

Interface and dial code

Because the selection of single door, double door, turnstile and other models has changed, please be familiar with the following controller interface comparison table before wiring operation to ensure that there is no wrong connection. The dialer is on by default and on by downward to realize corresponding functions.

Interface	Single door controller	Double door controller	Turnstile controller
Reader 1	In reader	Door 1 in reader	In turnstile reader
Reader 2	Out reader	Door 2 in reader	Out turnstile reader
INPUT 1	Exit button	Door 1 exit button	In turnstile exit button
INPUT 2	Short circuit no opening door	Door 2 exit button	Out turnstile exit button
INPUT 3	Door sensor input	Door 1 door sensor input	In turnstile exit input
INPUT 4	Alarm input	Door 2 door sensor input	Out turnstile alarm input
INPUT 5	Fire alarm input	Fire alarm input	Fire alarm input
OUT 1	lock control output	Door 1 lock control output	In turnstile control output
OUT 2	Auxiliary control output	Door 2 lock control output	Out turnstile control output
OUT 3	Fire alarm alarm output	Fire alarm alarm output	Fire alarm output
12V	12V power supply input	12V power supply input	12V power supply input
RJ 45	Communication network port	Communication network port	Communication network port
Dial code 1	Single door(on by default)	To double door(Dial down on)	To double door(Dial on)
Dial code 2	Door normally open	Door normally open	Turnstile normally open
Dial code 3	Swipe any card to open door	Swipe any card to open door	Swipe any card to open turnstile



With sharp hard object inserted into the reset hole, gently press the RESET button for 8 seconds, heard two buzzer, release the reset button, power up the device again.



**TCP/IP communication network**  
Cable shall not exceed 100 meters, if the length exceeds 100 meters, it need to add switch or optical fiber shall be used for communication.

Electronic bolt lock Magnetic lock

The connection method of off power open lock.



Electric lock, NO typed lock

The connection method of on power open lock: please connect the positive terminal of power supply to NO terminal. Please set the opening time to 1 second.



BUZZ LED alarm

Working voltage 12V



220V input



The power supply

It is 12V DC power supply, and the current of one controller is generally about 300mA. If the same supply is used with the electric lock, please select the power supply with enough power.



Single door, double door, intelligent turnstile access control

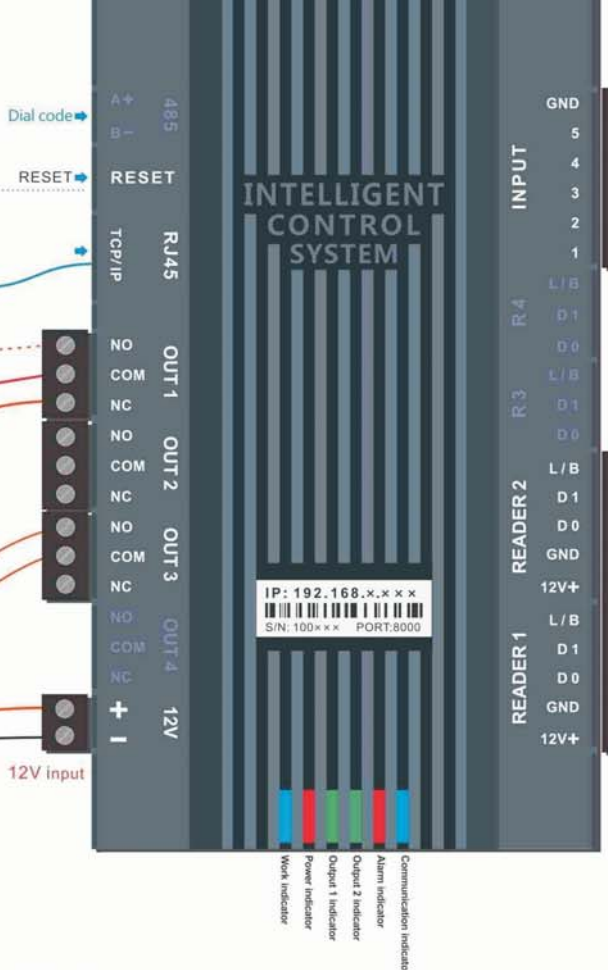
Default to single door, dial 1 down to on to double door. Refer to the interface table on the left and the description at the bottom of page 5 for the function of turnstile.

Hardware instructions

1.1 version

User: 30,000 Event: 50,000 Alarm event: 60,000

Device size: 147\*105\*31MM, Main board hole position: 129\*69MM

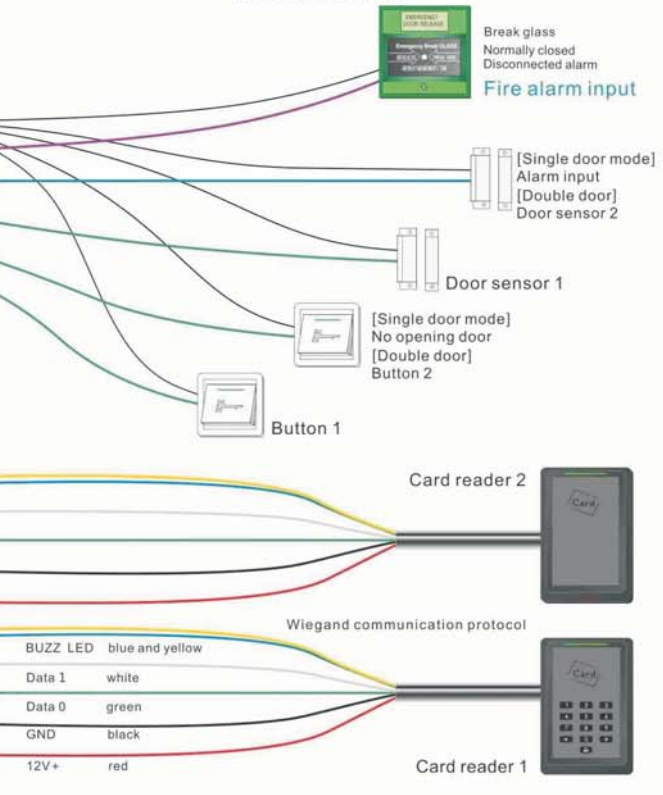


**IP address** IP on the label on the controller is the default IP address. After the controller hardware is reset, IP will become the default IP address.  
**Log in to the web interface:** (the computer and the controller IP must be in the same network segment) open Google browser, enter the default IP of the controller in the URL box, and then enter the default User name: admin Password: 888888 in the login box that appears.  
**Modify IP address:** after successful login, modify the IP address and gateway in the network setting interface (if not necessary, other parameters do not need to be modified), save, restart the controller, and complete the IP address modification.



INPUT signal input interface

**GND** It is a common end shared by all input signals. 1, 2, 3, 4 and 5 are combined with GND respectively, and all are dry contact input interfaces.  
**Button** Two lines butt, press the exit button, equivalent to two lines short circuit, give a closed signal to the control board, the controller output short circuit action.  
**Door sensor** It is not the door lock, it is the signal switch used to induction open switch state, after connected the door sensor, the door switch state can be seen in the software; illegal door opening, door overtime alarm and other functions should be connected to the door sensor to realize.  
**Fire alarm** The fire alarm input is a closed signal normally. When the fire alarm occurs, the input disconnects the signal to the controller, and all OUT interfaces of the controller generate output action and transmit fire alarm record to the software.



**Note:** Before wiring, please carefully check the wiring mark posted on the card reader to confirm the corresponding color of each line (different card reader wires have different colors). Wrong connection or reverse connection may cause damage to the controller and card reader.

The card reader interface

It is the standard Wiegand communication protocol, there are 4 sets interfaces, R3 and R4 are standby interfaces, standard device is not enabled.  
**Single-door controller:** Reader 1 is connected to the entry card Reader, and Reader 2 is connected to the exit card Reader.  
**Double-door controller:** Reader 1 is connected to the first door entry card Reader, and Reader 2 is connected to the second door entry card Reader.  
Each set of card reader interface has five terminals: 12V+ (positive electrode of power supply), GND (negative electrode of power supply), Data0 (Data0), Data1 (Data1), LED/BUZZ (prompt sound and light feedback), which are respectively connected with the card reader extension cord.

How to use software quickly

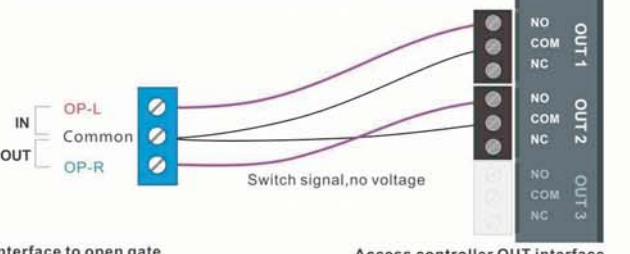
**Purpose:** Connect TCP/IP access controller, add users and assign authority to the users to open all doors in 24 hours.  
**Step:** 1. Add controller 2. Edit parameter 3. Update parameter 4. Add users 5. Download card data

- 1. Add controller**  
**Operation:** Open software---enter "Device" interface---choose TCP/IP---right click---add controller to open dialog---input controller name, serial no., model no., IP address(no need change other default parameters, we can see IP and SN on controller's sticker)---click "OK"  
**Explain:** If connection OK, the controller and door icon will become coloured. If failure, they will show gray color.  
**Note:** If single door, choose "1 door" on dialog. If we want to enable 2 door function, firstly pull the dial switch down---choose "2 door" on dialog when adding controller.
- 2. Edit door parameters**  
**Hint:** Default door opening time is 5 seconds, if no need change, skip this step.  
**Operation:** Choose the door icon to be set---double click to open door parameter dialog---input parameter---click "OK".  
**Name:** Input department or company door's name like company entrance or accounting office.  
**Door opening time:** Controller relay open or close time, Relay open or close time to control lock power's time (Unit: second).  
**Explain:** Other parameter, if no need confirm, no need set and keep as default.  
**Note:** If like electric lock or turnstile gate, we must set door open time as 1 second.
- 3. Update parameters**  
**Explain:** Update the above parameters into access controller.  
**Operate:** Right click on controller icon---update parameters.
- 4. Card holder**  
**Explain:** We can add, edit, inquiry, delete, give authority, issue card... for the user.  
**Operate:** Enter into "card holder" interface---right click---"new"---input necessary user info---click "OK"  
**Note:** Must input unique user ID by Character+Number. Card no. can be issued by card issuer or input card no. Manually. If issuing card on wiegand reader, we need choose relevant door on issuer. We can input other information as per demand.
- 5. Download card data**  
**Explain:** After adding new user or authority modification, download card data and authority into controller.  
**Operate:** under "card holder" interface---choose card holder (radio, multiple, check all)---right click---download card data to port.

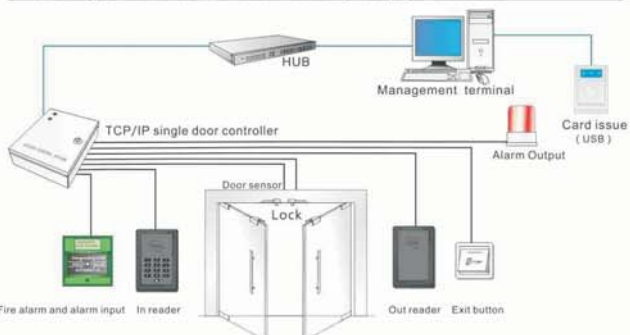
After finishing the above steps, we can swipe card to make testing.

Operation instructions for turnstile/flap gate controller

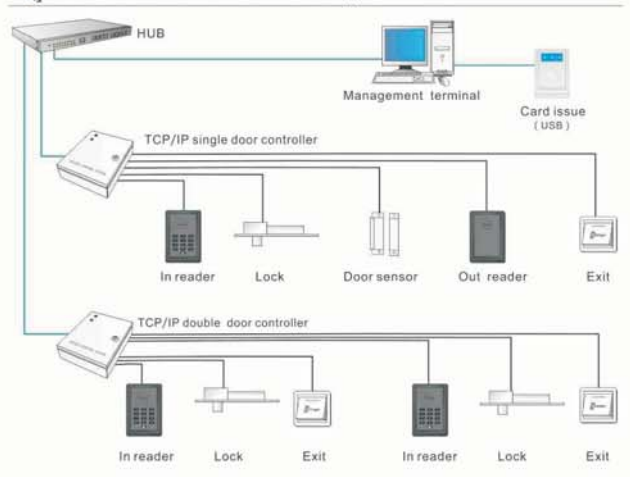
1. Pull dial switch to enable double door mode
2. Enter into web interface---choose second reader as output on parameter interface.
3. Choose 2 door mode when adding new device.
4. Set door open time as "1" second on door 1 and door 2 parameters.
5. Connect controller to turnstile/flap gate as per below wiring diagram.



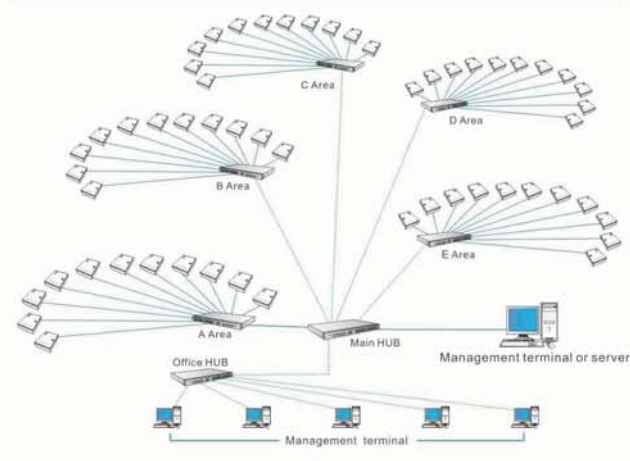
Single door controller multiple applications



1/2 door controller mixed applications



Access controller networking application



Single door double door transfer

Door normally open

Swiping card that is open

Alarm input

Fire alarm linkage

NO pass

SQL 2000

MAP

Web

One click install

Map

Built-in webpage management

Swiping card count

Controller search

Camera captures

Open and close the door on time

Password open the door

Single card open door

Card or password to open door

Card + password to open door

Timing alarm

Door open overtime alarm

Illegal open alarm

Invalid card alarm

Anti-passback

Turnstile control

Online patrol