

201HE/M Simple Access Controller

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Product Performance

✧ Operating Voltage:	DC9-12V
✧ Operating Current:	≤120mA
✧ Quiescent Current:	≤85mA
✧ Number of Users:	1000
✧ Using Distance:	≤150mm
✧ Operating Temperature:	-20℃~60℃
✧ Operating Humidity:	5%~98%
✧ Operating Mode:	Card; Card plus password; Password
✧ Dimension:	L109mm;W87mm;H 37mm

Installation Instructions

Unload Phillips screw fixing panel and back cover and take down back cover. Then install the back cover with attached plug and screw into the wall beside the entrance to be controlled. Do not mistake the top and the bottom of the cover.

Wiring Instructions

Note: It's necessary to make sure pole of power before using.

Connect wires in accordance with wiring marks on the circuit board (shown as the following figure)

6	5	4	3	2	1
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N.O COM N.C HANDLE GND PWR+

Notice: Make sure voltage (DC12V) and electrodes of the power before powering it on.

Please read the Operating Instructions carefully before using it.

6 Pin end connecting diagram

1	PWR+	RED	DC9V _i 12V
2	GND	BLACK	
3	HANDLE	YELLOW	MUNUAL BUTTON
4	OPEING RELAY N.C	WHITE	RELAY OUTPUT
5	OPEING RELAY COM	ORANGE	
6	OPENING RELAY N.O	PURPLE	

If connect reader outside, please connect the line according

to marker on the board (as follows)

4	3	2	1
---	---	---	---

WD1 WD0 GND PWR+

4 PIN ends wiring diagram:

1	PWR+	Red	DC9V---12V
2	GND	Black	
3	WD0	Yellow	Wi egand 26 input
4	WD 1	Whi te	

NOTE: PLS refer to the detailed the operation instruction before using.

Operating Instructions

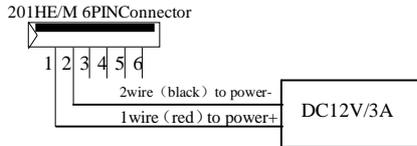
I. Initialization of the Access Controller

1. Power off, uninstall the device from the wall and release the anti-remove switch.
2. Power on: POWER (red) is on, and lights of OK (green) and MODE (orange) are out. A chirping can be heard at the same time.
3. Power off and install the controller.
4. Power on: Initialization is completed, buzzer will give a chirp.

Then the controller enters into operation.

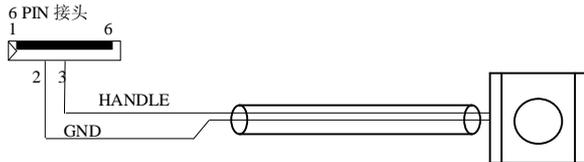
Note: Initialization will only change system password into defaulted 000000 and other data will not be changed or deleted.

II. 201HE/M POWER SUPPLYING



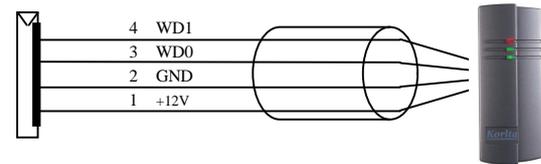
The internal parts of 201HE/M series access controller are working under power of +5V, external DC power requires DC9V_i DC12V. Switch power is applied in the controller, which allows maximum voltage of DC15V. Overvoltage may cause 201HE/M series to enter protection mode or damages. There are over-voltage, overheat and over-current protections in 201HE/M series.

错误! 未找到引用源。 . **Connecting the button of manual opening**



错误! 未找到引用源。 . **Connect the reader outside**

4 PIN connector



错误! 未找到引用源。 . **Choice Methods of Relay Output**

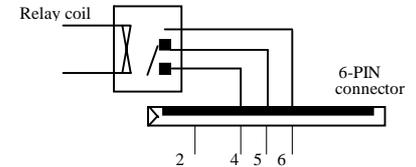
Relay:

Coil current: 25m A/5V

Contact resistance $\leq 1\Omega$

Max. load: DC35V/2A

AC75V/3A



Definitions of lead wires: 2: GND; 4: N.C.; 5 COM; 6 N.

Cautions:

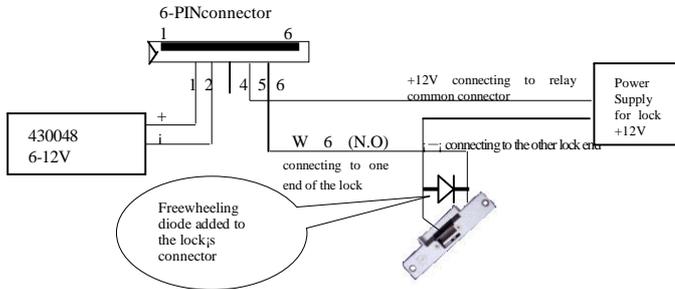
The rated driving voltage applied on the lock is not the same with that of the controller; a separate power working type must be adopted;

When choosing the power for driving the electric lock, actual power supply capacity and rated working voltage for the electric lock should be also taken into account;

The following table provides rated voltage and current for some common locks;

Electric lock	Rated voltage	Current Min.	Power supplied
Pulse lock (1)	12V	3.3A	42W
Pulse lock (2)	12V	1.1A	15W
Electric strike	12V	0.38--1A	6--15W
Electric lock for glass doors	12V	0.6 _i 1.2A	15W
Magnetic lock for glass doors	12V	0.6 _i 1.2A	15W

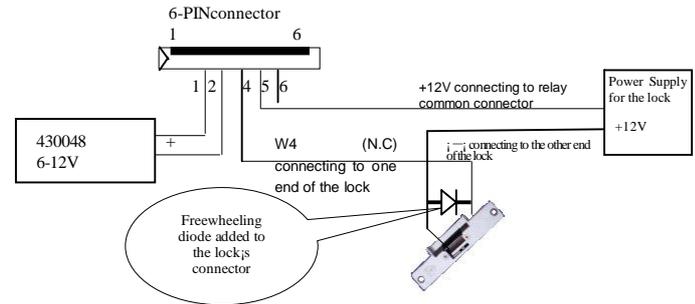
(1) Using separate power to drive an **always-close clock** (locking upon powering off)



Warning:

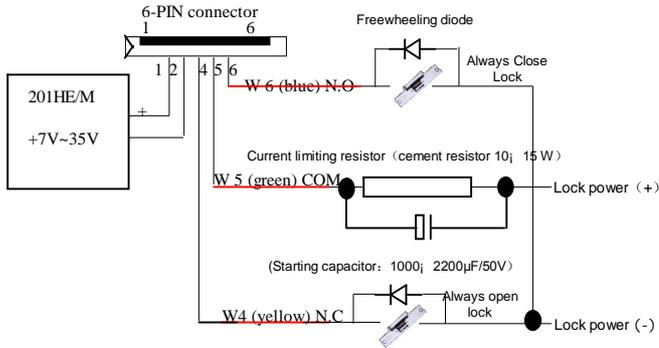
If an always-close lock is connected in the way that an always-open lock does, the electric lock may be damaged due to constant power supply to the electric lock coil.

(2) Using Separate Power to Drive an **Always-open Lock** (the lock is open when powered off)



Protection of Electromagnetic Lock

(1) In order to prevent the lock from overheating due to high voltage (if it is too low, the voltage the strength will not be enough for locking) over an extended period of time, a current limiting resistor should be series-connected on the power supply end of the lock and an additional starting capacitor should also be added.



A capacitor with low series resistance is required, for it can release peak value current required by starting. For example, if the lock is started to lock on in case of +12V, when the resistor is connected, favorable locking status can be maintained when the voltage is reduced to about +8V.

(2) Power supply time for the electric lock (especially the pulse lock) should be set properly. For example, as to pulse lock, the power supply time should be set within 0.1-0.5 second in order to prevent heating from the coil inside the lock.

错误！未找到引用源。 . **Programming of the Access Controller**

Press \downarrow ENT \downarrow and function keys to enter programming mode.

Press \downarrow ENT \downarrow , POWER light (red), OK light (green) and MODE light

(orange) are all lit.

Input six-digit system password and you will a chirp from the buzzer. Then POWER light (red), OK light (green) and MODE light (orange) all go out and the access controller enters system programming mode.

\downarrow 0 \downarrow : for users with membership card + password

Press \downarrow 0 \downarrow and you will see POWER light (red), OK light (green) and MODE light (orange) all go out.

Input three-digit user name. If OK (light) is on, then your inputting is valid.

Input six-digit password and you will hear a chirp from the buzzer. When OK light (green) is flashing, swipe the card to be registered. If the buzzer will give a chirp, OK light (green) is out, MODE light (orange) and POWER light (red) are on. Then your login is completed successfully and the controller returns to setting state.

Note: Card + password refers to that users have to open the door with card and correct password.

\downarrow 1 \downarrow : change system password

Press \downarrow 1 \downarrow , then MODE (orange) is on and POWER (red) and OK (green) are out.

The user inputs six-digit password (e.g. 123456), after the password being input, if the buzzer gives a chirp and OK (green) flashes once

and then goes out, and also POWER (red) and MODE (orange) are on, then the change of the password is completed successfully. Then the controller will return to setting state.

Note: Please take good care of the password and you will need it when you enter system programming mode next time. If you forget your password, please carry out process of initialization.

¡2¡: for users with membership card or password

Press ¡2¡ and you will see MODE (orange) is on and POWER (red) and OK (green) are out.

Input three-digit user name. If OK (green) is on, input name is valid. Swipe your card or input your six-digit password. After the password being input, if the buzzer gives a long chirp, OK (green) flashes once and then goes out, and POWER (red) and MODE (orange) are on, then the login is completed successfully. Then the controller will return to setting state.

Note: Card or password means that the user can open the door with card or password.

¡3¡: Delete single user

Press ¡3¡ and you will see MODE (orange) is on and POWER (red) and OK (green) are out.

Swipe the card to be deleted or input the three-digit user name to be deleted, if the buzzer gives a chirp, OK (green) flashes once and

then goes out, and POWER (red) and MODE (orange) are on, the deletion is completed successfully. Then the controller will return to setting state.

¡4¡: Delete all users

Press ¡4¡ and you will see POWER (red) is out and MODE (orange) is on. Press ¡4¡ again, if MODE (orange) and POWER (red) are on, then all users are deleted successfully. And the controller returns to setting state.

¡5¡: Set opening time

Press ¡5¡, MODE (orange) is on, POWER (red) and OK (green) are out.

Input three-digit time value (below 255). If the buzzer gives a chirp and MODE (orange) and POWER (red) are on, then opening time is set successfully. Then controller returns to setting state. Defaulted opening time is 005, namely 0.5 second.

For example, 123 equates with 12.3S.

012 equates with 1.2S.

¡6¡: Change user password

Press ¡6¡, MODE (orange) is on, POWER (red) and OK (green) are out.

Input user name and the buzzer will give a chirp. Input new password, if the buzzer gives a chirp, MODE (orange) and POWER

(red) are on, and OK (green) is out, then change of user password is completed successfully. The controller returns to setting state.

¡ESCj: Exit from programming mode

You can press ¡ESCj to exit programming mode at any time. The buzzer gives a chirp, MODE (orange) and POWER (red) are on, and OK (green) is out, then the controller exits to normal operating mode from programming mode.

Note: When adding users, if the buzzer gives three short chirps, it means that the user has been registered before.

错误！未找到引用源。 . Operating of the Access Controller

After programming, the access controller will enter normal working mode. And then POWER (red) is on, MODE (orange) and OK (green) are out. As follows:

Put user card close to the controller or input six-digit user password, if the buzzer gives a chirp and OK (green) flashes, the door is opened successfully.

If the buzzer gives three short chirps, it means that the card or password is invalid. And the door will not be opened.

If a user uses card and password to open the door (set when registering), the user shall swipe the card correctly (if it is valid, the buzzer will give a chirp and OK light will flash to prompt the user to input the password; if it is invalid, the controller will exit and wait for

a new card) and then input corresponding password. If the password is valid, the buzzer will chirp and the door will be opened; if it is invalid, the controller will exit to wait for new inputting.

Note:

This Access Controller supports three types of opening mode, namely, card, password and card plus password.

When the user is inputting password, no card can be read by the controller at the same time.

Packaging List

201HE/M Access Controller	1
Instruction Manual	1
Fixing plugs and screws	1 pac
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6 PIN line	1