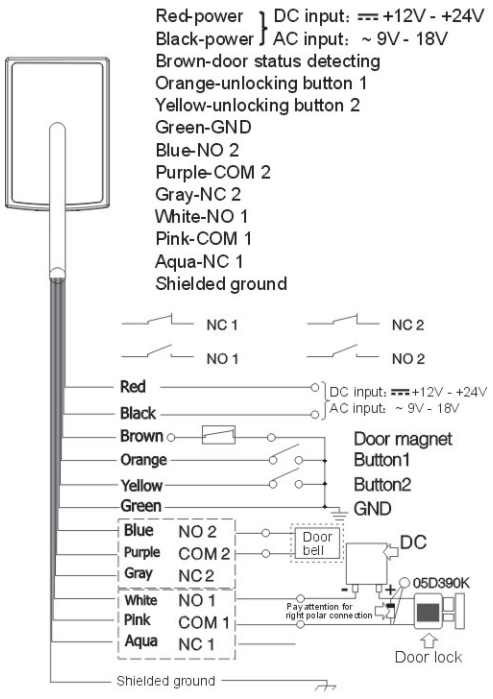
Enter the setting mode:
Press the button * and 6 (mode indicator will flash yellow), then following enter the 0 and 1 , a long beep will be heard whilst the mode indicator will turn yellow, pickproof alarm is turned off.
Press the button * and 6 (mode indicator will flash yellow), then following enter the 0 and 2 , a long beep will be heard whilst the mode indicator will turn yellow, pickproof alarm is turned on.
Press the button # to quit the setting mode and standby.

Turn on/off the door bell

Enter the setting mode:
Press the button * and 2 (mode indicator will flash yellow), then following enter the 0 and 1 , a long beep will be heard whilst the mode indicator will turn yellow, the function of door bell is turned off.
Press the button * and 2 (mode indicator will flash yellow), then following enter the 0 and 2 , a long beep will be heard whilst the mode indicator will turn yellow, the function of door bell is turned on.
Press the button # to quit the setting mode and standby.

The relay in ZONE 2 for door bell is available if the function of door bell is turned on but the function of door lock is not available. Press the button * in standby mode, the relay contacts one time, the door bell ringing is triggered.

Wiring Diagram (Un-networked)



Add the master card(only useful for ZONE 1)

Enter the setting mode:
Press the button * and 7 , the mode indicator will flash green, it indicates there is no master card stored, if the indicator turns red, it indicates there is already data existed, press the button * twice to clean up the data, and then indicator will flash green, swipe the master card, a long beep will be heard, it indicates that adding success.
Press the button # to quit the setting mode and standby.

Using the master card enter the setting mode

Swipe the master card, the indicator will flash yellow whilst a long "BI" will be heard, enter the setting mode. Swipe the master card again, the indicator will turn green whilst three times rapid beep will be heard, quit the setting mode.
The access control will be locked for 60s if the mistaken code continuously input or swipe the invalid card for 5 times, both the keypad operating and the card swiping is not available.
Detect the door status: when someone opens the door and comes in, the door is closed, the system will automatically detect the door status and lock the door even though it is still in delay period.(For ZONE 1 only)

NOTICE

The user code must be different from the administration code.
The code of ZONE 1 must be different from that of ZONE 2.

Group cards added in ZONE 1

Enter the setting mode:
Press the button * and 9 , the yellow LED indicator will be flashing, then press the button 0 and 1 , a sound "BI" sa reminder. Then input three-figure 000 to 999 data storage units for start added unit, and input 3 digits number that the whole cards account you want add in. For example:

1. Input 005 060--means the cards added in storage units from 005, and the whole cards added in are 60.
2. Input 060 150--means the cards added in storage units from 060, and the whole cards added in are 150.

delayed. If setting lock-time as 00 means: swipe card or input password once open the door, swipe card or input password again close the door.
Press the button # to quit the setting mode and standby.

Clean all user cards and codes, restores to factory defaults

Enter the setting mode:
Press the button * and 8 (mode indicator will flash yellow), follow the button 8 twice, (a continuous beep will be heard and mode indicator will turn yellow), it indicates all user cards and codes have been cleaned out successfully.
Press the button * and 8 (mode indicator will flash yellow), follow the button 9 twice, (a continuous beep will be heard and mode indicator will turn yellow), it indicates it restores to factory defaults.
Press the button # to quit the setting mode and standby.

If do operation in a wrong way, it will imply as BI.BI. sounds. The device would turn back without actions in 30s automatically accompany with BI. BI. sounds. If in the access mode as card and password entry in, just did one of actions(input password or swipe the card), it will turn back in 5s automatically accompany with BI.BI. sounds.

A. When ZONE 1 relay actived, door indicator will turn green.
B. When ZONE 2 relay actived, door indicator will turn red.

In case forget the admin code, power on first, then press the button # in 3s. A sound "BI" as reminder, means admin code default setting successfully.
Digit length is 2--default admin code is 12,
Digit length is 3--default admin code is 123,
Digit length is 4-default admin code is 1234,
Digit length is 5--default admin code is 12345,
Digit length is 6--default admin code is 123456(Maxmium is 6).

The pickproof alarm

The built-in buzzer will sent a continuous beeping if the photoresistor sensor is directly exposed into the light. The buzzer will off automatically in 60s, the light is no longer detected by enter the admin code.

After all, a sound "BI" sa reminder. Swipe the first added card or input the first added card serial number(8 digits), a sound "BI" as reminder, means added in successfully.
Press the button # to quit setting mode and standby.

Modify the user code of ZONE 1

Enter the setting mode:
Press the button * and 9 , the yellow LED indicator will be flashing, then press the button 0 and 2 , a sound "BI" as reminder. Then input three-figure 000 to 999 data storage units and input correlative passwords (The length of relative passwords should as same as admin code).
Press the button # to quit setting mode and standby.

Setting access control ID(for networked modes only)

Enter the setting mode:
Press the button * and 9 , the yellow LED indicator will be flashing, then press the button 0 and 3 , a sound "BI" as reminder. Then input 6 digits ID number, and a sound "BI" as reminder, means ID setting successfully.
Press the button # to quit setting mode and standby.