

# Operation instructions of entrance guard's controller

## I. Brief introduction of product

ED-001 Controller was designed specially for all kinds of electric-control locks and security control. It is one of the most advanced modernized entrance guard's systems. For selecting the newest central processing unit (CPU), all information can't be lost when the power supply is cut. Adopting the latest technology, powerful functions, it has induced card and three ways of opening the door: such as password to open the door, induced card adding with password to open the door, and card to open the door. It has safety measures: such as the monitor and alarm under the door state, anti-piracy alarm, deploy defense, safety mode, and induced card adding with password etc., which makes the user more safe and convenient. This product offers many kinds of entrance and exit management way with safety and automation, which is the ideal device for commercial institution, office building, factory and residential area etc.

## II. Technical parameter:

Working voltage: 12VDC

Load current: Electric lock output: 1A

Quiescent current: <math>\lt; 50\text{mA}</math>

Relative humidity: 10%-90%

Distance of card read: 5-15cm

compatible card

Alarm output: 50mA

Ambient temperature:  $-10^{\circ}\text{C}$ - $70^{\circ}\text{C}$

Memory capacity: 500 user's cards and passwords

Type of reading card: EM or HM

## III. Promoting of acousto-optical:

State	Red light	Green light	Buzzer
Normal state	Glitter one time per second		
Open the lock		Light	Tick with long sound
Input with pressing the key	Light		Tick with short sound
Enter the programming	Light	Glitter rapidly	Tick with long sound
Input the code of card	Glitter rapidly	Glitter rapidly	
Read the user's card		Glitter rapidly	Tick with short sound
Input the user's password	Glitter rapidly	Glitter rapidly	Tick with long sound
Alarm state	Glitter rapidly		Tick with short sound (in succession)
Read the invalid card	Light after glitter two times		Tick two times with short sound
Input the wrong password	Light after glitter two times		Tick two times with short sound
Deploy defense state	Glitter one time per second	Glitter one time per second	

## IV. Set up operation method

1. Initial password: the programming password of factory is 1111SS.

2. Reset the new password (not need under the programming state):

Input 4-figure password of opening the door | Read the user's card | Input 4-figure new password

- The green light will glitter with closing the bumper line at the same time, namely to use in success.
3. Enter the programming state:
 

Input the password of the code Press the " " key for three seconds Enter the programming state
  4. Function establishment (need to carry out under the programming state):
    - (1) Revise the programming password:
 

Press 1 New password Press the " " key to confirm The code of password is 5-10-figure number.
    - (2) Set up the worker's card and password:
 

Press 4 0 2 Input the code of card Read card Input the password of opening  
with 4-figure number Input the " " key to confirm

Note: the code of card is 001-500 three digits without repetition. Must input the code, otherwise you can't read the card. If you need increase in succession, read the second card and input 4-figure password of opening the door directly after finishing inputting 4-figure of opening the door. And the code of the card will increase automatically.
    - (3) Set up the worker's card:
 

Press 4 2 2 Input the code of card Read the card Input " " for confirmation

Note: the code of card is three digits from 001 to 500 without repetition, you must input the code, otherwise you can't read the card. If need increase in succession, read the card in succession, and the card number will increase automatically.
    - (4) Delete the individual worker's card and password of opening the door (there are two methods):
      - a. Press 3 Input the code of card Delete the card and password at the same time.
      - b. Press 3 Read the card needing being deleted.
    - (5) Delete all worker's cards and the passwords of opening the door.
 

Delete with pressing + + + + but the code programming will not be deleted.
    - (6) Set up the time of opening the door:
 

Press 3 X X, XX is the figures from 00 to 99 with second unit. Factory establishment is 05, namely 5 seconds.
    - (7) Set up the mode of opening the door (there are three kinds of state).
      - a. Press 4 0 Read the effective card to open the door or input the correct password, then press the " " key to confirm the opening of door.
      - b. Press 4 1 Read the effective card and then input the correct password, press the " " key to confirm the opening of door.
      - c. Press 4 2 Read the effective card to open the door.
    - (8) Set up the state of door to monitor:
 

Press 7 0 Close this function; Press 7 1 to open the function.

The state of door to monitor needs cooperate with the magnetism switch, and there are two kinds of functions as following while opening this function:

      - a. If you forget to close the door while inputting the correct password to open the door or read the effective card to open the door, the buzzer will tick few times per 5 seconds to point out closing.
      - b. If the door is opened illegally, the alarm signal will start inputting at the same time, the buzzer will be rung the warning. The function establishment is closed while exporting from the factory.
    - (9) Deploy defense and remove defense mode:
 

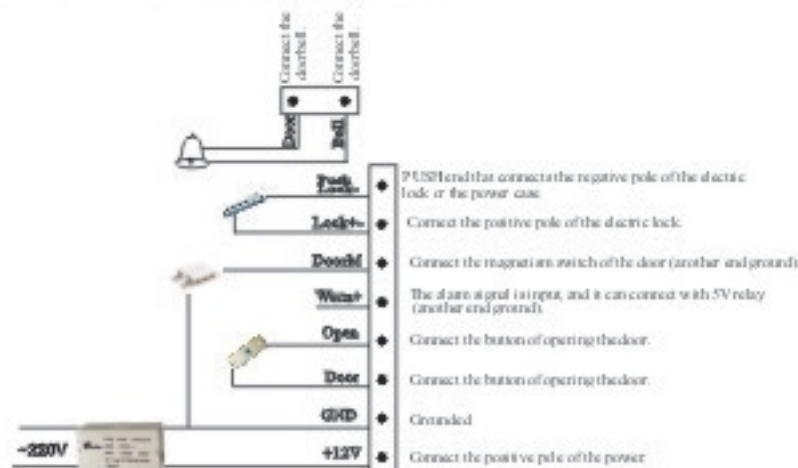
Press 8 1 to set up the deploy defense, all your cards and passwords is unable to open the door, and so does the inside switch, namely it has two kinds of entrance guard's functions.

Press 8 0 to resume the normal state while removing defense, which will resumes all your cards and passwords to open the door.
    - (10) Enter the mode of programming: Press 0

## V. The operation ways:

- (1) Under the normal working state, read the valid card or input the user's four-figure password, and then input the " " key to confirm opening the door.
- (2) If set up the card adding with password to open the door, you should input the correct password after reading the card in 10 seconds, and then input the " " key to confirm opening the door.
- (3) If set up the pure card to open the door, you only need read a valid card to open the door.
- (4) If you forgetting the pre passing password, you only need cut off power and input the "RESET" key on the main board of the controller, and then put through power to resume the pre passing password of factory establishment and other data can't be revised.
- (5) The controller have safe mode, read the illegal card for eight times or input the wrong password for eight times which will start the alarm signal exporting in succession. If set up the card adding with password to open the door, input the wrong password for eight times in succession after reading the valid card, the alarm signal will output started by the system.
- (6) The user's password has superfunction of using password: A. To input the correct password after inputting the password of many random digits, which also can open the door. B. In addition to inputting the 110 before inputting the password, which will become the password signal, with which to open the door will start the alarm signal outputting.
- (7) Warning: as all alarms have the warning function with pre timing time, once it starts, the alarm will continue for 90 seconds.

## VI. The connection drawing of system:



- Note: 1. The jumper midpoint of J1 connects with NC is normal closed lock while the electric lock is being connected on the controller; The jumper midpoint of J1 connect with NO is normal opened lock.
2. The PUSH end of the controller connects with the PUSH end of power while the electric lock is being connected on the power what the controller outputs is switch signal at this moment the jumper midpoint of J1 connects with NC is normal closed signal and the jumper midpoint of J1 connect with NO is normal opened signal.