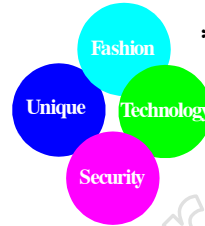
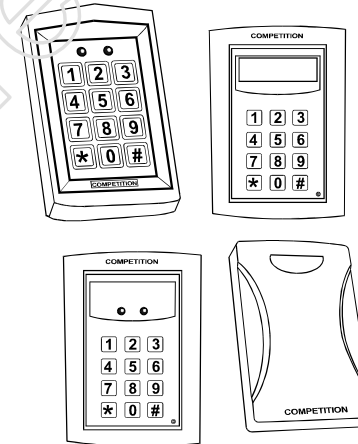


***Anti-vandal *metal surface *pickproof *waterproof**



***Mode: DH16A-09DL DH16A-10DT
DH16A-09DT DH16A-11DT**

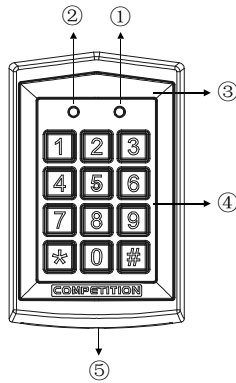


Access control instruction manual

We will remain the right of modification without prior information



front panel description



DH16A-10DT

NO.	Description
①	Mode indicator
②	Door indicator
③	Antenna
④	Matrix keypad
⑤	Case screw

Specifications/features

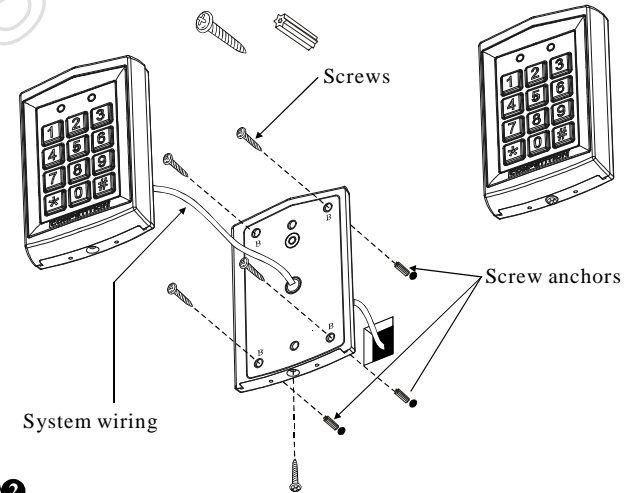
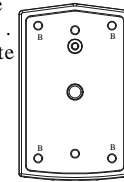
1. with internal EM reader
2. Frequency: 125KHZ
3. effective distance: 5 cm.
4. up to 1000 password & card holders.
5. card access, code access and combined access.
6. digital keypad operation.
7. built-in pickproof function.
8. watchdog timer, powerful reboot and self-recovery watchdog can connect with the external unlock button.
9. power consumption : DC 12-15V, Current: 150mA
10. unlock output delay time: 0-99s.
11. IP Rating: 65
12. dual relay outputs.
13. dimension: 76*120*22mm

①

installation

Before installing, 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 screwed it on using the spline tool.



②

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 code 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 ZONE2 could be programmed for door bell.
2. Default code is 1234.(memory address:1BA0,1BA1, 1BA2)
3. Input the default coed twice (1234+1234) to enter the setting mode, mode indicator will turn yellow.

A. 3 modes by allowing to open the doorlock for selectable

Enter the programming mode .

- 1.)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.
- 2.)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.
- 3.)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 the card and code access combined is available.
Press the button **#** to quit the setting mode .



3

B. Add the user card and code

Enter the setting mode(ZONE 1).
Press one number from 000 to 999,(mode indicator will flash yellow ,it indicates there is already the data existed if turned red. clean the data existed at this address by pressing the button ***** twice, the flashing green LED indicates that the user cars and code are allowed to add), swipe the user card(a long beep will be heard , it indicates adding success) and input the 5-Digit code XXXXX, (a long beep indicates code adding success)
Press the button **#** to quit, repeat the steps as above to add others.

C. Add the user card and code

Enter the setting mode(ZONE 2).
Press the button ***** and **4** ,(mode indicator will flash yellow ,press one number from 00 to 99,(mode indicator will flash yellow ,it indicates there is already the data existed if turned red.clean the data existed at this address by pressing the button ***** twice, the flashing green LED indicates that the user cars and code are allowed to add), swipe the user card or input the 5-Digit code XXXXX, (a long beep will be heard ,it indicates that adding success) press the button **#** to quit, repeat the steps as above to add others.

D. Set the unlocked 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. 00-99 mean the delay time i.e. 05 means the unlocking time is 5s delayed.
Press the button **#** twice to quit the setting mode.

4

E. Set the unlocked 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. 00-99 mean the delay time i.e. 05 means the unlocking time is 5s delayed.

Press the button **#** twice to quit the setting mode.

F. Clean all user cards and codes

Enter the setting mode.

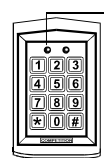
1. Press the button ***** and **8**, (mode indicator will flash yellow) follow the button **8** twice, (a continuously beep will be heard and mode indicator will turn yellow), it indicates all user card and code have been cleaned successfully.
2. Press the button ***** and **8**, (mode indicator will flash yellow) follow the button **9** twice, (a long beep will be heard and mode indicator will turn yellow), it indicates that the system has been restored to factory default.

Press the button **#** twice to quit the setting mode.

G. Modify administrator code

Enter the setting mode

Press the button ***** and **3**, (mode indicator will flash yellow) and input the new 5-digital code XXXXX, and repeat it once again. Press the button **#** twice to quit the setting mode.



Door indicator

The Relay 1 is activity, door indicator will turn green

The Relay 2 is activity, door indicator will turn red

5

H. Turn on/off the pickproof alarm

Enter the setting mode:

a.) Turn off the pickproof alarm:

Press the button ***** and **5**, (mode indicator will flash yellow) follow the **0** and **1**, (a long beep will be heard whilst the mode indicator will turn yellow) pickproof alarm is turned off.

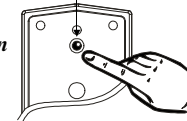
b.) Turn on the pickproof alarm:

Press the button ***** and **6**, (mode indicator will flash yellow) follow 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 built-in buzzer will sent a continuous buzz if the photoresistor sensor is directly exposed into the light. The Buzzer will turn off automatically in 60s, the light is no longer detected or enter the admin code.*

Photoresistor sensor



I. Turn on/off the Door Bell (memory address 1BAB)

Enter the setting mode:

a.) Turn off the door Bell:

Press the button ***** and **2**, (mode indicator will flash yellow) follow 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.

b.) Turn on the door Bell:

Press the button ***** and **2**, (mode indicator will flash yellow) follow the **0** and **2**, (a long beep will be heard whilst the mode indicator will turn yellow) the function of door bell is turned off.

Press the button **#** to quit.

- * *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 stand by mode, the relay contacts one time, the door bell ringing is triggered.*

6

J. Add the master card

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 is turned green, it indicates there is already data existed, press the button **[*]** twice to clean out the data, and then the indicator will flash green) swipe the master card (a long beep will be heard, it indicates that adding success) press the button **[#]** to quit.

*** Using the master card enter the setting mode:**

Swipe the master card, the indicator will flash yellow whilst a long beep will be heard, enter the setting mode.

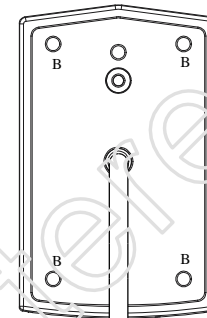
Swipe the master card again, the indicator will turn green whilst three times rapid beep will be heard, quit the setting mode.

NOTE:

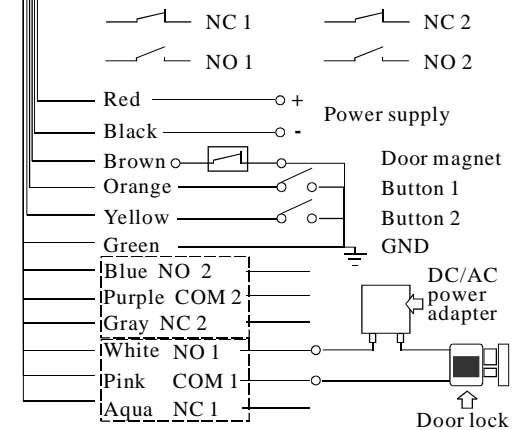
4. Hold pressing the button **[#]** whilst plug power in if the admin code is lost (a long beep will be heard, the code will be restore to the factory default 12345).
5. Two rapid beep indicates wrong input occurred. The system will automatically quit in 30 seconds of inactivity,
6. The user code must be different from the administration code.
The code of ZONE 1 be different from that of ZONE2
7. 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.
8. Detect the door status: when someone open the door and come in, the door is closed, the system will automatically detecte the door status and lock the door even though the it is still in delay period.

7

Wiring diagram



Red -power + DC12-15V
Black -power GND
Brown -door status detecting
Orange- unlocking button 1
Yellow- unlocking button 2
Green- GND
Blue- NO 2
Purple- COM 2
Gray- NC 2
White- NO 1
Pink- COM 1
Aqua- NC 1



8