AW-FP200
Addressable Fire Alarm System
Installation Guide

ASENWARE LTD

Content

01

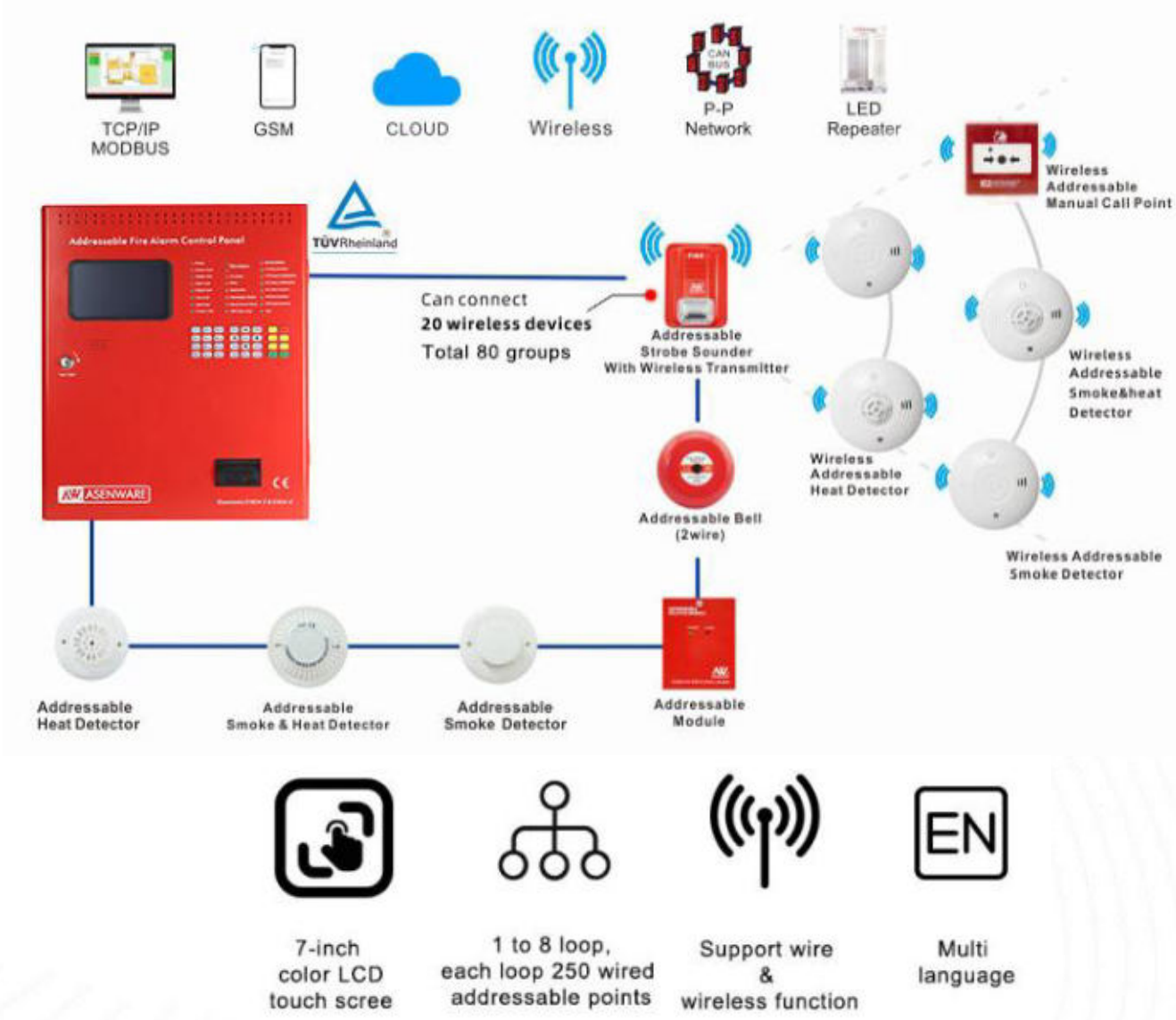
PART ONE

System Introduction

System Introduction

Feature

- 【**Panel to panel netwrok**】 Every panel can reset, silence, and evacuate other connected panels. supprt to connect with AW-FP128 & AW-FP100 too
- 【**Wireless**】 Each loops support 10 wireless group, maximum can connect 1600 wireless devices
- 【**Multi language**】 Vietnamese, Spanish, Thailand Russian, French, Portuguese available
- 【**Loop power supply**】 The whole addressable loop is two wire only
- 【**Graphic monitor**】 available
- 【**GSM**】 4G 10 mobile phone numbers



System Introduction

AW-FP200 Addressable Fire Alarm Control Panel

AW-FP200 series addressable fire alarm control panel is designed with 7-inch LCD display touch screen with button operation, easy to operate, and nice human-computer interface.

This machine can be connected to 8 loops. Each loop can be connected to 250 devices, such as smoke detectors, temperature detectors, input/output modules, each loop can be connected to 10 groups of wireless loops, a group of wireless loops can be connected to 20 devices, such as smoke detector, temperature detector, input and output module, etc.

YOUTUBE operating videos:
How to Wire and Operate AW-FP200 Addressable Fire Alarm System
https://youtu.be/FN1eQO7BPmY

System Introduction

AW-FP200 Addressable Fire Alarm Control Panel

- 7-inch color LCD display, touch screen operation
- All addressable devices use a two-wire system
- A wired loop can connect 250 wired addressable devices, including 10 groups of wireless loops
- One set of wireless loops can connect to 20 devices
- Max 8 loop cards can be installed
- Up to 999 records of history can be saved (save when power off)
- Multiple access levels can be set
- It has a rechargeable backup battery
- Can simply judge the running status of the machine based on the LED lights
- Automatic search device
- Each of the 8 hosts CAN be controlled remotely
- USB software upper computer to check and set the device status and fire history records
- It can bind 10 mobile phone numbers to receive host alarm information (The GSM module must be added)

AW-D106A Wireless Strobe sounder

Operating Voltage	18~28V DC @Loop
Operating current	standby status ≤25mA, alarm status ≤100mA
Operating Frequency	433MHz
Alarm SPL	≥100dB@1m
Flash Period	1 Time/Sec
Protection class	IP30
Environmental	Temperature range: -10 to 50°C (14~122°F) Humidity: 5 to 95% RH, non-condensing
Materials and color	ABS red
Application	For indoor use only
Mating Host	Addressable fire alarm control panel
Encoding	Address from 1 to 250 optional
Size	154mm* 115mm* 50mm
Weight	188.5g (without package) 224.5g (with package)

AW-D603L Wireless smoke detector

Operating Voltage	3VDC (with battery CR17450 / CR17455)
Operating current	monitoring status≤8uA, alarm status≤120mA
Operating Frequency	433MHz (418MHz to 448MHz)
Smoke Alarm Sensitivity	0.18-0.3dBM
Wireless transmit power	+20dB
Alarm SPL	≥85dB /3m
Protection class	IP30
Indicator	Normal: blinking Alarm: lighting
Environmental	Temperature range: 0 to 40°C (32~104°F) Humidity: ≤93% RH, non-condensing
Materials and colors	ABS, white
Mating Host	AW-FP100 addressable fire alarm control panel
Encoding	Address from 1 to 250 optional
Size	105mm* 105mm* 41mm (with cover)
Weight	About 120g

AW-D604L Wireless heat detector

Operating Voltage	3VDC (with battery CR17450 / CR17455)
Operating current	monitoring status≤8uA, alarm status≤120mA
Operating Frequency	433MHz (418MHz to 448MHz)
Fix temperature Alarm	57°C (135°F) A2R
Rate of rise Alarm	≥10°C/2M A2R
Wireless transmit power	+20dB
Alarm level	≥85dB /3m
Protection class	IP30
Indicator	Normal: blinking Alarm: lighting
Environmental	Temperature range: 0 to 40°C (32~104°F) Humidity: ≤93% RH, non-condensing
Materials and colors	ABS, white
Mating Host	AW-FP100 addressable fire alarm control panel
Encoding	Address from 1 to 250 optional
Size	105mm* 105mm* 50.2mm (with cover)
Weight	About 120g

AW-D605L Wireless smoke and heat combined detector

Operating Voltage	3VDC (with battery CR17450 / CR17455)
Operating current	monitoring status≤8uA, alarm status≤120mA
Operating Frequency	433MHz (418MHz to 448MHz)
Smoke Alarm Sensitivity	0.18-0.3dBM
Fix temperature Alarm	57° C (135° F) A2R
Rate of rise Alarm	≥10°C/2M A2R
Wireless transmit power	+20dB
Alarm level	≥85dB /3m
Protection class	IP30
Indicator	Normal: blinking Alarm: lighting
Environmental	Temperature range: 0 to 40°C (32~104°F) Humidity: ≤93% RH, non-condensing
Materials and colors	ABS, white
Mating Host	AW-FP100 addressable fire alarm control panel
Encoding	Address from 1 to 250 optional
Size	105mm* 105mm* 50.2mm (with cover)
Weight	About 120g

AW-D101 Addressable smoke detector

Model	AW-D101
Operating voltage	18~28VDC @Loop
Operating current(@Loop 24VDC)	Monitoring status≤2.5mA, Alarm status≤3mA
Application	For indoor use only
Wiring	The promise of two bus system(Loop in, Loop out)
Smoke alarm sensitivity	0.18~0.3dB/m
Environmental	Temperature range: -10~50°C (14~122°F) Humidity: 5 to 95% RH, non-condensing
Materials and colors	ABS, White
Mating host	AW-FP100 series fire alarm control panel
Size	Φ 99.8mm* 48.2mm
Weight	About 85g

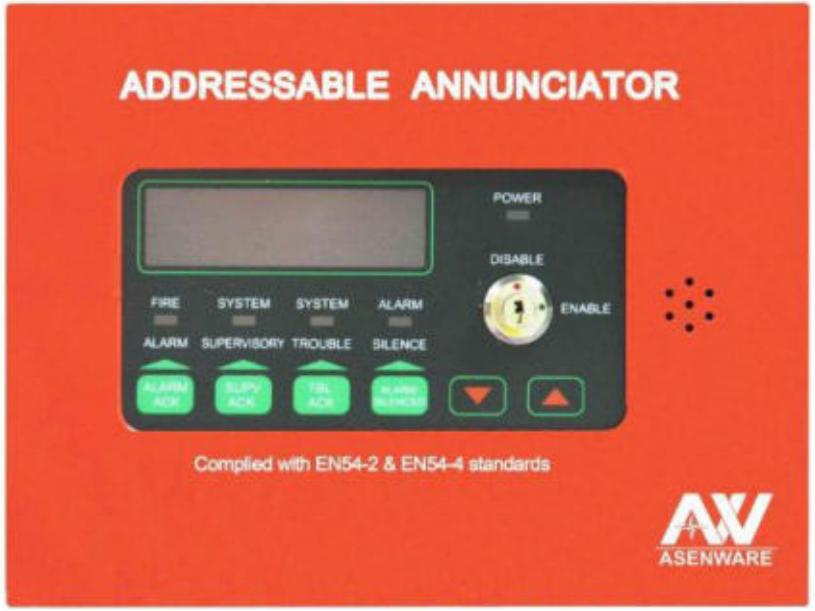
AW-D102 Addressable heat detector

Model	AW-D102
Operating voltage	18~28VDC @Loop
Operating current(@Loop 24VDC)	Monitoring status≤2.5mA, Alarm status≤3mA
Application	For indoor use only
Wiring	The promise of two bus system(Loop in, Loop out)
Fixed temperature alarm	57℃(135°F) A2R
Rate-of-rise alarm	7.1℃/5s A2R
Environmental	Temperature range: -10~50°C (14~122°F) Humidity: 5 to 95% RH, non-condensing
Materials and colors	ABS, White
Mating host	AW-FP100 series fire alarm control panel
Size	ϕ 100mm* 46.5mm
Weight	About 65g

AW-D138 Addressable smoke and heat detector

Model	AW-D138
Operating voltage	18~28VDC @Loop
Operating current(@Loop 24VDC)	Monitoring status≤1.5mA, Alarm status≤2.5mA @24VDC
Application	For indoor use only
Wiring	The promise of two bus system(Loop in, Loop out)
Smoke alarm sensitivity	0.18~0.3dB/m
Fixed temperature alarm	57℃(135°F) A2R
Environmental	Temperature range: -10~50°C (14~122°F) Humidity: 5 to 95% RH, non-condensing
Materials and colors	ABS, White
Mating host	AW-FP100 series addressable fire alarm control panel
Size	Φ 100mm* 55.7mm installed in base
Weight	About 120g

AW-D116 Addressable annunciator



Model	AW-D116
Operating voltage	18~28VDC @Loop
Operating current(@Loop 24VDC)	Monitoring status≤30mA
Wiring	The promise of two bus system(Loop in, Loop out)
Protection level	IP 30
Environmental	Temperature range: -10~ 50°C (14~122°F) Humidity: 5 to 95% RH, non-condensing
Mating host	AW-FP100 series fire alarm control panel
Size（L*W*H）	172mm* 128mm* 39mm

AW-D135A Addressable manual call point

Model	AW-D135A
Main Voltage	Loop 24V
Operating current	monitoring status≤2mA, alarm status≤15mA
Application	For indoor use only
Wiring	The promise of two bus system(Loop In+, Loop In -)
Protection class	IP30
Indicator	Red alarm indicator flashes when it is under normal condition, press the manual button lit work
Environmental	Class A temperature range: -5 to 40°C (23~104°F) Humidity: 5 to 95% RH, non-condensing
Materials and colors	ABS, red
Mating Panel	AW-FP100 addressable fire alarm control panel
Encoding	address from 1 to 250 optional
Size	99mm* 92mm* 66mm (with cover)
Weight	about 95g

AW-D109 Addressable fire alarm bell

Model	AW-D109
Operating voltage	18~28VDC @Loop
Operating current(@Loop 24VDC)	Standby status≤3mA, Alarm status≤50mA
Wiring	The promise of two bus system(Loop in, Loop out)
Alarm SPL	≥98 dB @1m
Environmental	Temperature range: -10~50°C (14~122°F) Humidity: 5 to 95% RH, non-condensing
Materials and colors	ABS(Base),Iron, Red
Mating host	AW-FP100 series fire alarm control panel
Size(L*W)	110mm* 110mm
Net weight	About 630g

02

PART TWO

Address Programming

Programming for strobe sounder

Connect the programmer connection cable to the connection port of the strobe sounder.

Choose "Group: 001", "Addr: 002", and "Panel: 001" on the programmer.

Group: 001
Addr: 002
Panel: 001

Programming for strobe sounder

Group: 001
Addr: 002
Panel: 001

Success

Press "Write" button to write the address, and the screen will show "Success".
Then pull out the programmer connection cable.

Programming for manual call point

Connect the programmer connection cable to the connection port of the manual call point.

Group:	001
Addr:	002
Panel:	001

"Group: 001", "Panel: 001" remain unchanged. The first device is wireless strobe sounder, and the address of the second device can be linked with the first device, so the address of the manual call point can still choose "Addr: 002".

Programming for manual call point

Group: 001
Addr: 002
Panel: 001

Success

Press "Write" button to write the address, and the screen will show "Success".
Then pull out the programmer connection cable.

Programming for smoke detector

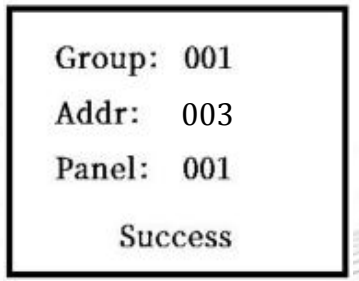
Press and hold the button of the smoke detector to turn it on, after hearing a "beep", press and hold the button again to enter the programming mode.

"Group: 001", "Panel: 001" remain unchanged, press "Inc" button to choose "Addr: 003".

Group: 001
Addr: 003
Panel: 001

Programming for smoke detector

Press "Write" to write the address, and the screen will show "Success".
Meanwhile, the smoke detector will beep for once.

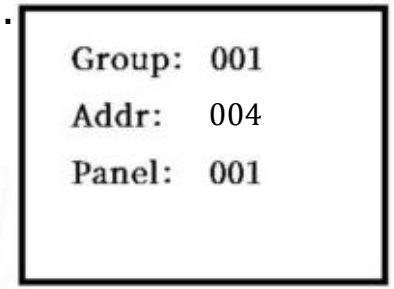


Press the button on the smoke detector to exit the programming mode.

Programming for heat detector

Press and hold the button of the heat detector to turn it on, after hearing a "beep", press and hold the button again to enter the programming mode.

"Group: 001", "Panel: 001" remain unchanged, press "Inc" button to choose "Addr: 004".



Programming for heat detector

Group: 001
Addr: 004
Panel: 001

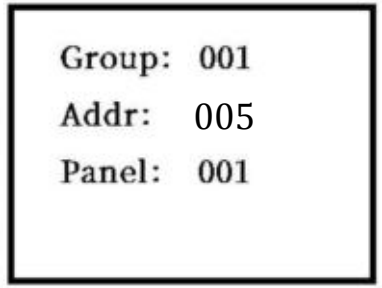
Success

Press "Write" to write the address, and the screen will show "Success". Press the button on the heat detector to exit the programming mode.

Programming for smoke and heat combined detector

Press and hold the button of the combined detector to turn it on, after hearing a "beep", press and hold the button again to enter the programming mode.

"Group: 001", "Panel: 001" remain unchanged, press "Inc" button to choose "Addr: 005".



Programming for smoke and heat combined detector

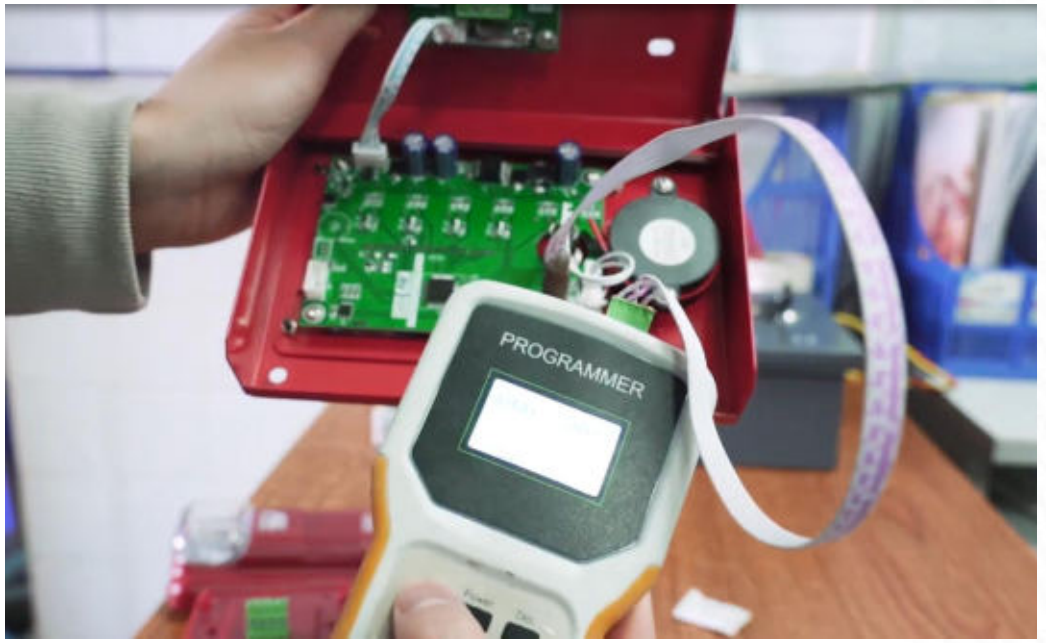
Group: 001
Addr: 005
Panel: 001

Success

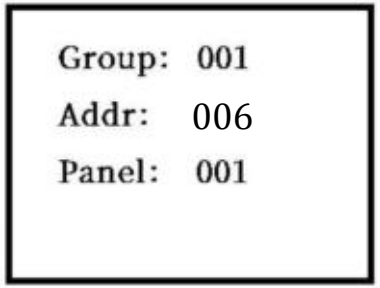
Press "Write" to write the address, and the screen will show "Success".
Press the button on the combined detector to exit the programming mode.

Programming for addressable annunciator for addressable system

Connect the programmer connection cable to the connection port of the addressable annunciator.



"Group: 001", "Panel: 001" remain unchanged, press "Inc" button to choose "Addr: 006".



Programming for addressable annunciator for addressable system

Group: 001
Addr: 006
Panel: 001

Success

Press "Write" to write the address, and the screen will show "Success".

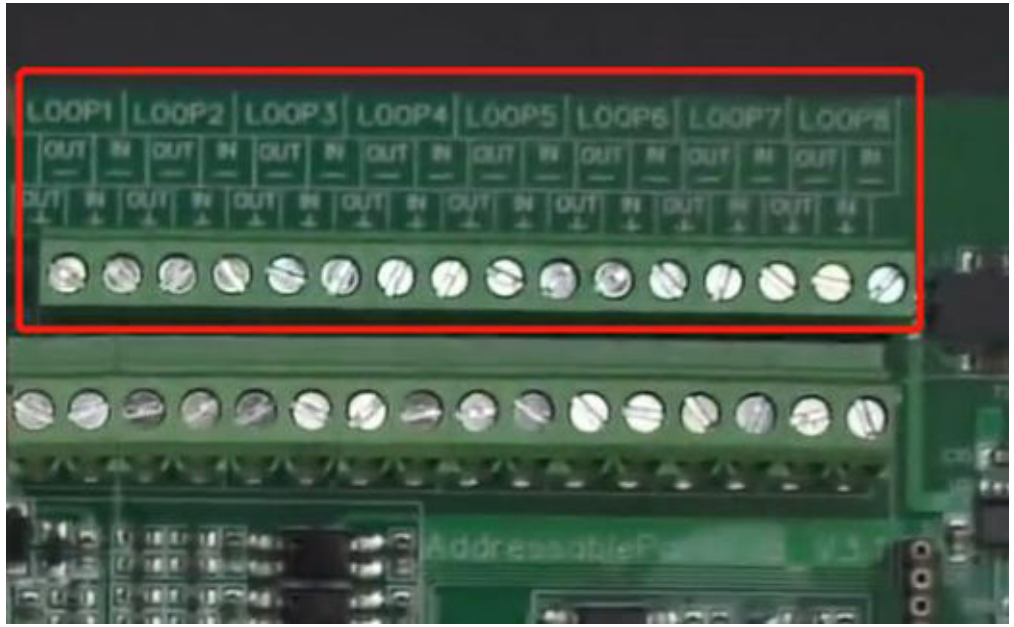
03

PART THREE

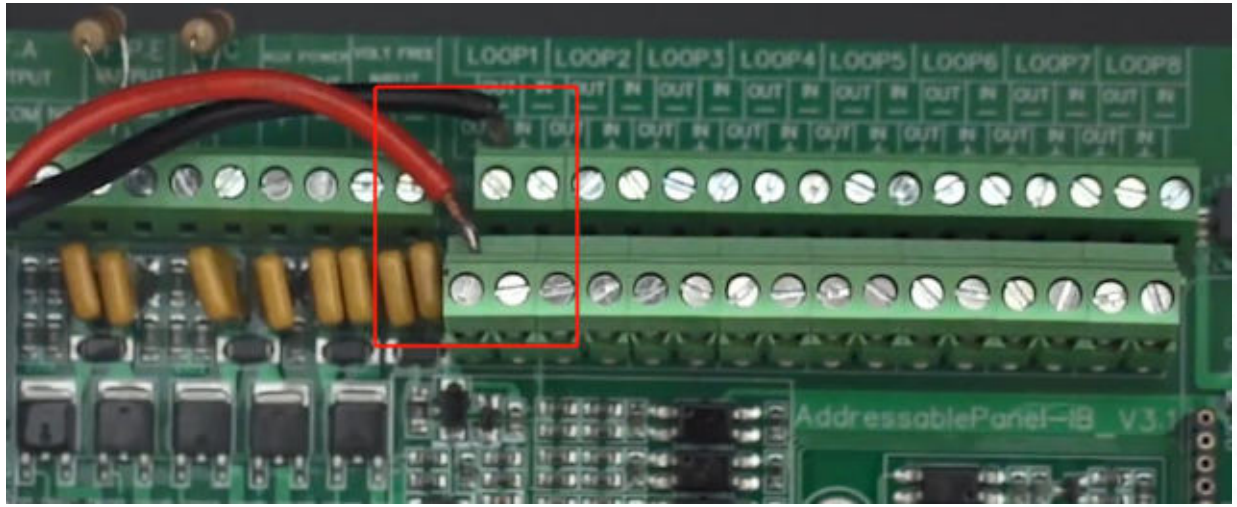
System Wiring

System Wiring

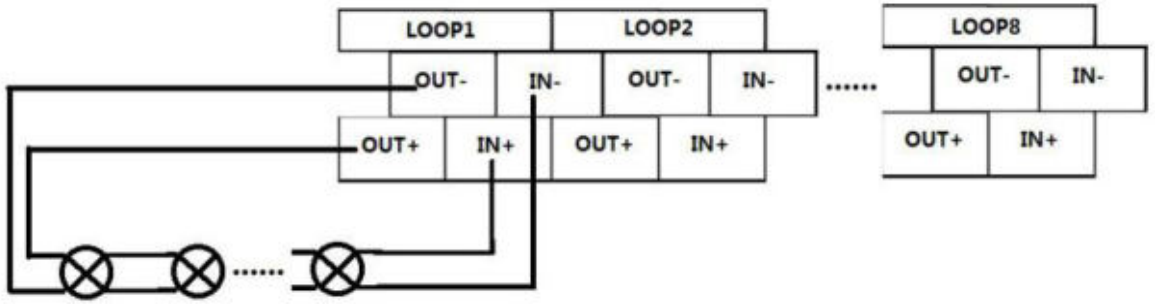
Panel wiring connection



There are the wiring ports of 8 loops, and they are marked from LOOP 1 to LOOP 8 respectively.

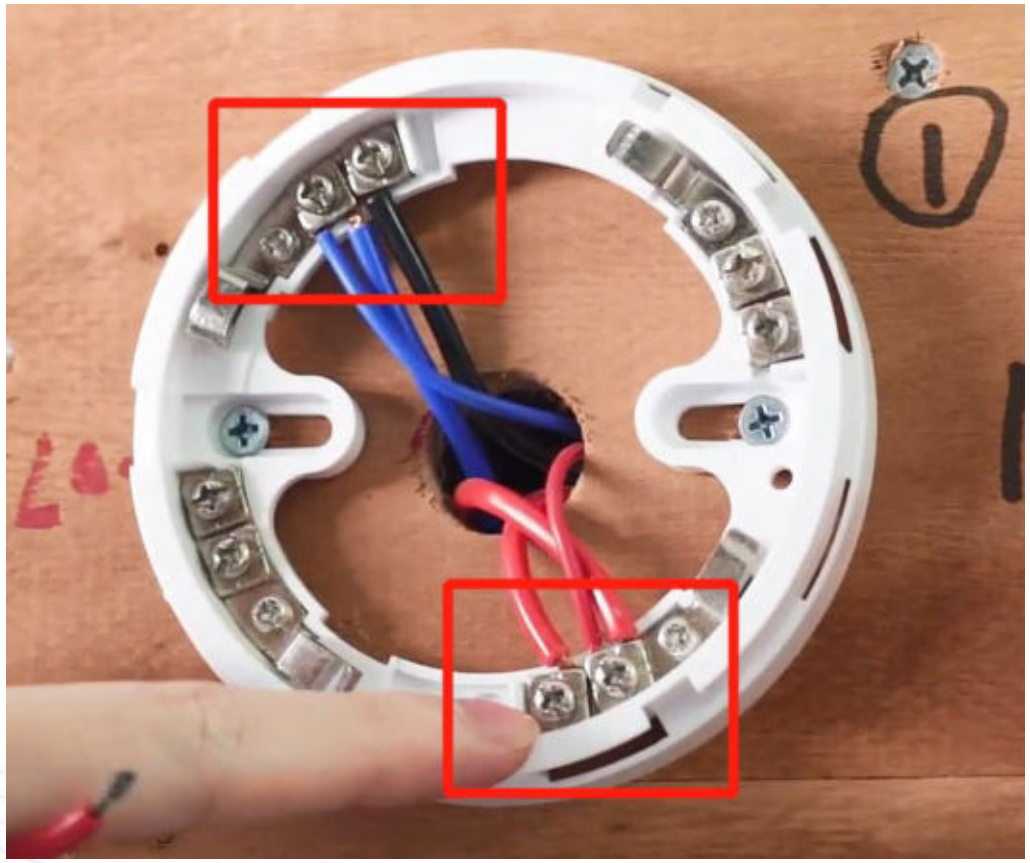


The terminal wires are connected up and down, on the left is LOOP IN, and on the right is LOOP OUT.



System Wiring

Smoke detector wiring

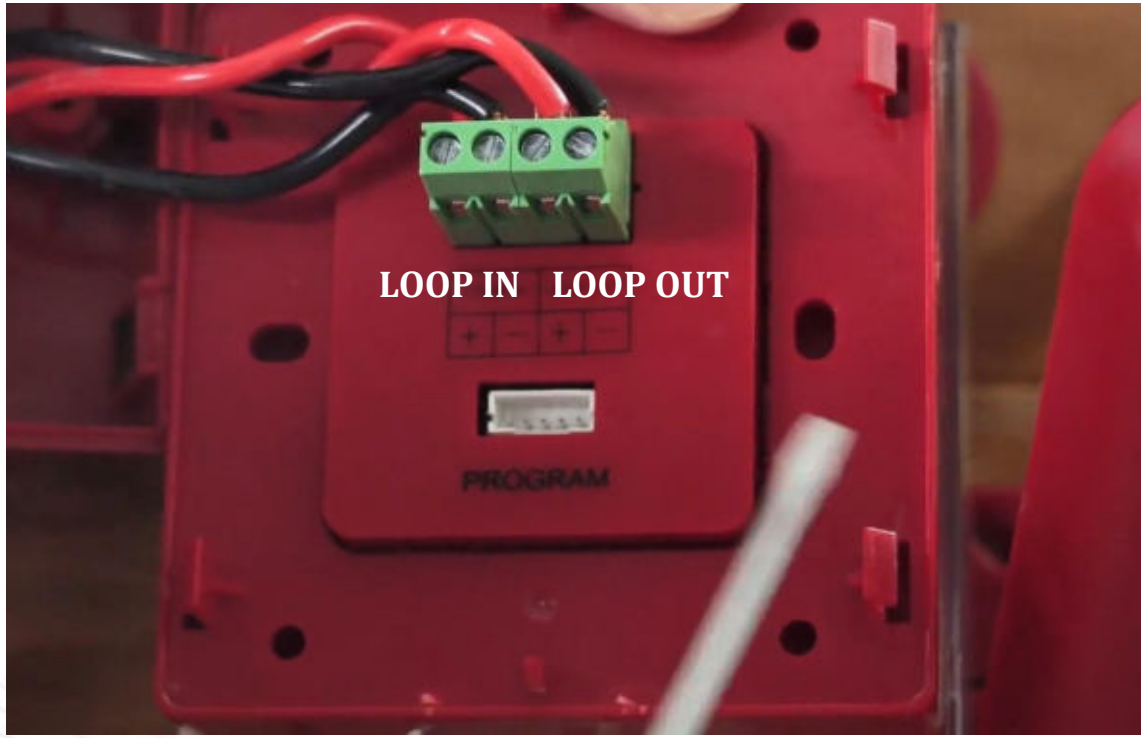


The red and blue wires are the wires connected to the panel.

Connect them to port 2 and port 5 of the smoke detector base.

System Wiring

Addressable manual call point wiring



Connect the wires from the smoke detector base to the next product:
addressable manual call point.

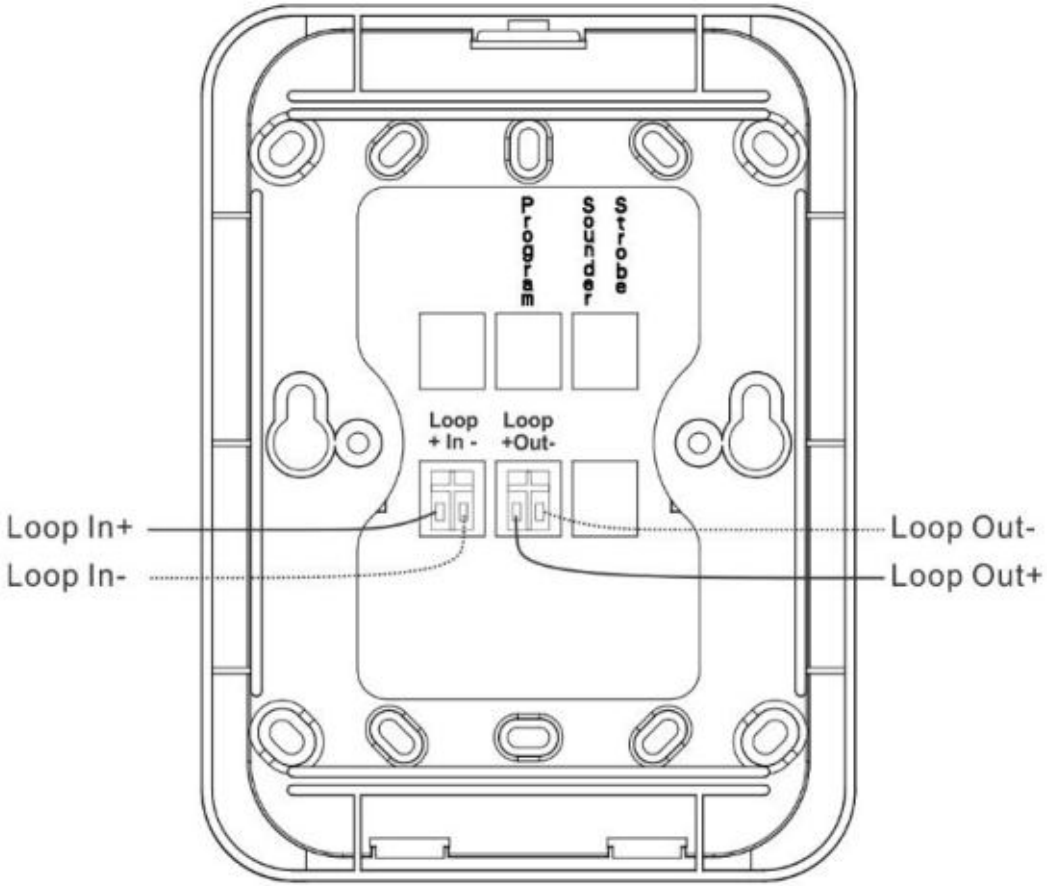
Connect the wires to the **"LOOP IN"** and **"LOOP OUT"** ports of the manual call point.

System Wiring

Addressable strobe sounder wiring

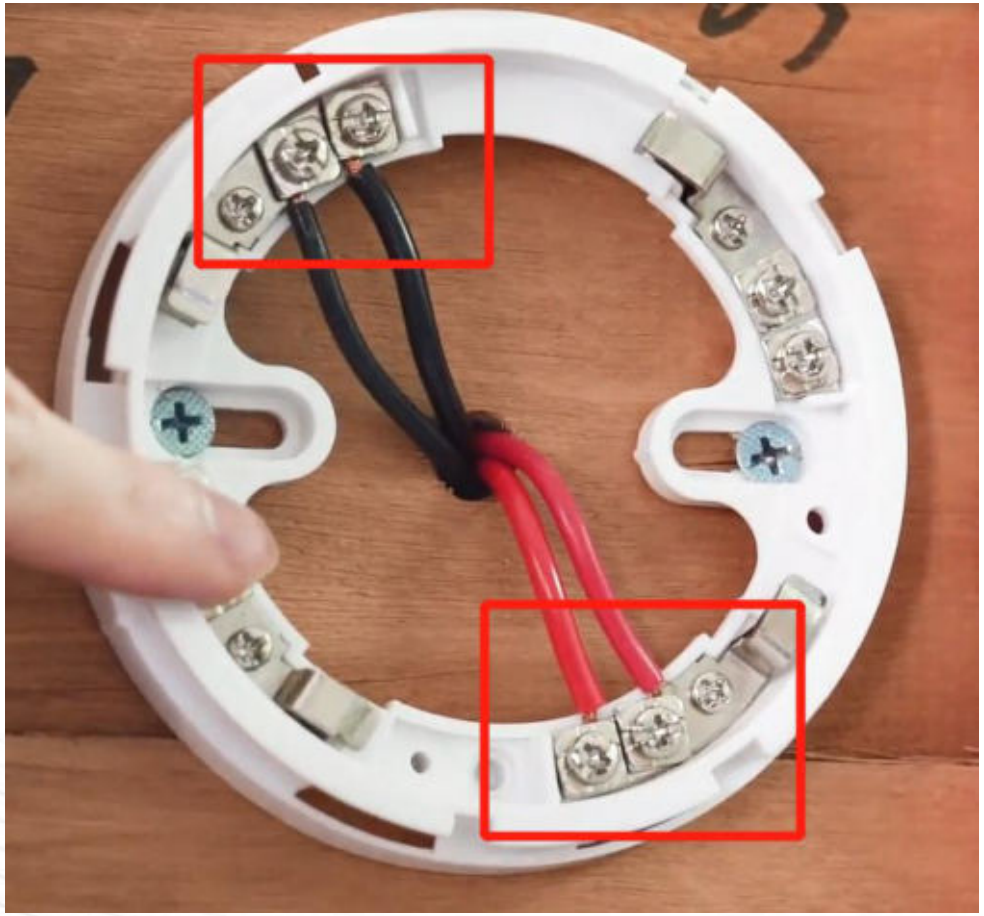
Connect the "LOOP OUT" wires of the manual call point base to the next product: addressable strobe sounder.

Connect the wires to the **"LOOP IN"** and **"LOOP OUT"** ports of the strobe sounder.



System Wiring

Heat detector wiring

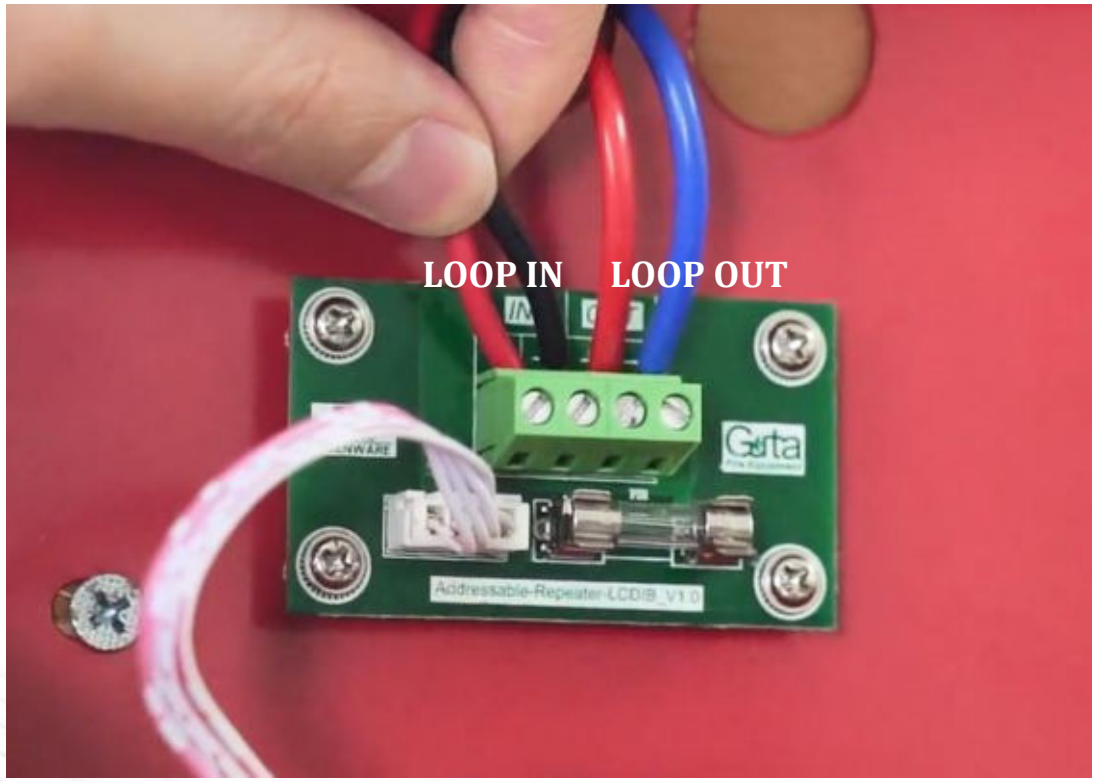


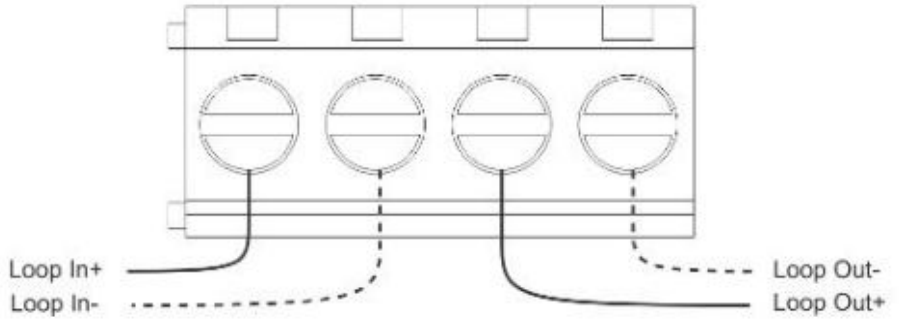
Connect the "LOOP OUT" wires of strobe sounder to the next product:
the heat detector base.

Connect the wires to port 2 and port 5 of the heat detector base.

System Wiring

Addressable annunciator wiring





Connect the wires of the heat detector base to the addressable annunciator.

Connect the wires to the **"LOOP IN"** and **"LOOP OUT"** ports of the addressable annunciator .

If you need to connect more products, you only need to connect the wires from the "LOOP OUT" port of the annunciator to other products.

04

PART FOUR

System Operation

Panel Menu

Menu

- **1. Panel Setup**
  - Configuration
  - TCP/IP
  - CAN
  - GSM
  - Change password
  - Printer
  - Customize type
  - Fault shield settings
- **2. Status & Operation**
- **3. Register**
  - Wired devices
  - Wireless devices
- **4. Zone Setting**
- **5. History**
  - Fire
  - Fault
  - Linkage
  - Operation
- **6. USB Setting**
  - Settings import
  - Settings export
- **7. Panel Info**
- **8. Restore Factory Settings**

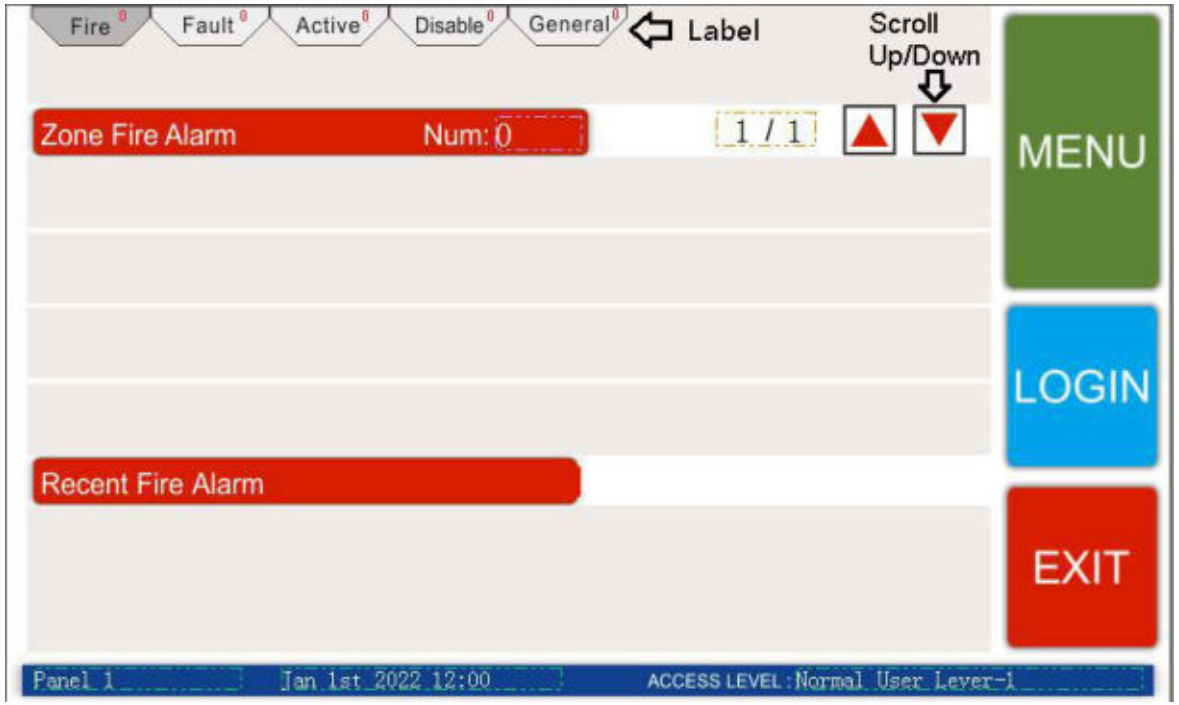
Panel Buttons

Button	Function
	Input numbers
	Move cursor up or page up
	Move cursor down or page down
	One to the left
	Move it one place to the right
	Enter the Confirm key
	The login permission page is displayed
	The detailed menu bar page is displayed
	Used to delete the key when the input is incorrect

Button	Function
	Return to the previous page in the menu and submenu
	Disable/Enable F.A Output
	Disable/Enable S.C Output
	Run LED.
	Evacuate: Activate all output device (change in Register)
	Silence Buzzer on Panel
	Silence S.C Output and all sounder devices (such as horn strobe and bell)
	Reset the panel, and clean all alarm.
	Disable/Enable F.P.E Output

System Operation

Home screen



- By touch the menu button on the screen, users can manipulate and view more system content.
- By touch the LOGIN button on the screen, users can enter the system with the corresponding access level password.
- By touch the exit button, the user can exit the current access level and return to level 1.
- When anything happens, they will be displayed in the event column corresponding to the main screen. For example, the detector sends a fire alarm signal to the control panel, which will be displayed on the Fire page.
- Disable information for devices or Zones will be displayed in the Disable column. When any fault occurs, it will be displayed in the Fault column.
- The information when the strobe sounder is activated will be displayed in the Activation column.
- Press the corresponding Label to switch pages.

System Operation

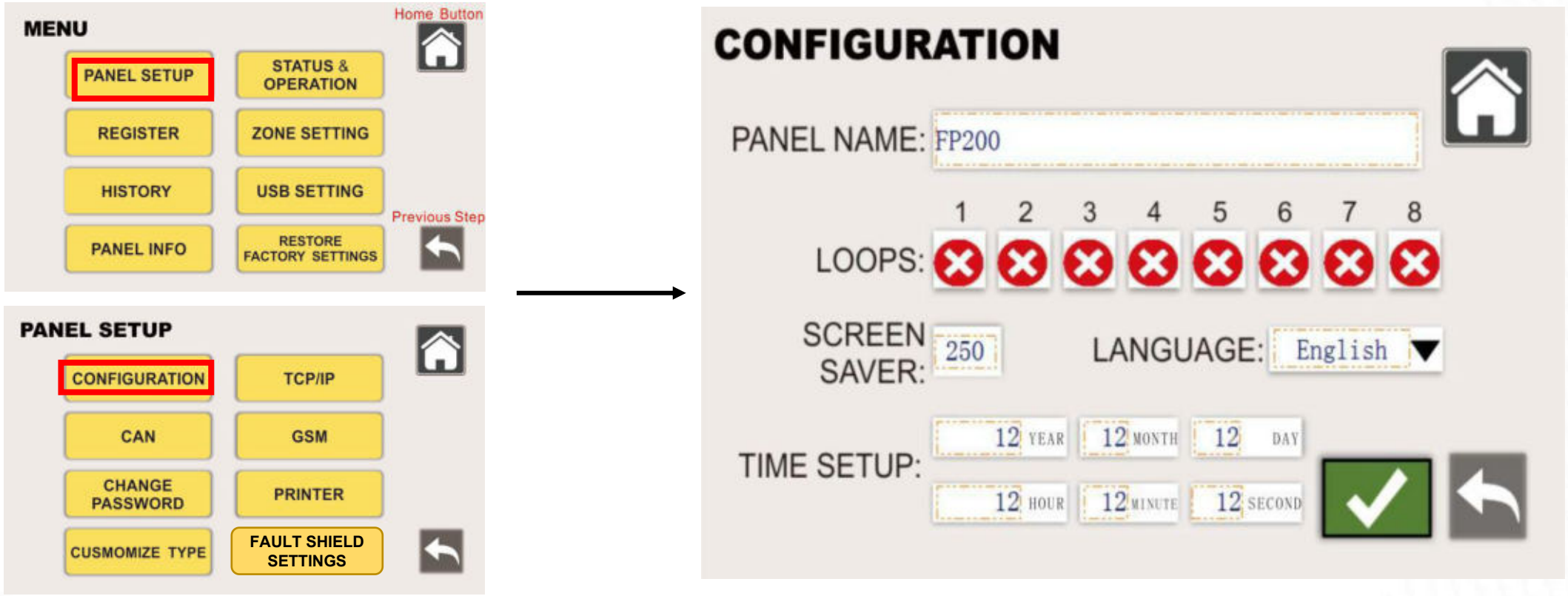
Log in to the account

User: Super Administrator
Password: 1111

System Operation

Panel Setup

Panel Setup —— Configuration



First, press "MENU", choose "PANEL SETUP", "CONFIGURATION", and set up the basic information of the panel.

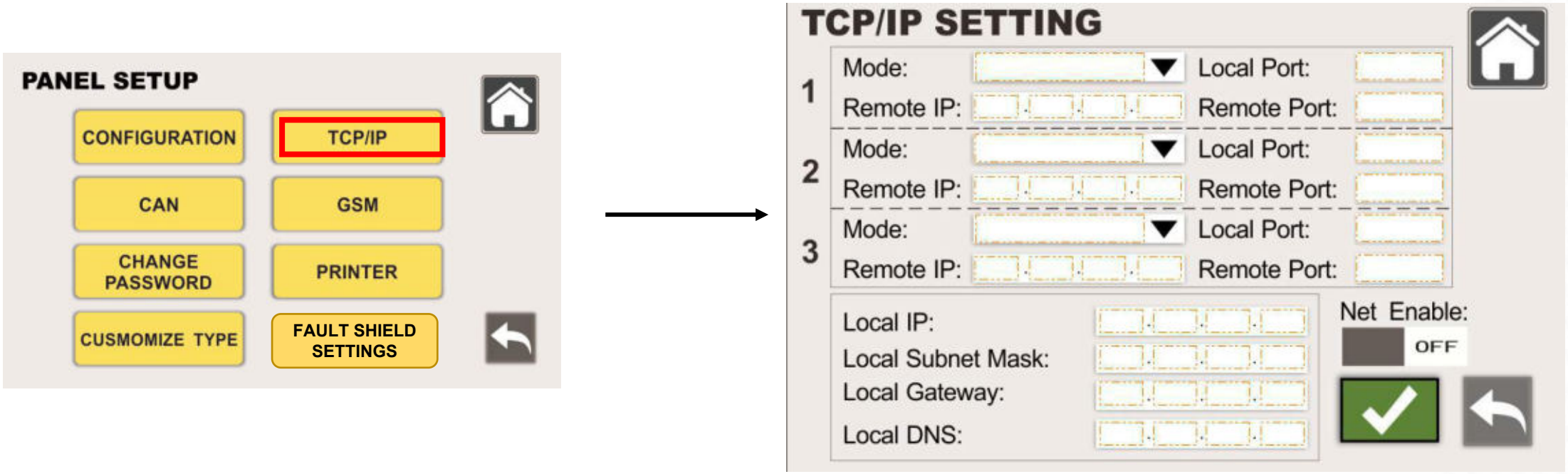
Enter your own "PANEL NAME".

Below, you can set up "SCREEN SAVER", "LANGUAGE" and "TIME SETUP". After setting, press "√" to save.

System Operation

Panel Setup

Panel Setup —— TCP/IP

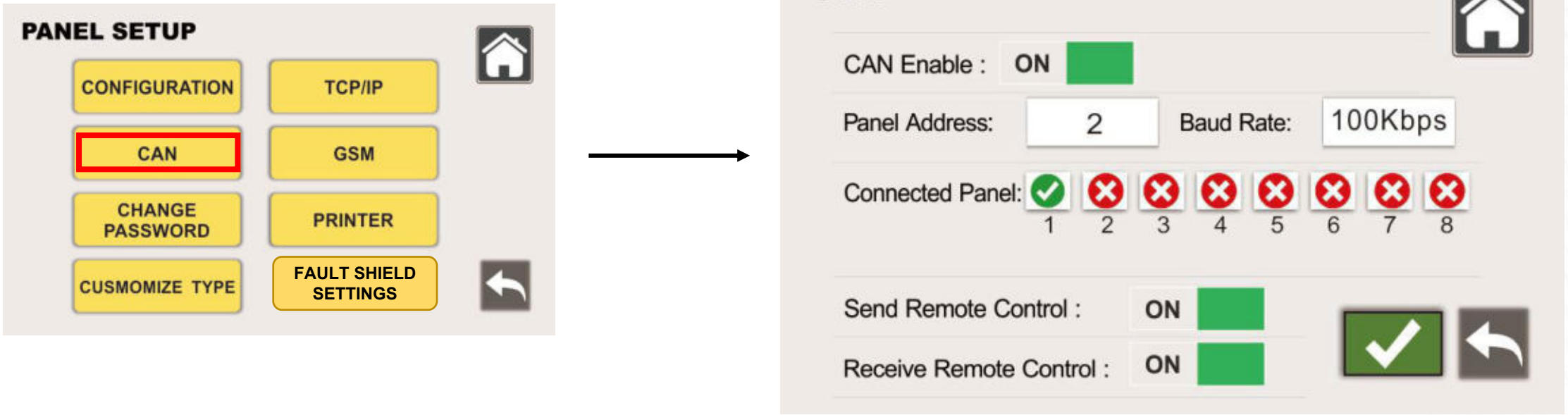


Set up the Ethernet according to your needs.
In "Net Enable", you can choose to turn on or turn off the Ethernet.
After setting, press "√" to save.

System Operation

Panel Setup

Panel Setup —— CAN

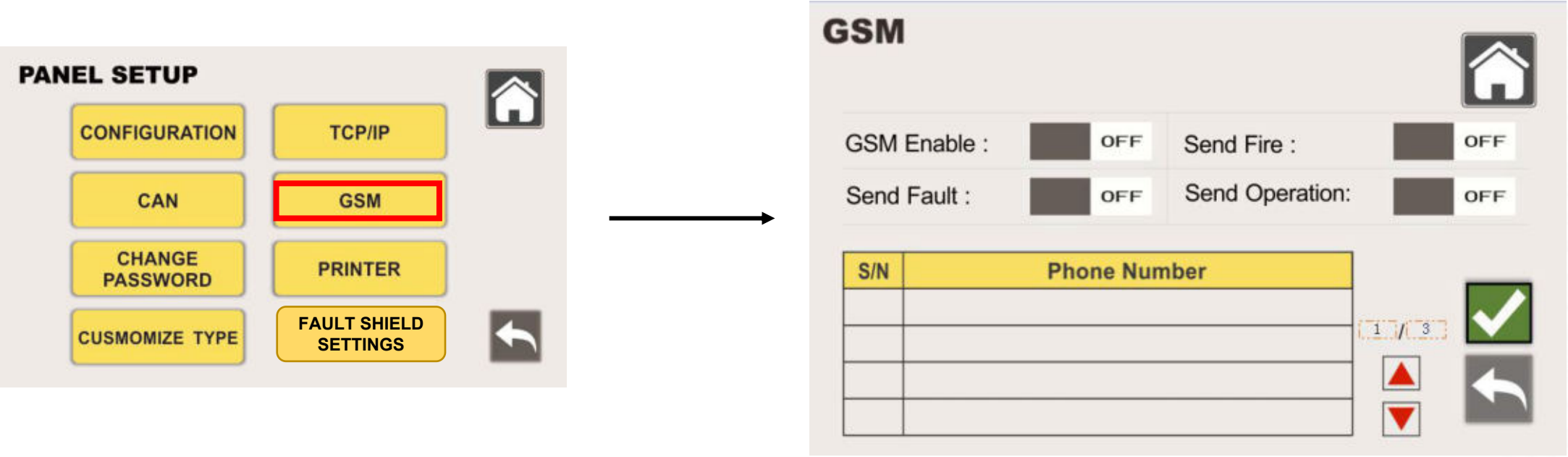


Next, set up "CAN" network. It is the connection between panel and panel.
You can choose to turn on or turn off the "CAN" network.
“2" is the panel number, "100Kbps" is the baud rate (optional), and the baud rate of each panel should be the same.
If there are other connected panels, you can press to turn on the corresponding ones.
Below is whether to send or receive the signal of the panel, they are turned on by default.
After setting, press "√" to save. In this way, if one of the panels has fire alarm information, fault information, etc., they will be showed on the other panels as well.

System Operation

Panel Setup

Panel Setup —— GSM

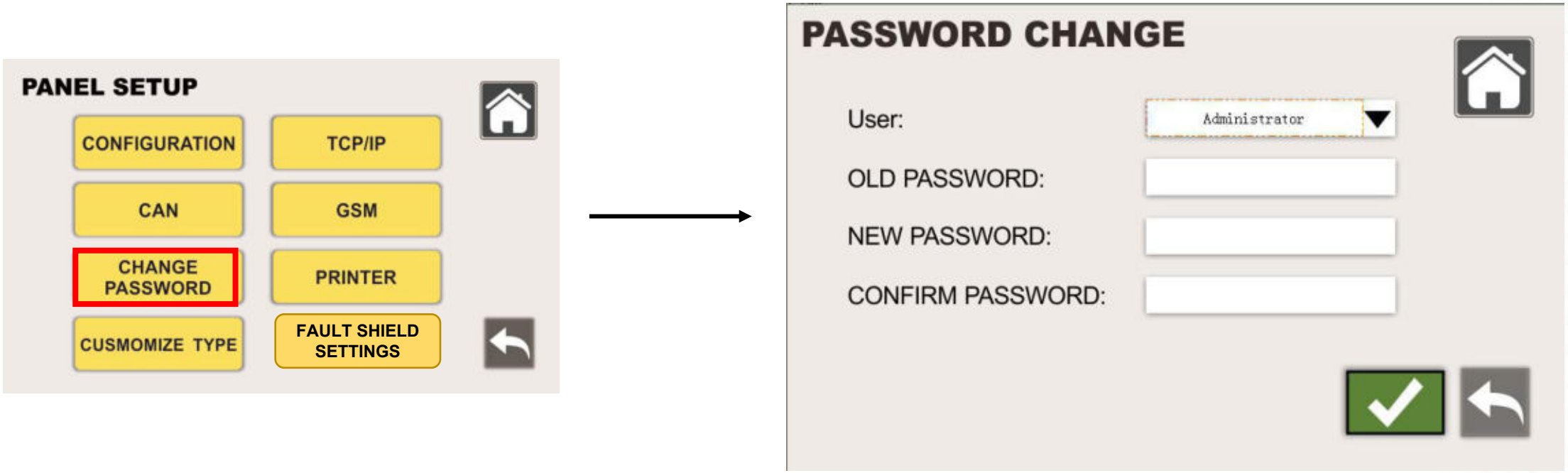


Next, set up "GSM", which is to send fire messages to mobile phones using 4G module.
Set up "GSM Enable", "Send Fire", "Send Fault", and "Send Operation".
Below, you can enter phone numbers for receiving text messages. Enter the dialing code + mobile phone number, and press "√" to save.

System Operation

Panel Setup

Panel Setup —— Change Password

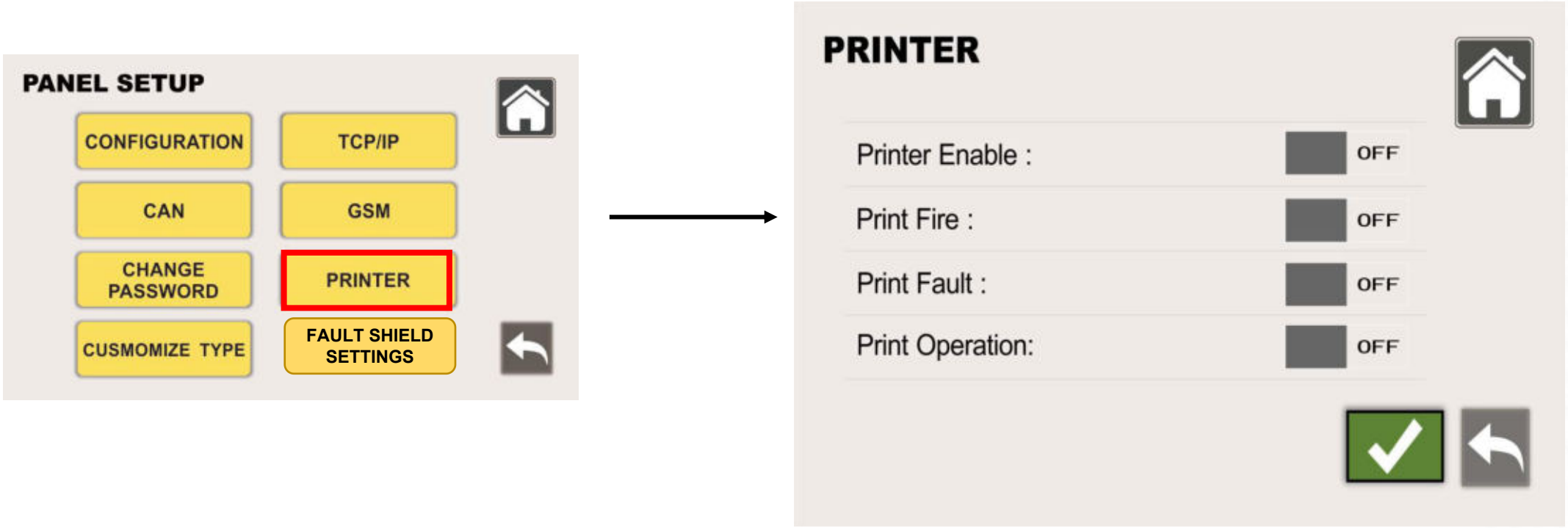


Press the PASSWORD CHANGE button, the user can change the password for login. The passwords for access level 2 and access level 3 can be modified through the interface shown in the figure 8 below.
The access level 2 user corresponding to the Administrator; the user access level 3 corresponding to the Super Administrator.
Developer is a user of access level 4, and only the manufacturer and the person trained by the manufacturer to change or modify the system can be authorized to access this level.

System Operation

Panel Setup

Panel Setup —— Printer



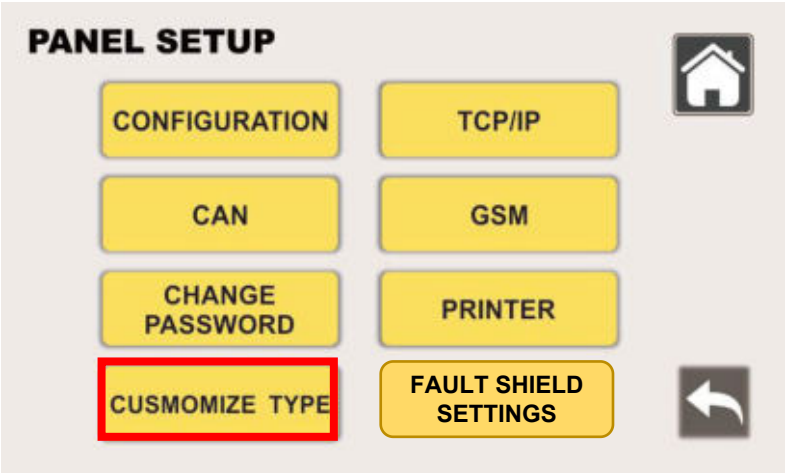
In the print setting window, as shown in Figure 10, set whether to enable the print module and set Fire, Fault and Operation information respectively. OFF means not disabled, ON means disabled.

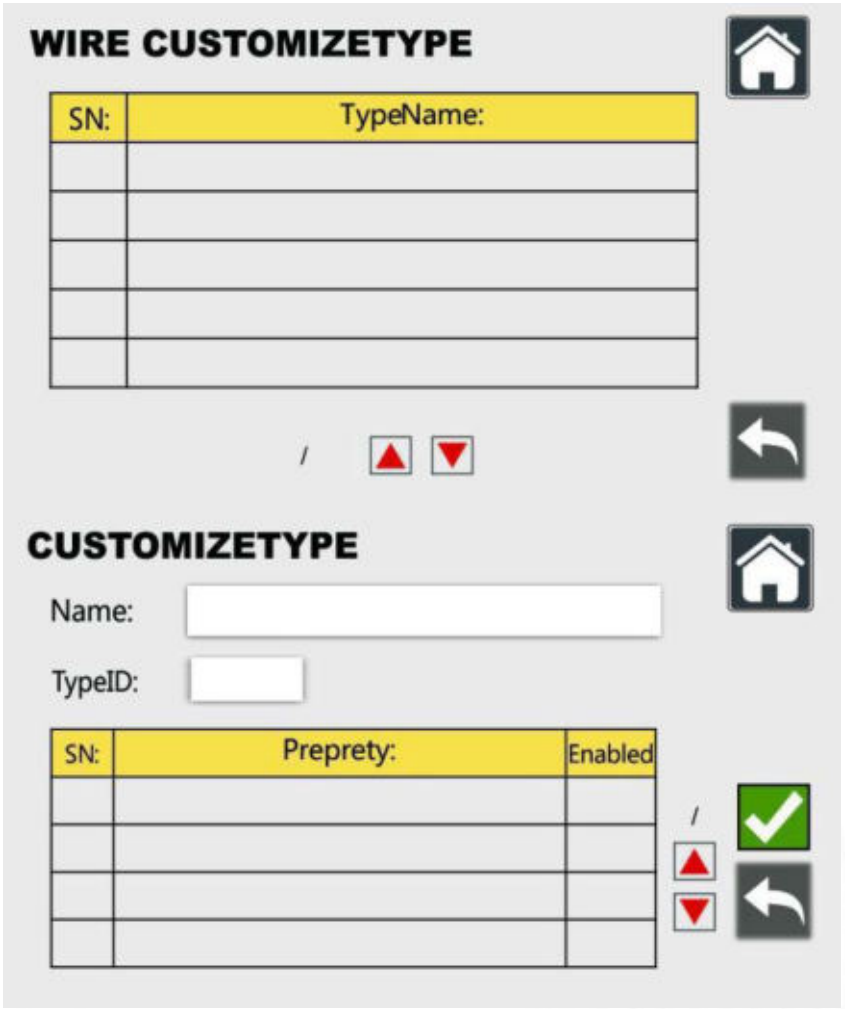
Note: The user must click "√" to confirm the change.

System Operation

Panel Setup

Panel Setup —— Customize Type





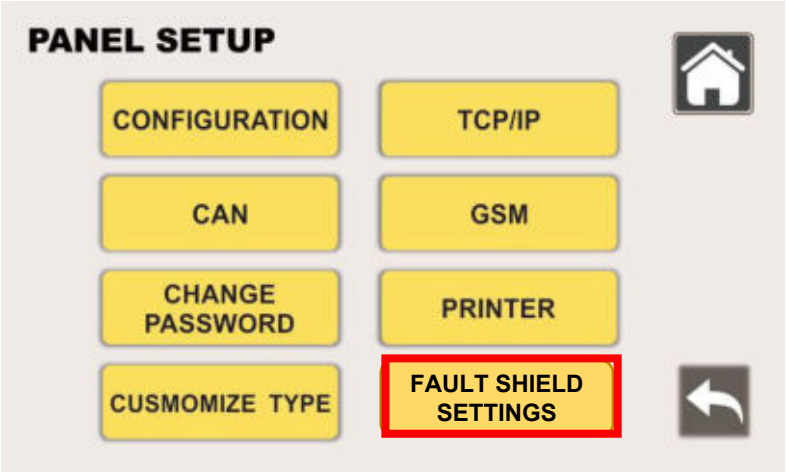
When new products are released, users can add device types to adapt. Detailed usage methods will be provided when new products are released.

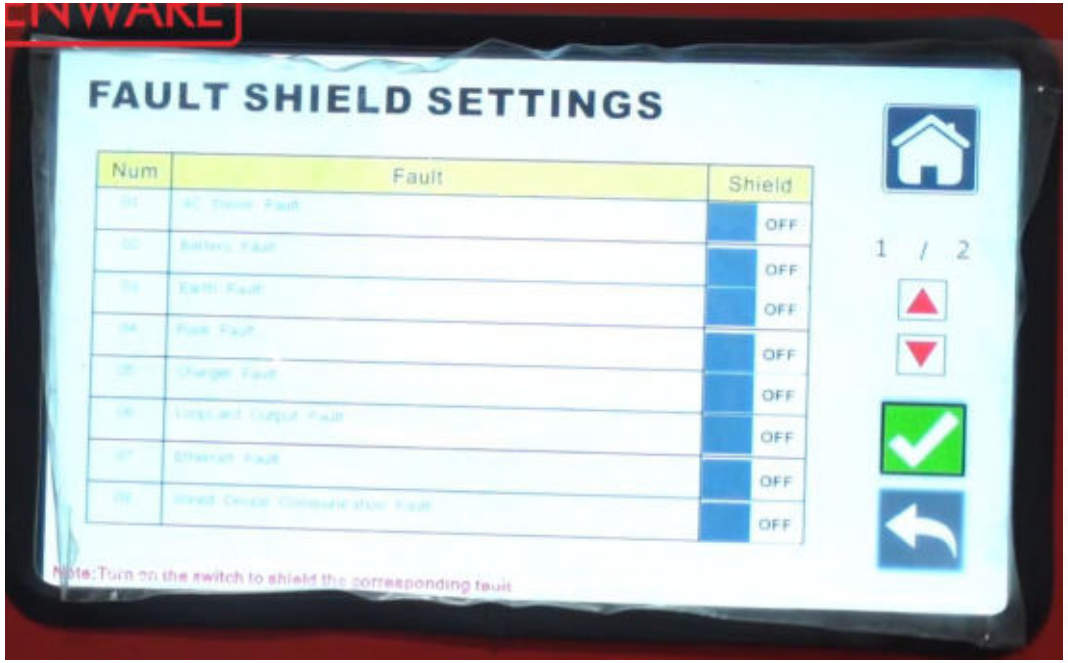
Note: The user must click "√" to confirm the change.

System Operation

Panel Setup

Panel Setup —— Fault Shield Settings



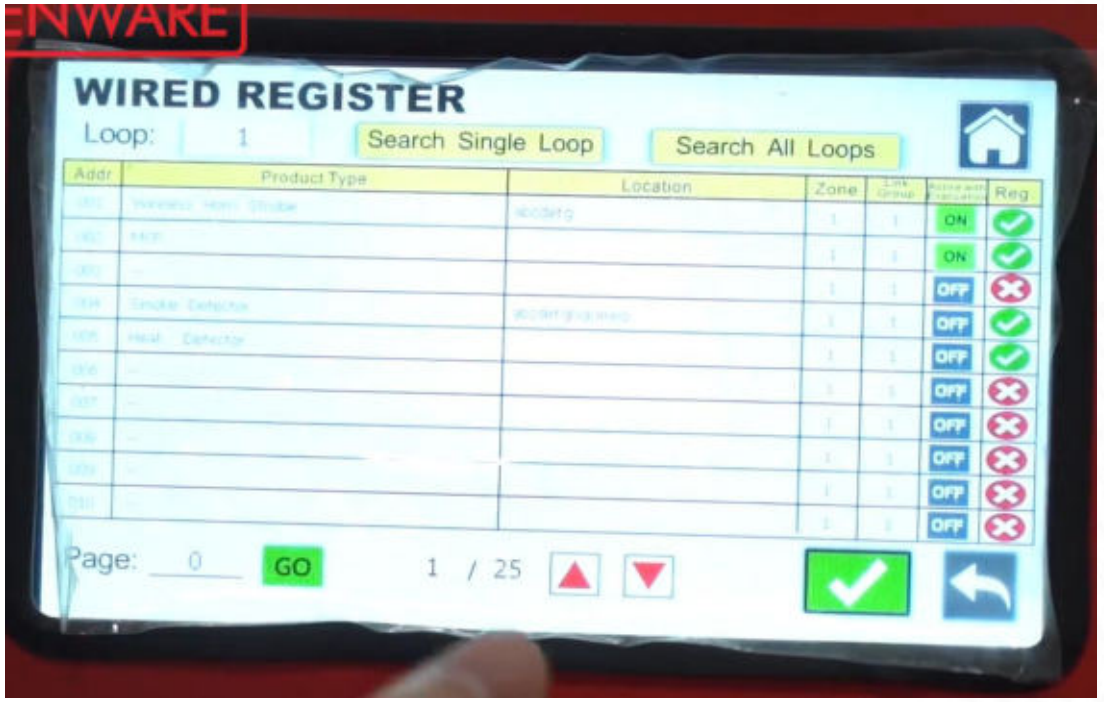


"Fault Shield Settings" is to shield different faults of the system.
For example, if there is no battery, turn on "Battery Fault", after saving, the panel will no longer show battery fault information. Others are the same, after turning on the “Fault Shield” of other options, the panel will no longer show the corresponding fault information.
That is, the corresponding fault information will no longer be showed at "Fault" on the panel home page.

System Operation

Register

Register—— Wired Devices



Second, press "REGISTER" at "MENU" to register the connected devices to the panel.
Press "WIRED DEVICE" to search for wired devices. You can search for devices in one loop, or you can search for devices in all loops. Normally, we choose to search for devices in all loops.
Wait for 230 seconds
On the screen are all the devices that are searched, press "√" to save.

System Operation

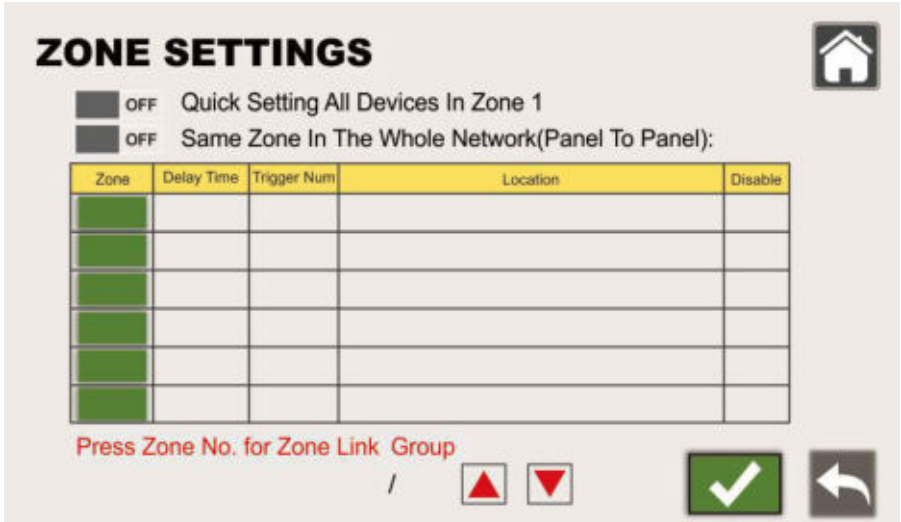
Register

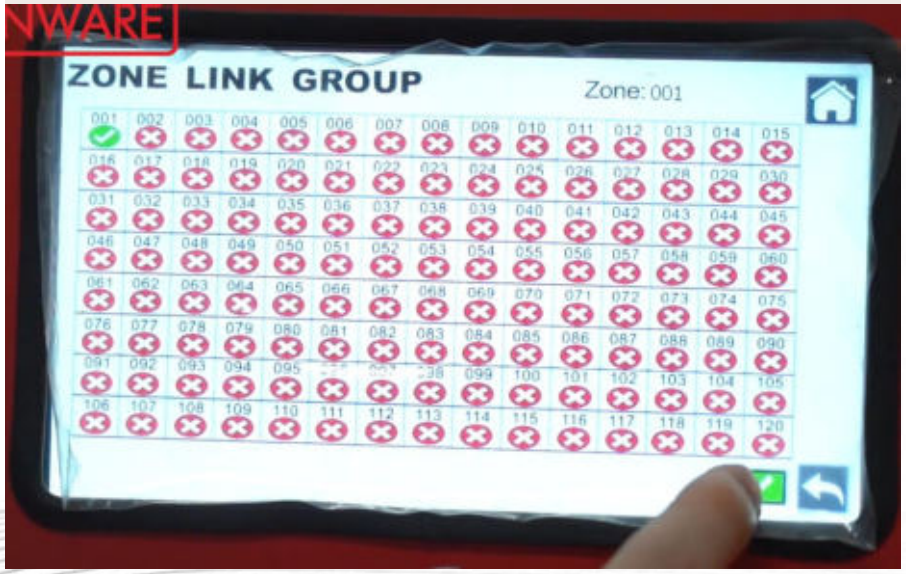
Register—— Wireless Devices

"WIRELESS DEVICE" is to register the wireless devices, they need to be manually added to the panel. There is Group 1 of wireless horn strobe, and the address and group of it is showed on the screen.
Press "Wireless horn strobe", add the wireless manual call point to the group.
Add wireless manual call point to address 1. Press "Product Type", choose "Wireless MCP", and choose “1” for "Zone" and "Link Group", turn on "Reg.", press "√" to save.
If there are more wireless devices, just continue to add them according to the above method.

System Operation
Zone Settings

Zone Settings



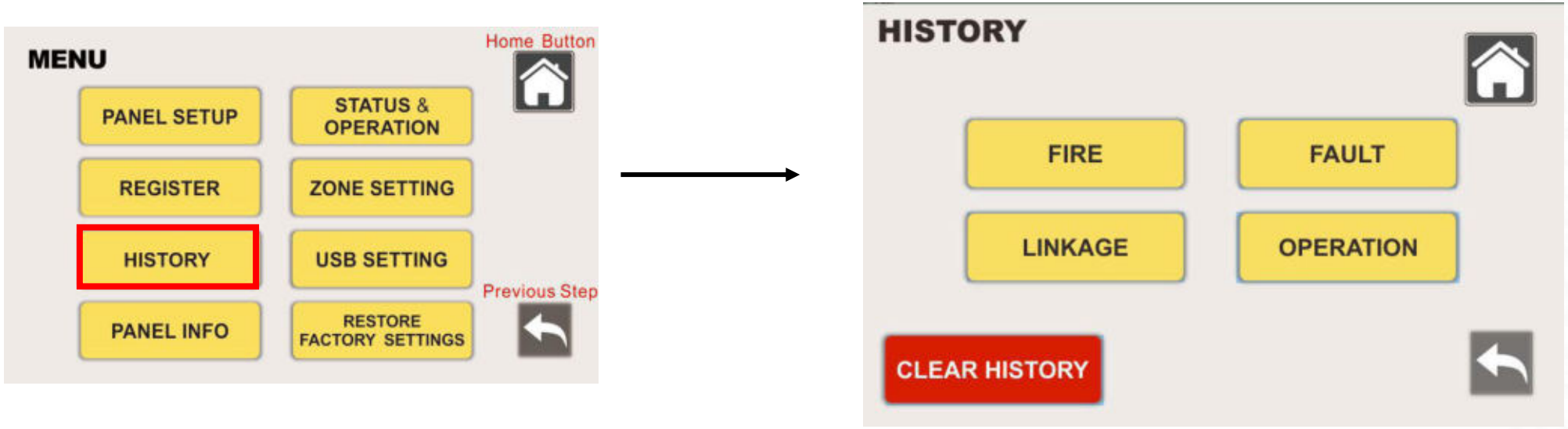


Next, press "ZONE SETTINGS" to set up the zones.
You can choose to turn on or off "Setting All Devices in Zone 1" and "Same Zone in the Whole Network".
According to "Zone" and "Link Group" of the devices, press “Zone 1”, open the corresponding Link Group.
Press "√" to save.

System Operation

History

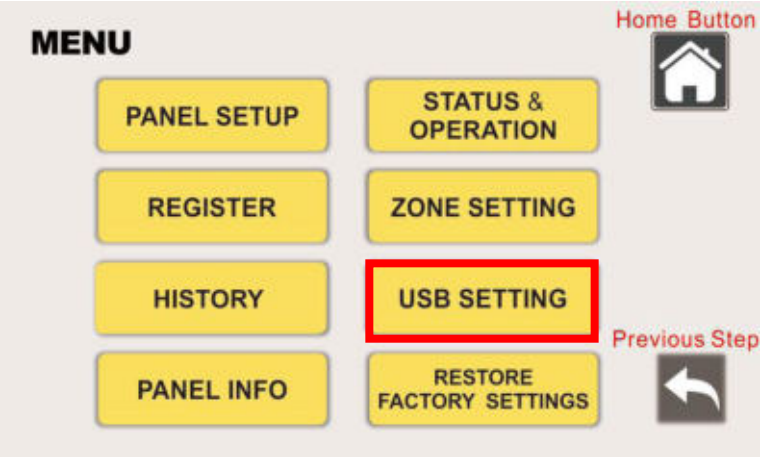
History



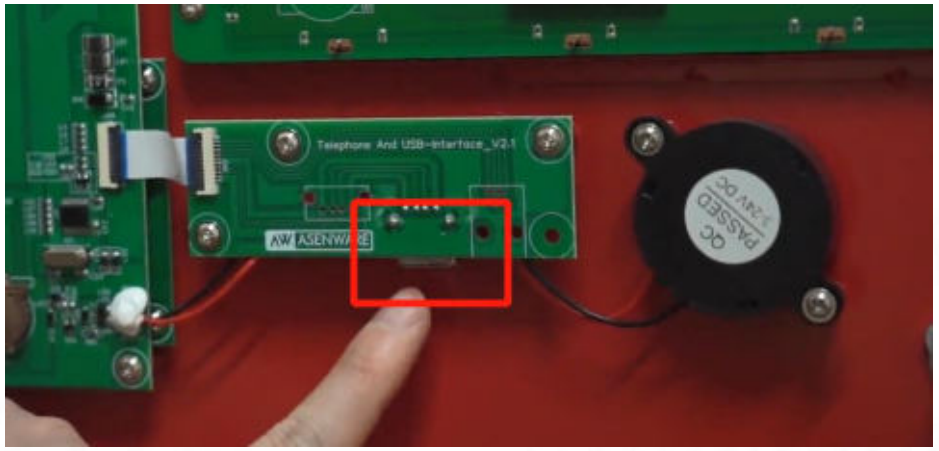
In "History", you can see "Fire History", "Fault History", "Linkage History", and "Operation History".
"Clear History" requires “Super Administrator” level to operate.

System Operation
USB Settings

USB Settings



Next is "USB Setting", which is the import and export of data.
The USB interface is in here, inside the panel, next to the motherboard.

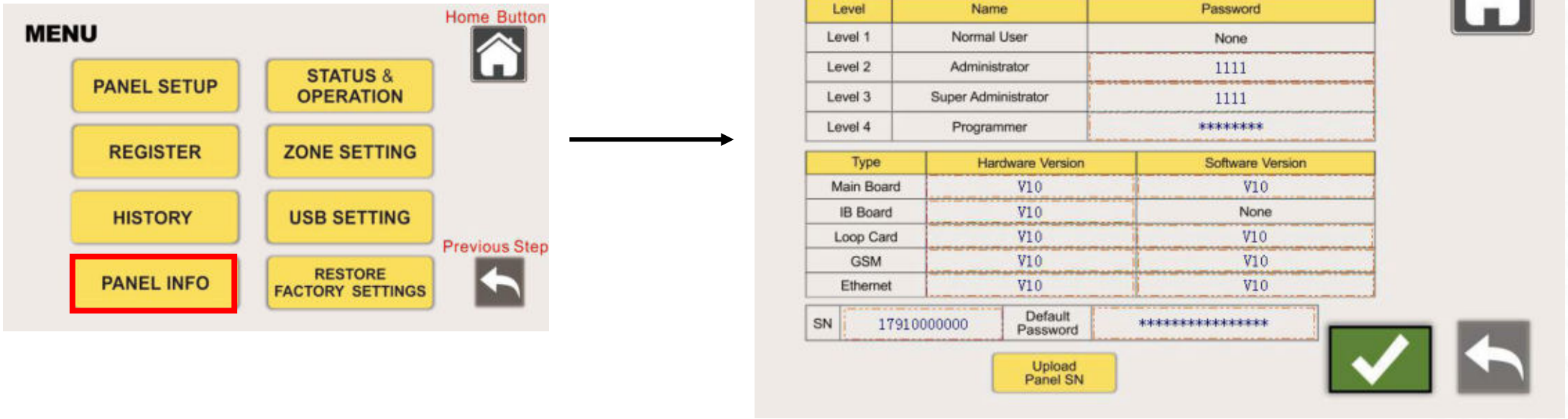


USB interface

System Operation

Panel Info

Panel Info



Next is "Panel Info", which is the basic information of the panel.
If level 2 and access level 3 forgets the password, the submenu user list can help them retrieve the password or change the password. Each user level can only modify its own level of password or subordinate password.

System Operation

Restore Factory Settings

Restore Factory Settings

"Restore Factory Settings" is to restore factory settings of the panel.

Thanks for watching