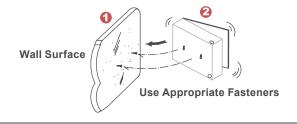


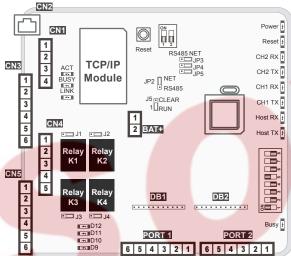
Installation



- 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.







Note:

- Optional for TCP/IP Module.
- External battery for BAT position.
- J1~J4: Set N.O. or N.C. relay output (default value is N.O.).
- J5: EEPROM Restoring.
- JP2~JP5: Select the interface is the Ethernet mode or the RS-485 mode.
- DB1&DB2: Extension Relay Board.

CN1	CN1
-----	-----

Wire Application	Pin	Description
Power	1	Vin+
	2	Vin-
Battery Power	3	BV+
	4	BV-

CN2 (Only for AR-716Ei)

Wire Application	
Host Interface for Ethernet	

CN3

Wire Application	Pin	Description
Channel 2	1	B-
(RS-485 input)	2	A+
Channel 1	3	B-
(RS-485 input)	4	A+
Host Interface for	5	B-
(RS-485 output)	6	A+

CN4

Wire Application	Pin	Description
Relay Output	1	K1
	2	K2
	3	K3
	4	K4
	5	COM

CN5

Wire Application	Pin	Description
Digital Input	1	COM
	2	DI.4
	3	DI.3
	4	DI.2
	5	DI.1
	6	12\/

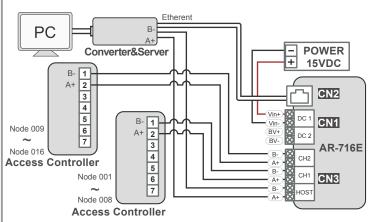
BAT (in the case)

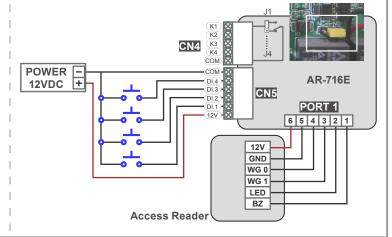
Wire Application	Pin	Description
Memory power	1	Vin+
	2	Vin-

PORT 1 & PORT 2

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

Wiring Diagram





C. Description for LED

LED name

LINK

ACT

BUSY

Color

Yellow Off

Green

Off

Red

Off

Description

No Action.

Media is connected.

Media is disconnected.

Reset the IP address

10/100M base T Ethernet is connected.

Ethernet cable is disconnected or has a short.

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

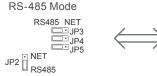
Operation

A. TCP/IP Mode

Hardware

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

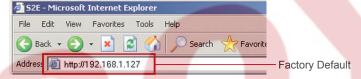






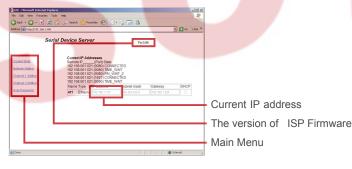
Software

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.



** 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.



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.



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

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



Type the new User Name & Password.

	the IP address, the device the host IP with new IP Addres		urt (hardware reset). met Browser to re-connect the ta
Item		Se	tting
Device Name	S2E-Device		
LAN IP Address	192.168.1.84		a. Type the ne
LAN Net Mask	255.255.255.0		IP address
Default Gateway	192.168.1.254		ii dadicoo

168.95.1.1

Primary DNS Serve

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







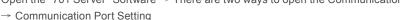






Software

1. Open the "701 Server" Software → There are two ways to open the Communication Port setting window:





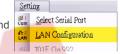


→ Node Number for Polling

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

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







- f. Selection node ID (for example:001) and access controller
- g. If use the Ethernet mode, please check the "IP"; if use the RS-485 mode don't need to check.
- h. If use the Ethernet mode, input IP in "IP Address" field. (Default value: 192.168.1.127)
- i. Input 1621 in "Port" field.

(Default value: 1621; these Port number is SOYAL designed for connection to the network.)

- j. Selection LAN BASE.
- k. 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:







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





<u>W</u>rite <u>Cancel</u>

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



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



Multi-Door Networking Controller



V110113

C. Restoring Factory Settings

EEPROM Restoring

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

IP Address Reset

Shift 2 dip-switch of TCP/IP module to "OFF" \rightarrow Press IP reset button more than 5 seconds \rightarrow 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

BAT+

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,

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.

