

4 Keys



- According to the width of two holes on the backside of housing to nail.
- Screw the mounting nails.
- Screws on the wall, and then, hang Controller on the wall.

Wire Application	Pin	Color	Description
Buzzer	1	Gray	Buzzer Output
LED	2	Brown	LED Output
Wiegand	3	Blue	WG DAT: 1 Input ABA Clock Input
	4	Green	WG DAT: 0 Input ABA Data Input
Power	5	Black	GND
	6	Red	12V

TCP/IP Module Configuration

A. 2 PIN Dip-Switch setting



Dip-Switch	Description for ON
SW_1	DHCP Function TCP/IP module supports the auto-configuration of IP, gateway Address and subnet mask; however, must be sure the DHCP server is available.
SW_2	It will send the signal of IP address at per second.

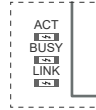
Note: After finished setting up parameter, switch DIP SW_1 and SW_2 to "OFF" position.

B. IP Address Reset



- Press IP reset button more than 5 seconds, and then TCP/IP module will restore to factory default value as follows.
Factory Default: <http://192.168.1.127>

C. Description for LED



LED name	Color	Description
LINK	Yellow	Media is connected.
	Off	Media is disconnected.
ACT	Green	10/100M base T Ethernet is connected.
	Off	Ethernet cable is disconnected or has a short.
BUSY	Red	Reset the IP address.
	Off	No Action.

Operation

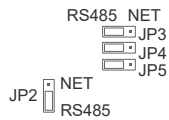
A. TCP/IP Mode

• Hardware

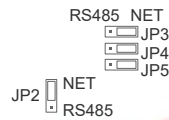
Before use the Ethernet Mode, please note that JP2 ~ JP5 is transferred to the NET position.



RS-485 Mode



Ethernet Mode



• Software

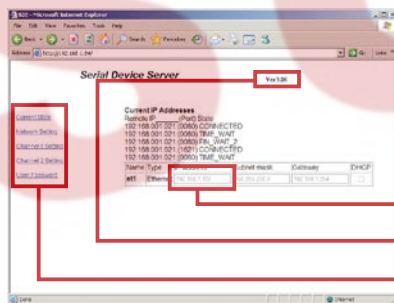
Connect the device to a computer, Then turn on your Web Browser and type "<http://192.168.1.127>" on IP address to start factory default webbrowser.



Factory Default

<http://192.168.1.127> is the factory default, if the IP address has been changed, the new IP address may be entered.

When you type the IP address, you will see the [Current State] page.



Current IP address

The version of ISP Firmware

Main Menu

Login:

Type "User name" & "Password" on the pop up login window.

Factory Default :
User name: admin
Password:(NO need to type)



Main Menu:

Current State: Connected to the controller displays the current status.

Current IP Addresses					
Remote IP	(Port)	State			
192.168.0.01.021	(0080)	CONNECTED			
192.168.0.01.021	(0080)	TIME_WAIT			
192.168.0.01.021	(0080)	FIN_WAIT_2			
192.168.0.01.021	(1621)	CONNECTED			
192.168.0.01.021	(0080)	TIME_WAIT			
Name	Type	IP address	Subnet mask	Gateway	DHCP
et1	Ethernet	192.168.1.127	255.255.255.0	192.168.1.254	<input type="checkbox"/>

Network Setting: Want to set up new IP address, can click into.

Network Setting

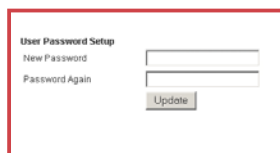
After you have changed the IP address, the device will **restart** (hardware reset).
You need to change the **host IP** with new IP Address in Internet Browser to **re-connect** the target.

Item	Setting
Device Name	SZE-Device
LAN IP Address	192.168.1.84
LAN Net Mask	255.255.255.0
Default Gateway	192.168.1.254
Primary DNS Server	168.95.1
Secondary DNS Server	168.95.192.1
MAC Address	00-13-57-FF-FF-F0
DHCP Client	<input type="checkbox"/>

a. Type the new IP address

b. Click it to update

User Password: Want to change new Account & Password, can click into.



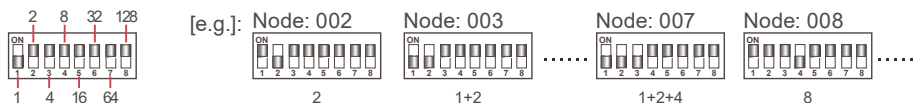
Type the new User Name & Password.

B. Node ID setting

The hardware setup is complete, the software can be set.

• Hardware

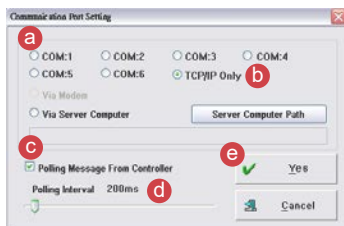
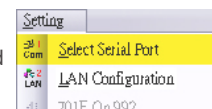
Power Off Take off the battery connector from [BAT+] socket Set up node number by 8 dip-switch Plug in battery connector
Re-apply the power



• Software

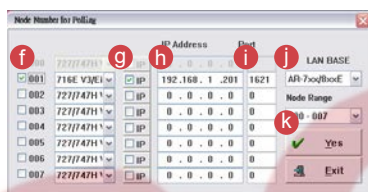
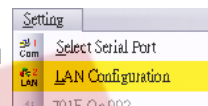
1. Open the "701 Server" Software
Communication Port Setting

There are two ways to open the Communication Port setting window:



- By the computer Detection results to select the port. (Use the RS-485)
- Select [TCP/IP Only]. (Use the Ethernet)
- Selection the options: Polling Message From Controller.
- Polling Interval: 200ms, PC every 200ms inquiries once access controller's messages.
- Press YES

2. After COM Port setting, there are two ways to open the Node Number for Polling window:



- Selection node ID (for example:001) and access controller
- If use the Ethernet mode, please check the "IP"; if use the RS-485 mode don't need to check.
- If use the Ethernet mode, input IP in "IP Address" field. (Default value: 192.168.1.127)
- Input 1621 in "Port" field. (Default value: 1621; these Port number is SOYAL designed for connection to the network.)
- Selection LAN BASE.
- Press YES

3. Open Controller On/Off Line window to check the device connection status:



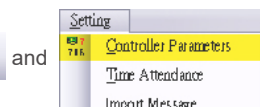
- Well: controller successfully connected to PC.
- Not connected well: recommends the following checks.

4. Download real time clock to AR-716E by clicking.



5. Setting up AR-716E parameters:

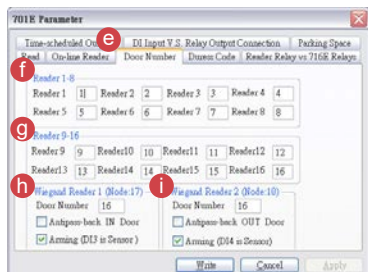
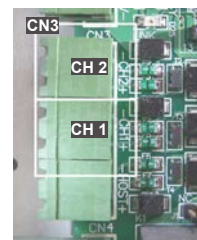
There are two ways to open the 701E Parameter window:



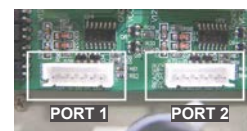
- There is filled in AR-716E node ID to get in 716E parameter for others setting.



- Setting up "On-line Reader" of readers
- AR-716E firmware version
- Current readers connected with AR-716E. Node ID of reader must be ticked, or it will show disconnected.



- Setting up "Door Number" of readers
 - The RS-485 Access Controllers connector to the "Channel 1" of the [CN3]
 - The RS-485 Access Controllers connector to "Channel 2" of the [CN3]
 - The Access Reader connector to the [PORT 1]
 - The Access Reader connector to the [PORT 2]
- Setting up door number of readers Each door number should be unique.



C. Restoring Factory Settings

• EEPROM Restoring

Power Off Take off the battery connector from [BAT+] socket [J5] jumper shift to "Clear" position for **15** seconds Shift [J5] back to "RUN" position Plug in battery connector Re-apply the power Done

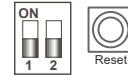
• IP Address Reset

Shift 2 dip-switch of TCP/IP module to "OFF" Press IP reset button more than 5 seconds TCP/IP module will restore to factory default value as follows

• Factory default value of IP Address

IP Address: 192.168.1.127
Gateway IP: 192.168.1.254
Subnet Mask: 255.255.255.0

Serial Port: 9600, N, 8, 1
TCP Port: 1621
Password: None



D. About LED (right of the PCB)

• POWER

When the controller is connected to the power, [POWER] will turn from green LED; if no light, mean the power supply have problems.

• RESET

After "EEPROM Restoring", [RESET] will flash the red LED and then clear the memory before the action started.

• CH2 RX & CH2 TX

[CH2 RX] receive Access Controllers Node 9 ~ Node 16 of the information on behalf of each flash a green LED to receive a data controller.

[CH2 TX] send data to the Access Controllers Node 9 ~ Node16, will flash red LED.

• CH1 RX & CH1 TX

[CH1 RX] receive Access Controllers Node 1 ~ Node 8 of the information on behalf of each flash a green LED to receive a data controller.

[CH1 TX] send data to the Access Controllers Node 1 ~ Node8, will flash red LED.

[e.g.] How to find the external Access Controllers have problem, from the LED.

If "Channel 1" external 6 Access Controllers, under normal circumstances [CH1 RX] will always be in twinkle.

LED flash frequency: twinkle, twinkle, twinkle, twinkle, twinkle, twinkle.....

If LED flash frequency become: twinkle, no, twinkle, no, twinkle, twinkle.....

It means the Node 2 and Node 4 have problem.

Because the default value [Node 1] and [Node 9] are checked, so [CH1 TX] and [CH2 TX] will continue to flash, when there are not external the Access Controller.

• HOST RX & HOST TX

[HOST RX] sent by the host PC to receive incoming data, the connection has been blinking green LED.

[HOST TX] to send data to PC host, the connection will remain after the red LED flashes.

• BUSY

When the red LED is lit, the memory is running clear and restores the factory default action.

If you do not perform "EEPROM Restoring", but the [RESET] and [BUSY] has been lit red, indicating a problem with PCB should be excluded.

E. About LED (lift of the PCB)

• ACT

When the Ethernet mode is successful, [ACT] will be the green LED.

• BUSY

After "IP Address Reset", [BUSY] will be the red LED, and restore to factory default value.

• LINK

After Ethernet connect to [CN2], [LINK] will be the yellow LED.

If [LINK] lit, but the [ACT] did not light up, indicating a problem with the Ethernet connection to be excluded.

• D9~D12

Representative [CN5] DI1 ~ DI4 on the output state; if "DI1" output signal, [D9] will light green LED.

