



USER'S MANUAL



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Gas Extinguishing Control Panel

ECP1000



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System Overview

The main contents of this manual are product introduction, installation, wiring, basic operation and troubleshooting for the readers to understand and use the product.

The manual is suitable for installation, maintenance and first-time users. Installation and maintenance personnel must have experience in the installation and maintenance of electrical fire protection systems, in addition to the following skills:

- ✧ Basic knowledge and installation skills of electrical fire protection systems and components.
- ✧ Basic knowledge and operational skills in fire wiring and electrical fire electronic wiring.

Symbolic Definitions

Symbols	Description
	Indicates a hazard with a high level of risk of death or serious injury if not avoided.
	Indicates a hazard with a medium level of risk that could result in death or serious injury if not avoided.
	Indicates a hazard with a low level of risk that could result in minor or moderate injury if not avoided.
	Used to send warning messages of the equipment or environmental safety. Failure to avoid this may result in equipment damage, data loss, reduced device performance, or other unpredictable results. "Notice" does not involve personal injury.
	Additional explanation of key information in the text. "Description" is not a safety warning message, and does not involve personal, equipment or environmental injury information.

Usage Requirements

- ✧ Do not place and install the equipment in a disturbing environment such as strong magnetism.
- ✧ Do not place and install the equipment near highly heated equipment or expose it to direct sunlight for long periods of time.
- ✧ Do not install the equipment in wet, leaky or highly dusty environment.
- ✧ Do not disassemble the equipment by yourself.
- ✧ Do not use the equipment under conditions that exceed the rated input and output.
- ✧ Do not transport, use and store the equipment at temperatures and humidity conditions that exceed.

Power Requirements

- ✧ Do not use the equipment under conditions that exceed the rated power input.
- ✧ Do not replace the power module yourself.
- ✧ Do not replace the batteries yourself.
- ✧ Be sure to follow the requirements of the use of the battery, otherwise it may cause the battery fire, spontaneous combustion or explosion and other hazards.
- ✧ Please make sure that the protective PE ground of the power supply is well connected to ensure low line impedance.

1. System Overview

1.1. System Introduction

EPC1000 is an integrated fire alarm and gas extinguishing control panel designed in accordance with EN 54-2, EN54-4 and EN 12094-1 standards. It includes fire detection function, and at the same time, after detecting a fire, it can automatically or manually start the gas release to extinguish the fire in the environment.

1.2. System Features

- ✧ Adopting a new generation of high-speed microprocessors, which increase data processing speed by 100 times and data storage capacity by 1000 times compared with traditional technologies.
- ✧ Panel features a 4.3-inch color liquid crystal display (LCD) with a display resolution of 480 x 272.
- ✧ Support for importing or exporting system setup files and history files using a USB flash drive for easy system maintenance.
- ✧ Support for multiple panels networking, with the option of CAN networking or Ethernet networking.
- ✧ System operation history record function: 10000 records each of historical fire alarm, historical fault and historical operation.
- ✧ The system implements hierarchical management of multi-level users, and users at different levels are given corresponding system operation permissions to facilitate system management;
- ✧ The system can be upgraded on site to ensure that the system works in a stable and reliable state.
- ✧ Optional function modules: host networking module, intelligent Class A module.

1.3. System Wiring Diagram

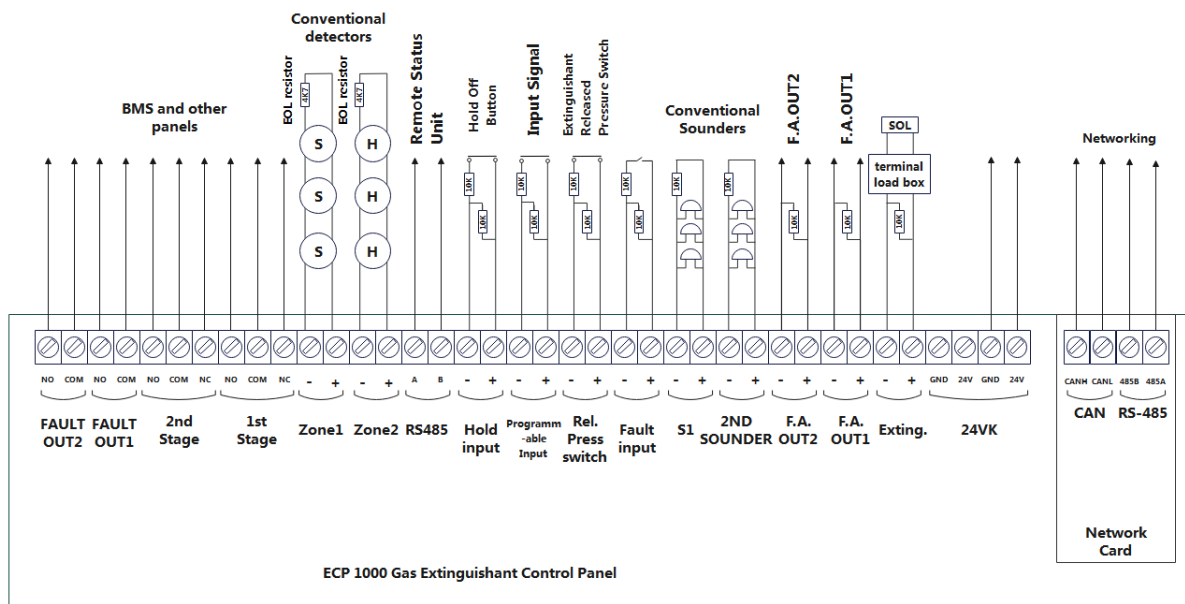


Figure 1 -1 System wiring diagram





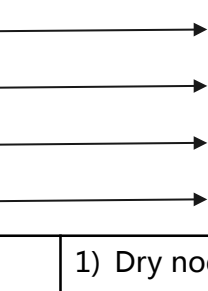
1.4. Technical Specifications

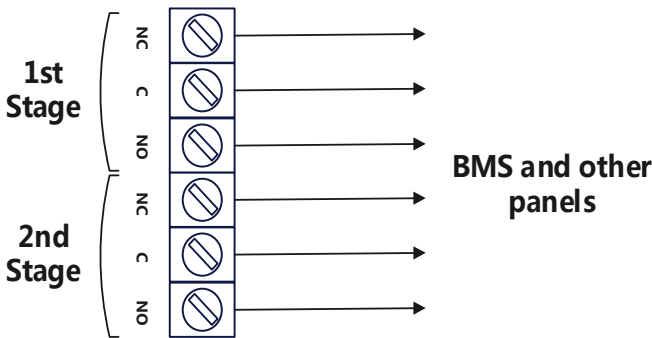
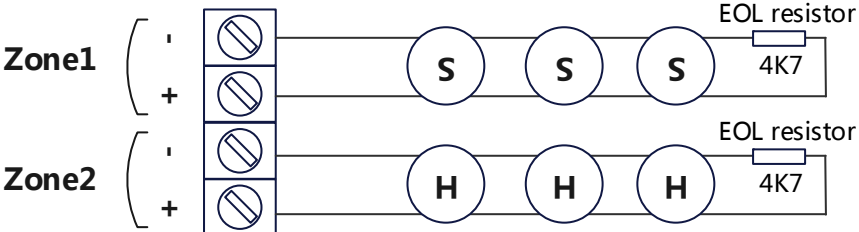
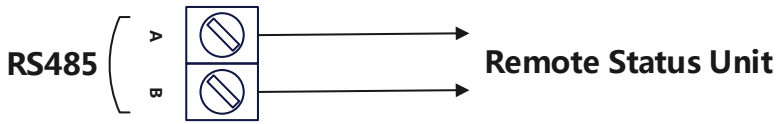
Power supply		
Mains supply	110V/230V AC (-15%, +10%),50Hz/60Hz	
Mains fuse	3A	
Operating voltage	20 ~ 30VDC	
Recommended mains cable	Standard/black mains cable, cable size 0.75mm2	
Power rating	Imin=0.1A; Imax.a=3.2A; Imax.b=3.8A	
Max. battery supply current	8A (when the Mains is disconnected)	
Max. charging current	1A	
Battery capacity, type and recommended model	NP7-12 for 7Ah VRLA(Yuasa)	
Max. internal resistance of battery	1Ω	
Battery fuse	8A	
Quiescent current (full loaded)	< 0.4A	
Outputs		
S.C.OUT (+, -)	Output voltage	20 ~ 30VDC
	Max. output current	500mA
	End of line resistor	10K ohm, 1Watt
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2.5mm ²
	Transmission distance	≤1500m
2ND SOUNDER (+, -)	Output voltage	20 ~ 30VDC
	Max. output current	500mA
	End of line resistor	10K ohm, 1Watt
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2.5mm ²
	Transmission distance	≤1500m
F.A.OUT1&2 (+, -)	Output voltage	20 ~ 30VDC
	Max. output current	50mA
	End of line resistor	10K ohm, 1Watt
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2.5mm ²
	Transmission distance	≤1500m

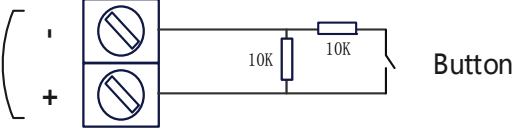
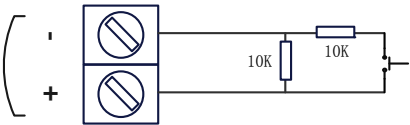
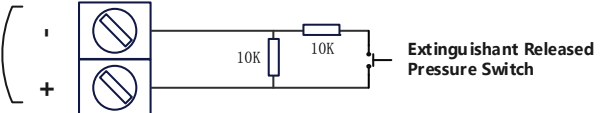
FAULT OUT1&2 (COM, NO)	Contact capacity	2A@30VDC, 0.5A@125VAC
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2.5mm ²
1ST & 2ND STAGE (NO,COM, NC)	Contact capacity	1A@30VDC, 0.5A@125VAC
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2.5mm ²
24VK (+, -)	Output voltage	20 ~ 30VDC
	Max. output current	Two ports total 3A
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2.5mm ²
ZONE1&2	Output voltage	20 ~ 30VDC
	Max. output current	50mA
	End of line resistor	4.7K ohm, 1Watt
	Recommended type of cable	Unscreened twisted-pair, 1.5mm ²
	Max. Loop length	≤1500m
	Cable diameter	1mm ² ~ 2.5mm ²
EXTING. (+, -)	Output voltage	20 ~ 30VDC
	Max. output current	3A
	End of line resistor	10K ohm, 1Watt
	Recommended type of cable	Plain unscreened cable, 1.5mm ²
	Cable diameter	1mm ² ~ 2.5mm ²
Network communication		
RS-485	Transmission rate	9600 bps
	Recommended type of cable	Unscreened twisted-pair, 1mm ²
	Transmission distance	≤1200m
	Cable diameter	1mm ² ~ 2.5mm ²
CAN	Max. number of panels	20
	Transmission rate	Optional: 10K, 20K, 50K and 100K bps
	Recommended type of cable	Unscreened twisted-pair, 1mm ²
	Transmission distance	≤1000m
	Cable diameter	1mm ² ~ 2.5mm ²
Physical dimensions		
Approx. Dimensions of the panel (W×H×D)		410×460×92mm
Approx. weight		7.5±0.5 kg (without battery)
Environmental class		
Temperature range: -5°C~ 40°C, Class A; Max relative humidity: 95% (40°C ± 2°C, no condensation)		

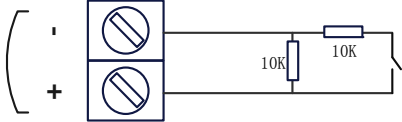
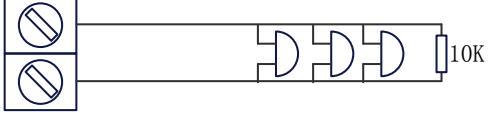
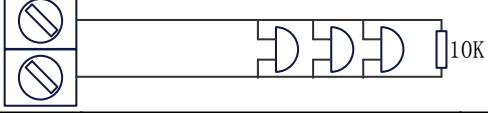
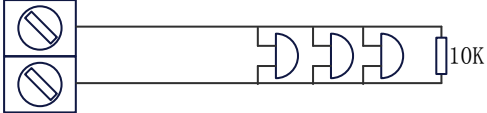
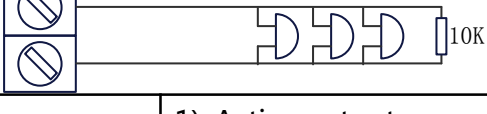
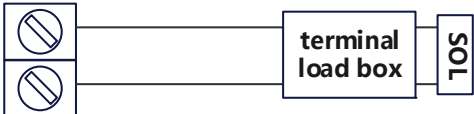
1.5. Peripherals

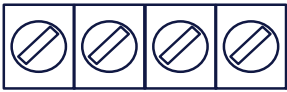
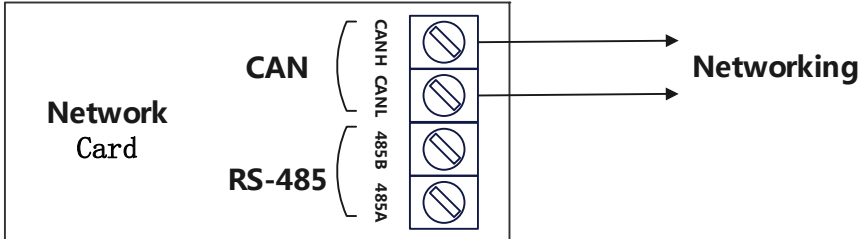
Input or output devices for various environments; for example: fire alarm, fault, active output, electromagnetic output, etc. The panel input and output interface parameters and functions are shown below.

Port Name	Parameters	Function
FAULT OUT1 (NO COM)   FAULT OUT2 (NO COM)  	 BMS and other panels	
Fault output	1) Dry node signals. 2) The contact capacity is	When the panel in fault condition, it ouput a fault

	2A@24VDC	signal.
		
1st stage signal output 2nd stage signal output	1) Dry node output. 2) Contact capacity : 1A@24VDC	Output corresponding to 1st and 2nd stage states respectively
		
Conventional detector circuit (2 loops)	1) Maximum output current : 50mA@24V; 2) Can be equipped with conventional detectors, such as C9030T, C9020T, etc.. It can be connected with other company' s detectors, but its alarm current and quiescent current should meet the requirements: its total quiescent current should less than 10mA@24V. 3) With short circuit and open circuit detection function.	When a fire occurs, the panel will be informed of the fire through this line equipped with conventional detectors.
		
RS485	Communicate with Remote Status Unit, A maximum of seven remote status disks can	

	be connected.	
Hold input 		
Hold input	1) Switching signal input. 2) With short circuit and open circuit detection function.	Connect to the Hold off button on the field. When the button is pressed, the Hold Activated indicator on the panel will remain on, and pauses the gas release countdown in progress.
Programmable Input 		
Programmable Input	1) Switching signal input. 2) With short circuit and open circuit detection function.	Customizable on the panel for the following functions. 1) Mode selection: Connect to remote auto/manual switch. 2) Manual release: Connect to the remote release button. (3) Low-pressure switch input: connect to the low-pressure switch of the fire extinguishing agent and report the low-pressure fault.
Pressure Feedback 		
Pressure feedback input	1) Switching signal input. 2) With short circuit and open circuit detection function.	After the extinguishing agent is released, the pressure switch will input signal

Fault input 		
Fault input	1) Switching signal input. 2) With short circuit and open circuit detection function.	Monitor and receive fault signals occurring in other systems or equipment, and report faults on the panel's LCD screen interface.
1ST SOUNDER 		
Conventional sounder output1	1) Active output 24V@500mA; 2) With short circuit and open circuit detection function.	Connect to conventional sounder
2ND SOUNDER 		
Conventional sounder output2	1) Active output 24V@500mA; 2) With loop short circuit, open circuit detection function.	Connect to conventional sounder strobe alarms
F.A. OUT1  F.A. OUT2 		
Fire alarm output (2 loops)	1) Active output 24V@50mA; 2) With short circuit and open circuit detection function.	When the panel received a fire alarm signal, it outputs a fire signal to other systems.
Exting. 		
Exstinguishing output	1) Providing 24V@3A 10min output.	Activate the solenoid valve, aerosol.

	2) With short circuit and open circuit detection function.	It can activate 10 solenoid valves in turn respectively after adding auxiliary accessories.
 <p>GND 24V GND 24V</p>		
24VK output	1) Maximum out current: 24V @ 3A , two ports in total. 2) 24VK will be cut off briefly when the panel is reset.	Provide power to external auxiliary devices; including Remote Status Unit, input and output modules, zone modules, etc. .
		
Network Card (Optional)	1) 用于不同控制器间的互联网	

2. System Engineering & Installation & Dimensions

2.1. Product Dimensions

✧ ECP1000 Dimensions

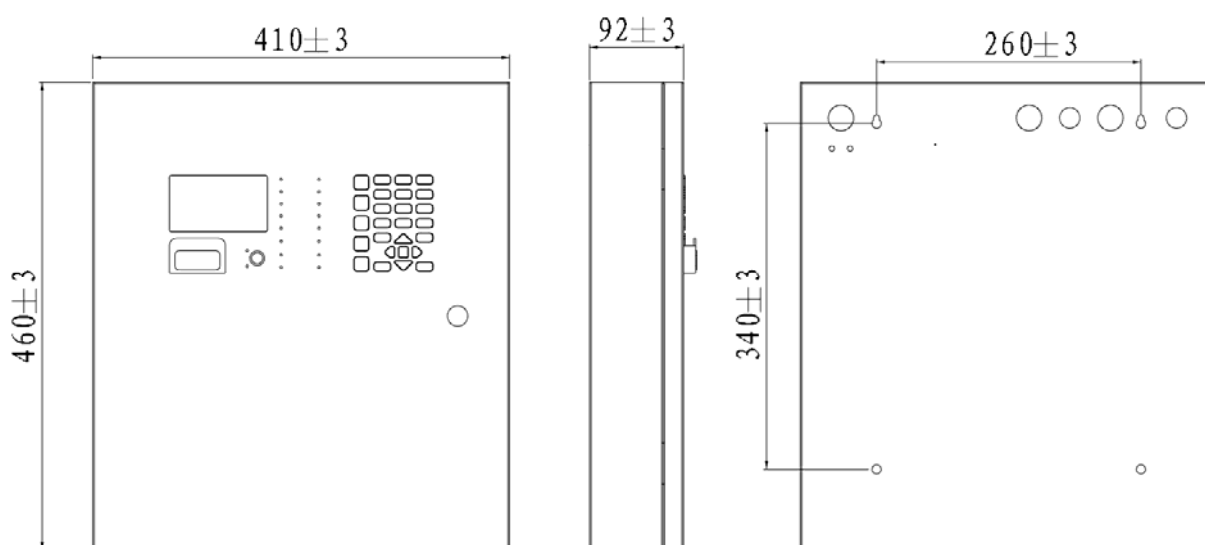


Figure 2 -1 Dimensions (unit: mm)

2.2. System Installation

2.2.1. Open Box Inspection

Before installation, the site equipment should first be checked. After opening the packing box, check the contents of the box one by one according to the packing list, the main inspection includes: installation instruction manual, fuse, spare screws, panel key, etc., and then make the necessary checks on the appearance of the panel after checking that it is correct. Please contact our sales if you find any non-conformity in each check.

2.2.2. Engineering Configuration Inspection

Check whether the content of the control panel packing list is consistent with the configuration of the project, and the requirements match the design drawings.

2.2.3. Panel Internal Configuration and Connection Status Inspection

Please check the panel's internal configuration, such as the power connection. And please check the internal connection of the device in case of any disconnection caused by transportation.

2.2.4. Power-on Test

Power-on the control panel without peripherals devices after passing the above inspections to verify the panel power supply and basic functions (such as keys, instructions, etc.) .

2.2.5. External Equipment Inspection and Connection

Check the condition of the buses connected to the control panel, measure the insulation resistance between the buses of different loops and between the buses and ground, and the load condition of the loops.

Use the commissioning device to check the condition of the loop equipment, i.e. whether the number, code and working status of the equipment meet the design requirements, eliminate the existing faults and prepare for the system connection.

Connect the system external device or connection line to the panel input port , each device' s definition refer to the label description. Require good contact of the port, after wiring is completed, confirm with a multimeter that there is no short circuit or open circuit condition.

3. System Commissioning and Instructions

3.1. System Commissioning

Start the system commissioning after the wiring is completed and inspection. The main content of the commissioning includes the registration and test of detector & module etc.

3.2. System Operation and Instructions

3.2.1. Panel Features

The ECP1000 panel is shown in the following figure.



Figure 3-1 Panel layout diagram

The panel contains the basic functions of alarm inquiry and control, please find:


① Indication of functional areas.

No.	Text	Color	Function Description
01	FIRE	Red	The red indicator remains on when the fire alarm occurred.
02	Power Fault	Yellow	The yellow indicator remains on when the power failure occurred. Power fault includes main power failure, backup power failure, charger failure occurred.
03	Test	Yellow	The yellow indicator remains on when the panel is in Test status.
04	Hold Activated	Yellow	The yellow indicator remains on when the Hold button connected to the panel is pressed. When the Hold button fails, the indicator remains on.
05	Power	Green	The green indicator remains on when the panel is power on.
06	System Fault	Yellow	The yellow indicator remains on when the panel

			system failure occurred.
07	Disable	Yellow	The yellow indicator remains on when disable function is activated.
08	Fault	Yellow	The yellow indicator remains on when the panel failure occurred.
09	Activated	Red	1, 2 stage status indicator. 1 stage status : flashing; 2 stage status : remains on.
10	Evacuate	Yellow	Evacuation indicator, when the Evacuate button is pressed, the S.C. Out port (conventional sounder circuit) output is activated and this indicator remains on at the same time
11	Extinguishant Released	Red	When the Rel. Press switch signal (Extinguishant Released Pressure Switch) is pressed, the indicator remains on and the panel will light up the gas release indicator. The Released Signal which is set to None, Exting will remain on after output.
12	Sounder Disable/Fault	Yellow	The yellow indicator remains on when the sounder is disabled; The yellow indicator flashes when the sounder failure occurred.
13	Auto&Manual	Yellow	Auto & Manual indicator. The indicator will remain on when the system is under Auto + Manual mode.
14	Manual Only	Yellow	Manual Only indicator. It indicates that the system is currently in manual only and will not perform automatic gas release. At this time, the indicator will remain on.

② **Key function area.**

No.	Text	Function Description
01	Extinguishant RELEASE	Extinguishant Release Button. When the protective cover is opened and the key is pressed, the panel will enter manual release mode.
02	Evacuate	Evacuate button, to start all the sounder strobe connected to the panel
03	Reset	Reset button to reset the panel
04	Silence	Silence button, to silence the sounder strobe




		connected to the panel
05	Mute	Mute button, to mute the buzzer sound of the panel
06	Login	User login button
07	0~9, *, #	Used to enter numbers, letters and marks in the interface. In addition, the * button provides access to the LOGIN and LOGOUT windows in a non-text input state
08	◀ ▼ ▲ ▶	For switching, scrolling or moving the input cursor
09	OK	Select the option corresponding to the cursor
10	Tab	The cursor jumps to the different options in left-to-right, top-to-bottom order
11	Menu	Enter the menu screen
12	Backspace	Delete the character on the left of the cursor
13	Esc	Used to cancel a navigation step or exit the current menu
14		For selecting manual & auto mode / manual only mode

3.2.2. User Login Operations

The system divides the users into three levels according to the operation authority.

User Level	Description
Level 1	The default state of the system, i.e., the state without login, does not require a password.
Level 2	The password length is 4 characters. You can only view and operate the specified interface. Default Password : 2222.
Level 3	Password length is 8 characters. You are able to view and operate all interfaces. Default Password : 33333333.

3.2.2.1. Login Operation

- ✧ Press , and then the login window will pop out. (see Figure 3-2) Users can use  to switch to 'User level' to select the level, and then use  to switch to 'Password'

to enter the password. After the password is entered, use **TAB** to switch to **OK** button and press **OK** to login.

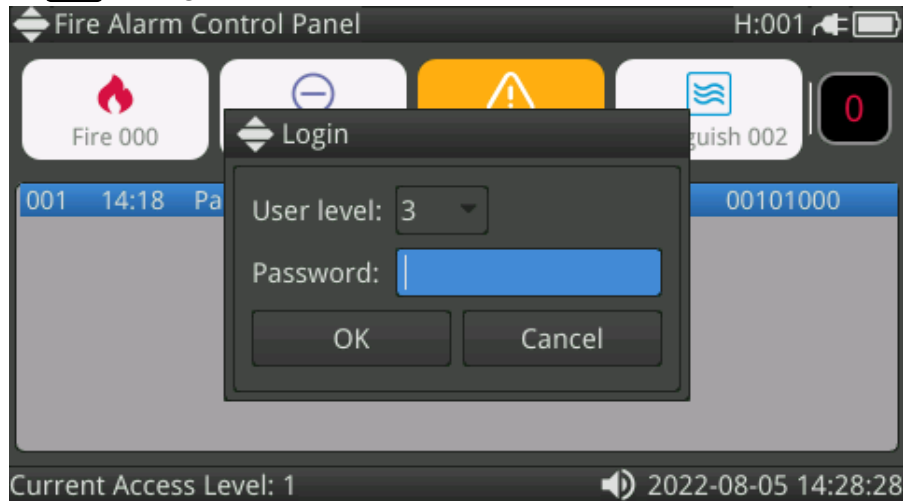


Figure 3-2 Password login window

NOTICE

- ❖ For confidentiality, the "*" sign will be displayed in the input box when any character is entered in the password input box. The maximum number of character for the password is 8. After logging in, the panel keyboard is turned on at the same time.

3.2.2.2. Logout

In login status, user press panel ***** key to bring up the logout window, use **TAB** to switch to **OK** button and press **OK** to logout.

4. System Configuration Details

4.1. Main Menu Operation Method

- ✧ Press the **▲** , **▼** or **TAB** keys to select the sub-menu **System**, **Loop**, **Operation**, **Records**, **Maintain**, **Extinguish**.
- ✧ Press the **OK** button to enter the corresponding sub-menu option interface to start each setting. The Main Menu interface is shown in Figure 4-1 below.

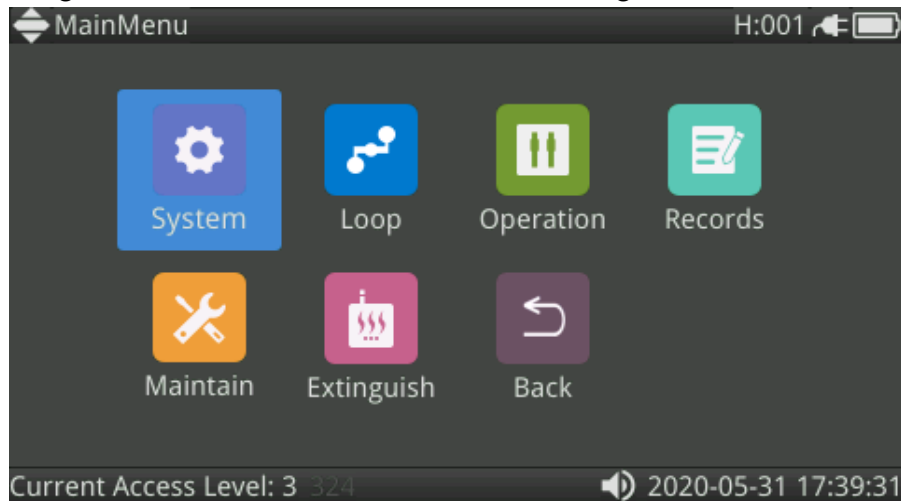


Figure 4-1 Main menu interface

4.2. System

Press the **OK** key to enter the setup System interface , System interface is shown in Figure 4-2 below.

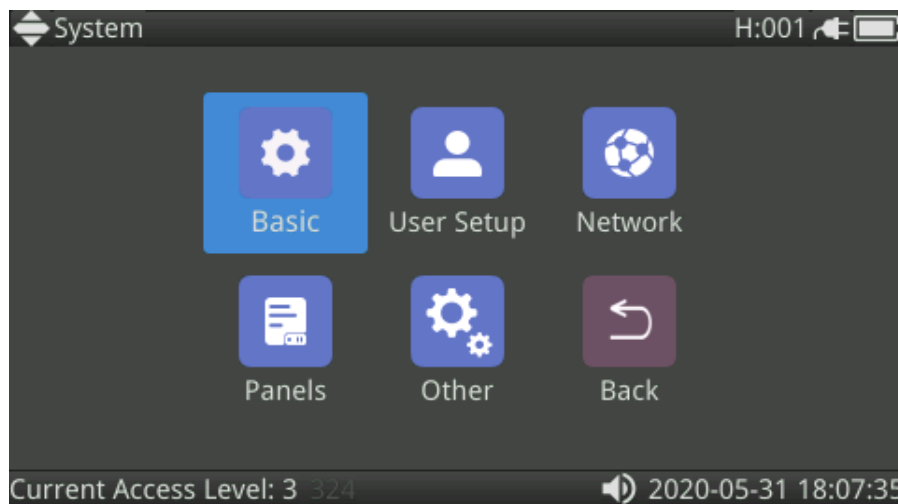




Figure 4-2 System interface

The system setting contains Basic, User Setup, Network, Panels, and Other.

4.2.1. Basic Settings

The basic configuration includes Panel Name, Language, System Date, System Time, and Screen Protect.

The default system name is "Fire Alarm Control Panel". Press the **TAB** key to switch

the cursor to the Panel Name column, then press the  key to bring up the input method, and press the  key again to switch the input method. Then enter the system name according to the selected input method. The interface for modifying the system name is shown in Figure 4-3 below.

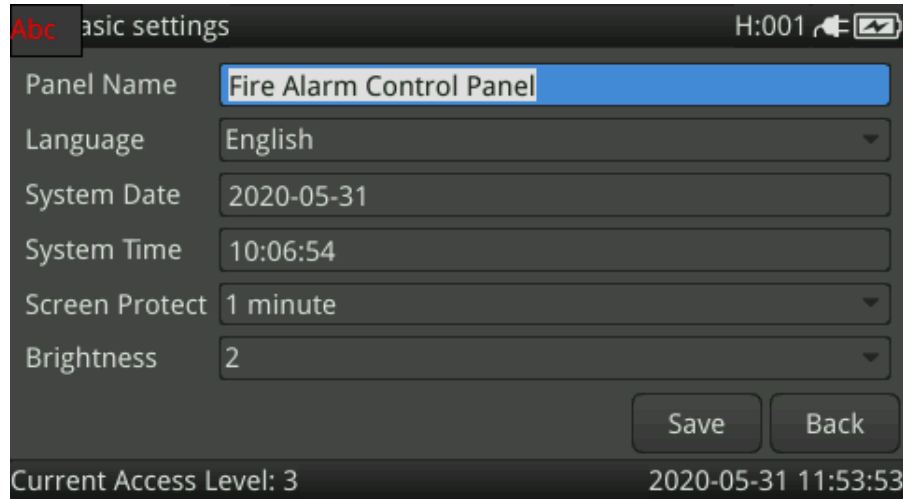




Figure 4-3 Modify system name

The default language is "English". Press  to move the cursor to the Language selection. Press  and  to switch between Chinese/English. The language setting is shown in Figure 4-4 below.

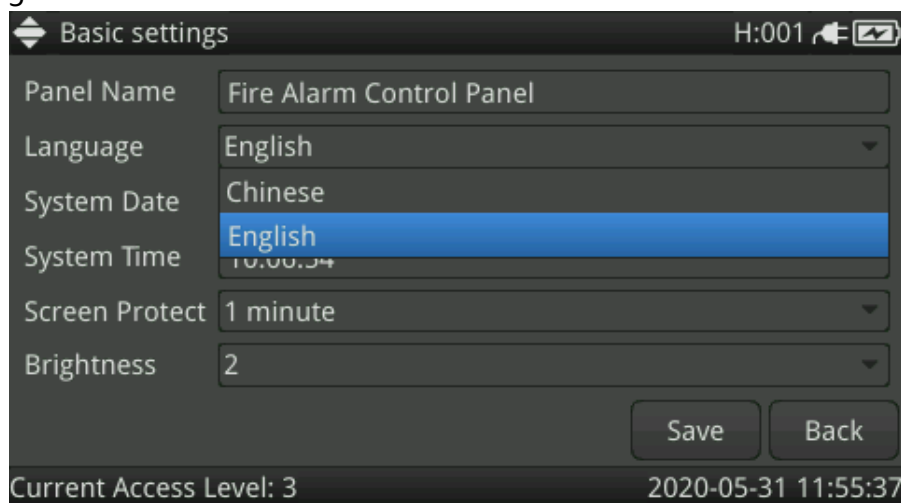




Figure 4-4 Switching system language

System Date, System Time are shown in Figure 4-5 below. The cursor switches to System Date/ System Time to enter the setting, The corresponding date/time digits can be incremented or decremented by pressing of the   keys, or the date/time can be entered directly through the numeric keys on the keypad.

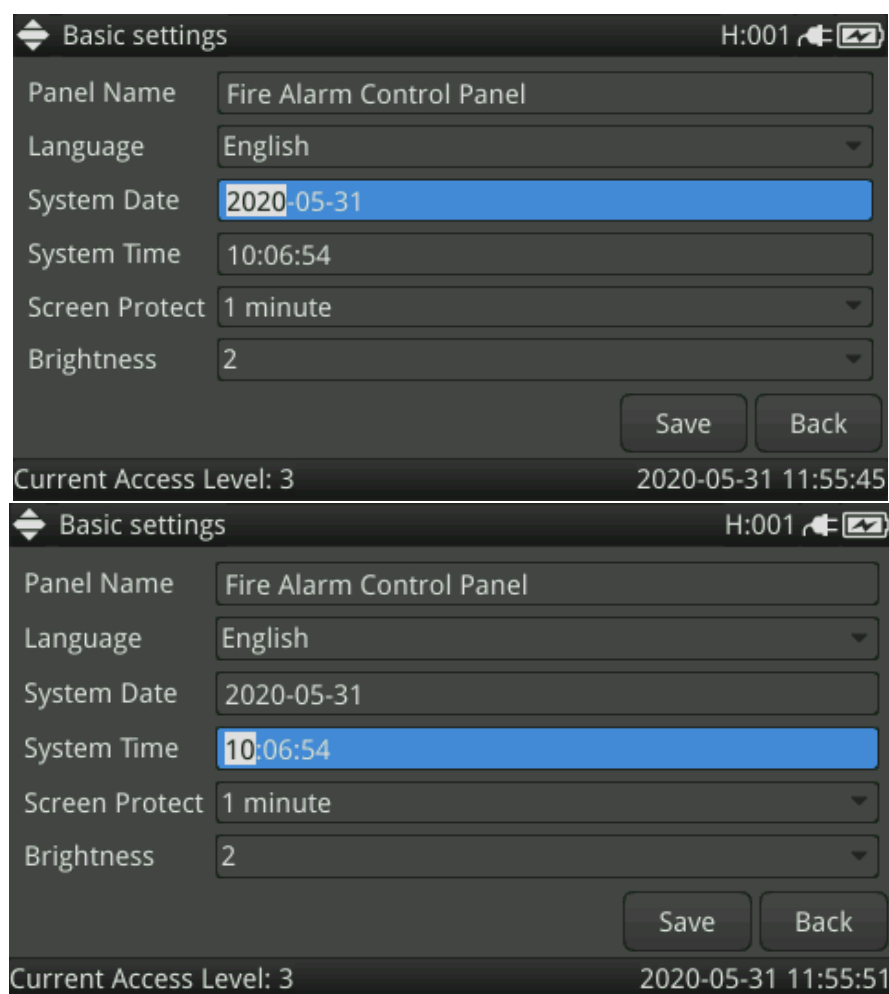


Figure 4-5 Date and Time Settings

Screen Protect setting is shown in Figure 4-6. Press the **TAB** key to switch the cursor to the Screen Protect bar, then press the **OK** key. press **▲** and **▼** to change the screen protect effective time option.

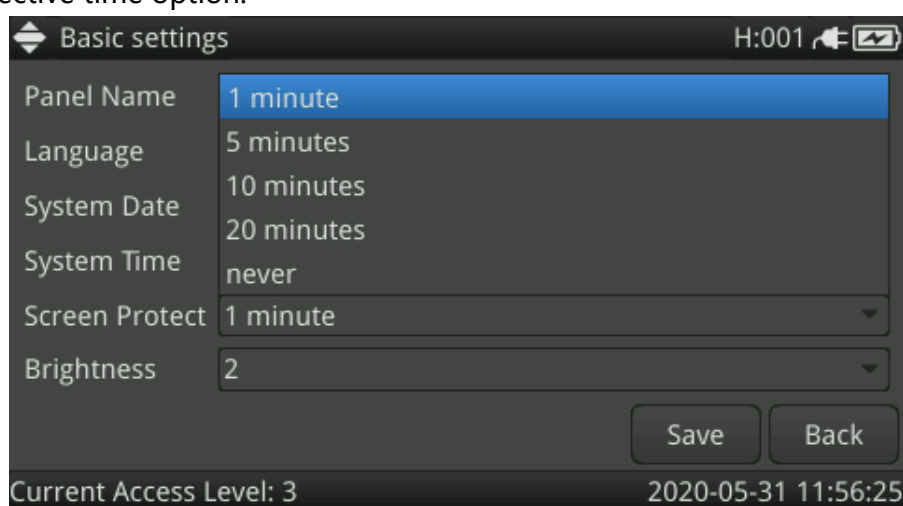


Figure 4-6 Screen Protect setting

Brightness setting is shown in Figure 4-7. Press the **TAB** key to switch the cursor to the Brightness column, then press the **OK** key to bring up the drop-down box, and press

the ▲ , ▼ key to set the screen brightness.

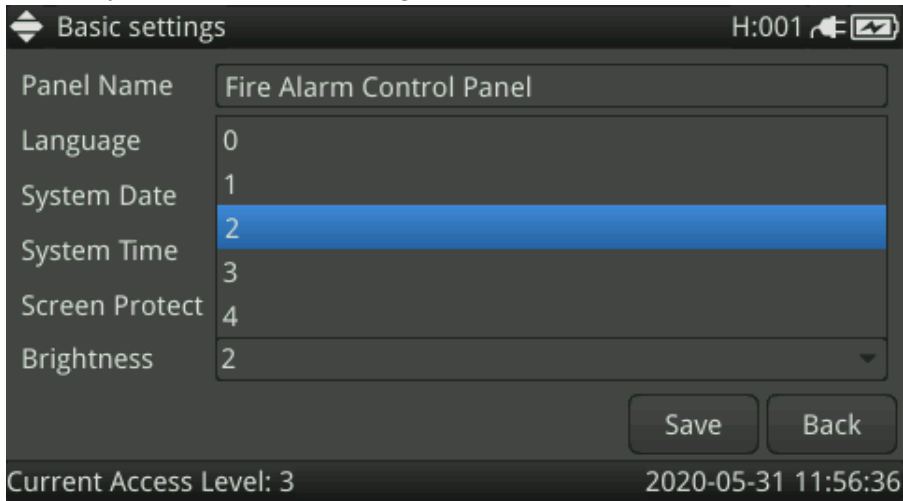


Figure 4-7 Brightness setting

4.2.2. User Settings

The User settings’ screen is shown in Figure 4-8 below.

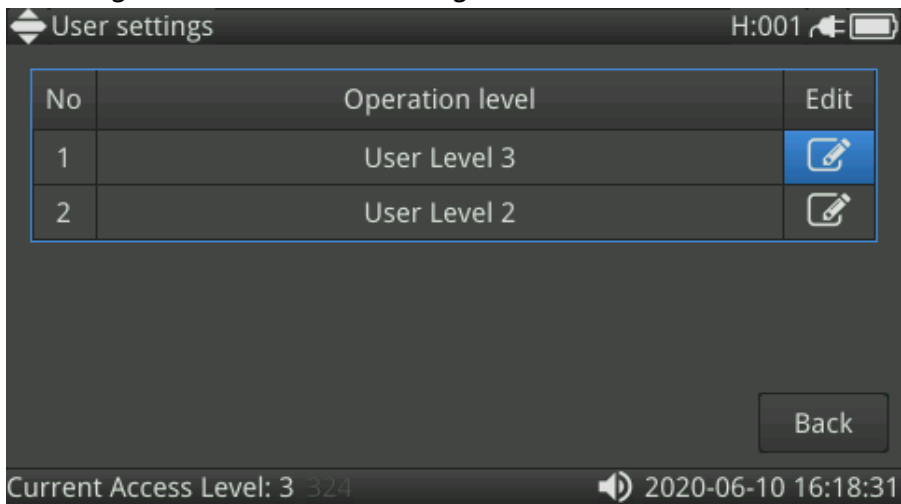


Figure 4-8 User settings interface

Switch the cursor to the Edit button of any user, and press OK to enter the modification interface; the user settings modification interface is shown in Figure 4-9 below.

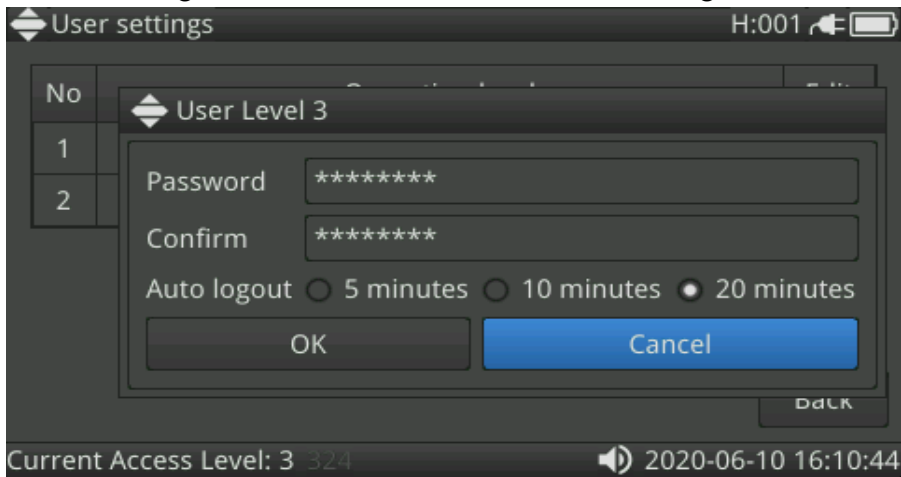


Figure 4-9 User settings modification interface

1) Password change: Password is made by the combination of numbers 0-9, the length of Level 2 password is 4 characters, the length of Level 3 password is 8 characters.

- ✧ Press the **TAB** key, the cursor jumps to the **Password** and **Confirm** edit boxes that need to be changed, press the numeric keys on the panel and enter the new password in both edit boxes.
- ✧ After finishing the setting, press **TAB**, the cursor jumps to **OK** button, then press **OK** to save and finish the setting. Or press **TAB**, the cursor jumps to the **Cancel** button, then press **OK** to cancel this modification operation.

4.2.3. Network Settings

You can set the host networking method in the network settings. When the configuration is finished, switch the cursor to **Save** button and press **OK** to save the setting. The network settings are shown in Figure 4-10 below.

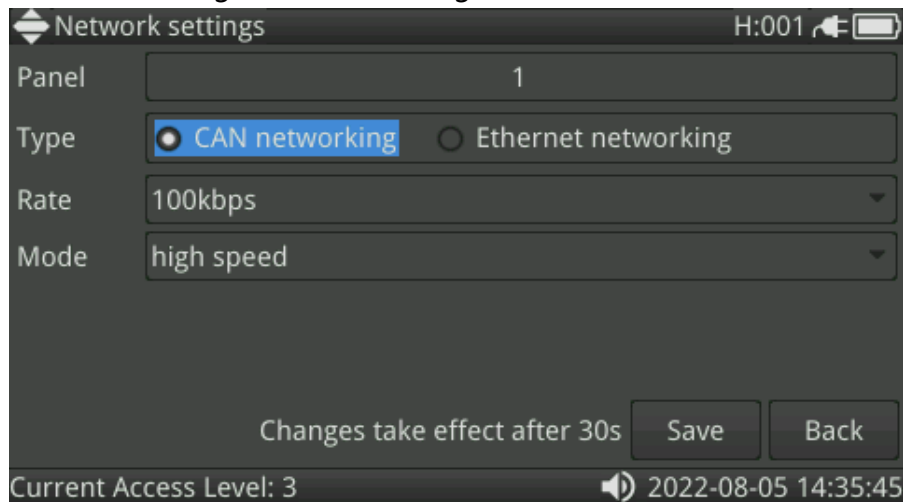


Figure 4-10 Network Setting Interface

Press the **TAB** ,let the cursor jumps to the **Panel** , then press **▲** or **▼** keys to change the local host numbers up or down, or press the panel numeric keys to input the numbers.

Press **TAB** , let the cursor jumps to the **Type** , then press **◀** or **▶** to select the networking type.

The following is a brief description of the CAN networking interface.

- ✧ Press the **TAB** key, let the cursor jumps to the **Rate** drop-down box, then press the **OK** key, and press the **▲** or **▼** keys up and down to select the desired rate, at last press the **OK** key to confirm the selection.
- ✧ Press the **TAB** key, let the cursor jumps to the **Mode** drop-down box, then press the **OK** key, and press the **▲** or **▼** keys to select High speed/Low speed mode up and down, at last press the **OK** key to confirm the selection.

The CAN networking setting interface is shown in Figure 4-11 below.

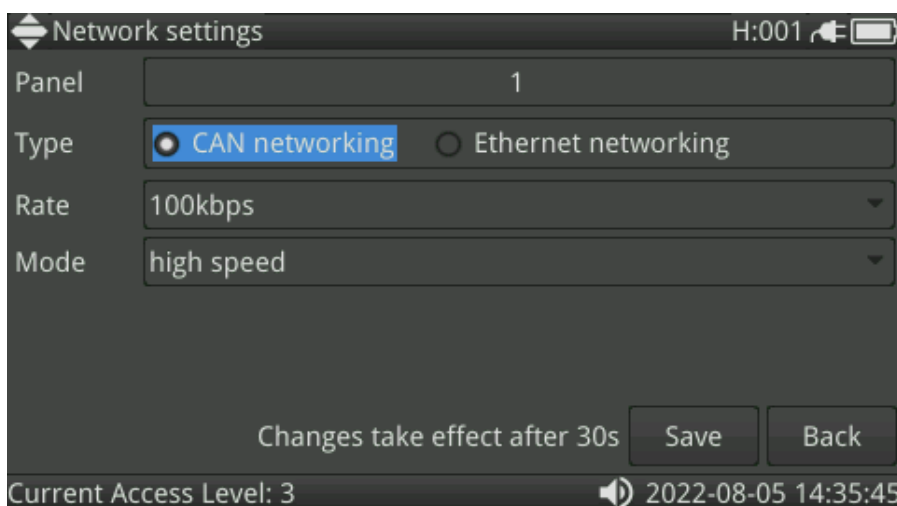


Figure 4-11 CAN networking setting interface

The Ethernet networking setup is similar to the above operation, and the Ethernet network networking setup interface is shown in Figure 4-12 below.

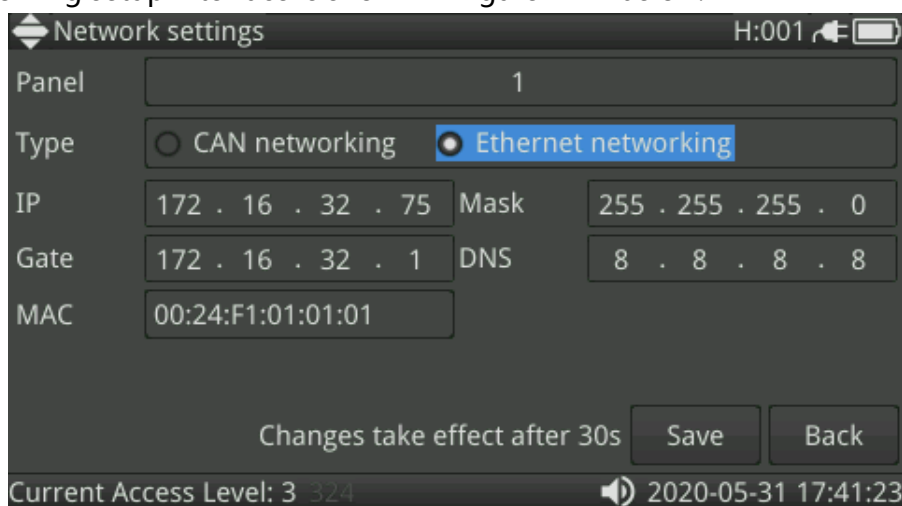


Figure 4-12 Ethernet networking setup interface

NOTE

- ❖ After the network configuration information is modified, it is important to re-power the product to be able to use it properly.
- ❖ All hosts in a networked system must be set to the same transmission rate! The networked transmission rate setting will not take effect until the hosts are power on!
- ❖ When hosts working at different rates are connected to the network, all hosts (including other hosts with the same transmission rate) cannot communicate normally. Therefore, in a multi-computer networked system, when resetting the transmission rate of hosts one by one, the network bus will not work properly during the setting process, and the system will return to normal when all hosts are set to the new transmission rate.

4.2.4. Panel Register

The slave panel can be registered and managed in the host registration screen. This interface displays the slave panel configuration in the form of a list, and the host registration interface is shown in Figure 4-13.

This system supports networking of control hosts. Since the linkage requires simultaneous transmission of fire alarm information to the master panel in the network, networking settings must be made. Only after the local slave panel registers to the master panel, the alarm information will be transmitted to the registered master panel. The reception of the fire alarm information is passive, and all received fire alarm information will be displayed.

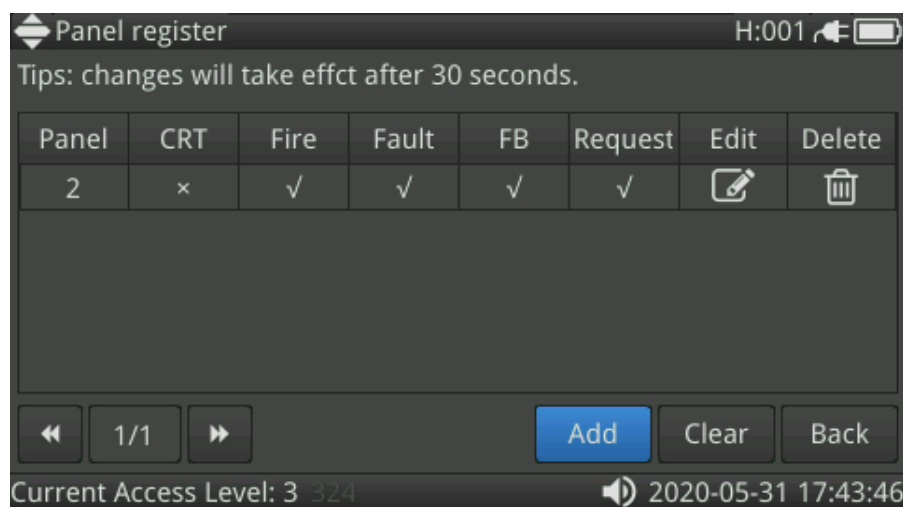


Figure 4-13 Host registration interface

1) Add host

- ✧ Press the **TAB** key, let the cursor jumps to the **Add** button, then press the **OK** key, the Add screen will pop up, as shown in Figure 4-14.
To add multiple hosts, press **TAB** and check the "Add multiple Hosts" option.
- ✧ Press the **TAB** key, let the cursor jumps to the **Host** input field, then press the number key and enter the host number.
- ✧ Press the **TAB** key, let the cursor jumps to the checkbox to check the type of alarm message to be synchronized.
- ✧ Press the **TAB** key, let the cursor jumps to the **OK** button, then press the **OK** key to add the host.

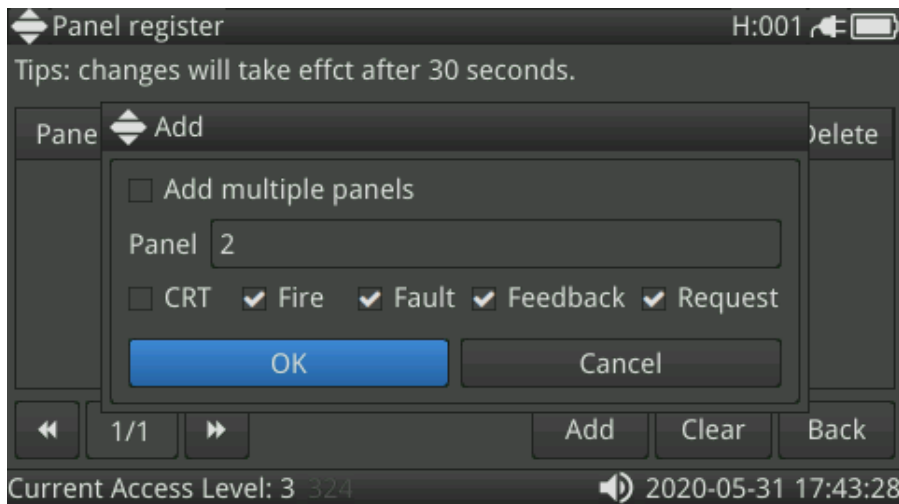


Figure 4-14 Add host interface

2) Edit Host

- ✧ Press the **TAB** key, let the cursor jumps to the **Edit** button, then press the **OK** key to bring up the edit page of this slave, as shown in Figure 4-15.
- ✧ Press the **TAB** key, let the cursor jumps to each checkbox to check or uncheck the type of alarm message reported by the slave.
- ✧ Press the **TAB** key, let the cursor jumps to the **OK** button, then press the **OK** key to save the edit settings.

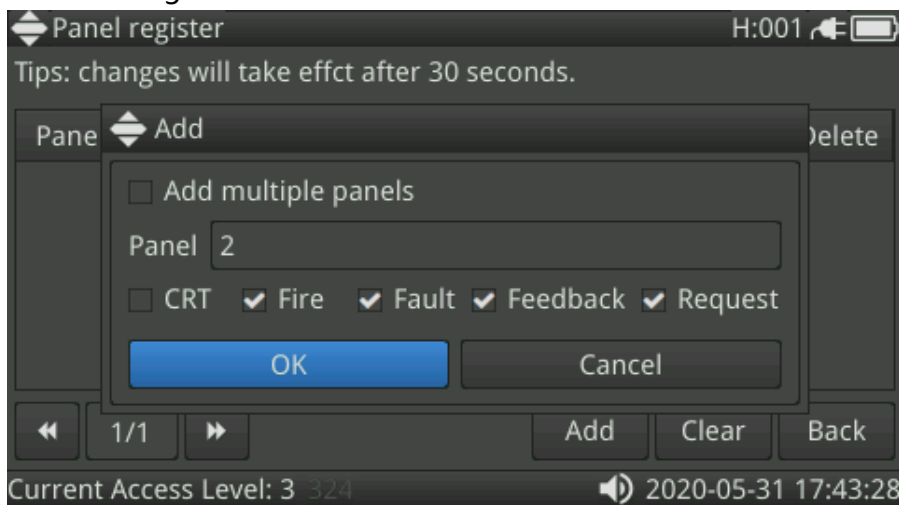


Figure 4-15 Edit Slave Interface

3) Delete the Slave Panel

- ✧ Press the **TAB** key, let the cursor jumps to the **Delete** button in the line, then press the **OK** key, the confirmation page will pop up, confirm and delete the slave panel.

4) Emptying the Slave Panel

- ✧ Press the **TAB** key, let the cursor jumps to the **Clear** button, then press the **OK** key to bring up the confirmation page, and then delete all slave panels in the list after confirmation.

NOTE

- ❖ When the network is connected, the time in the network is based on the time of the master panel (host 1). If the time of the master panel is modified, the time of all hosts in the network will be changed accordingly.
 - ❖ All networked hosts must be set to the same transmission rate, must know which hosts are in the network, and cannot have the same host number. When the slave panel is a CRT, the CRT needs to be checked in the settings.
-

4.2.5. Other Settings

Press the **OK** key to enter the Other settings screen, which contains Panel power, which is shown in Figure 4-16.

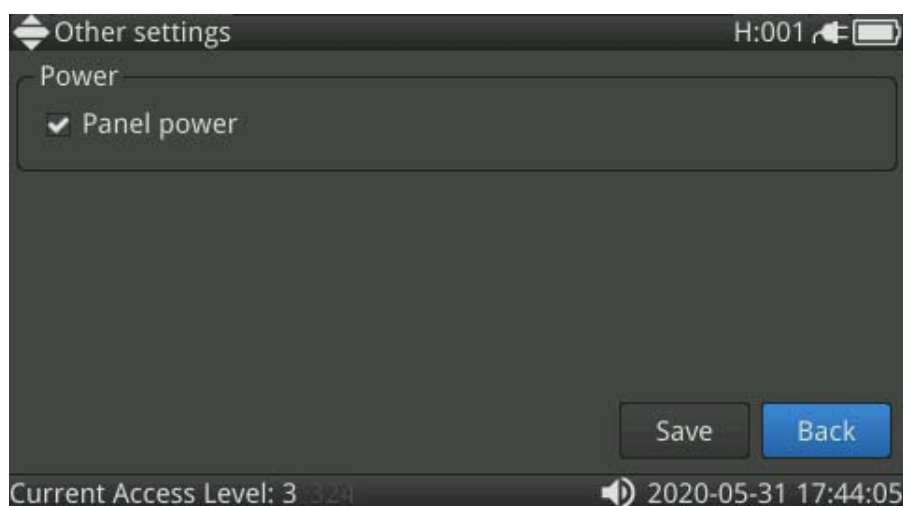


Figure 4-16 Other settings interface

(1) The system can monitor the power supply. If the host power supply is registered, the information of the backup power will be displayed; otherwise, the information of the backup power will not be displayed.

(2) To register the host power: press the **TAB** key to select "Panel power", then press the **OK** key "√", after that press the **TAB** key to switch the cursor to the **Save** button, at last press the **OK** key to save the setting and it will show "Save successfully ! "; press **TAB** to switch the cursor to **Back** button will keep the original setting and exit.

(3) Unless there is a special commissioning need, we do not recommend users to cancel the registration of the host power supply.

4.3. Loop

The bus setup screen is a key setup of this system and also a complicated one. The bus setting interface includes Convention dev setup and Remote Panel, and the bus settings are shown in Figure 4-17 below.

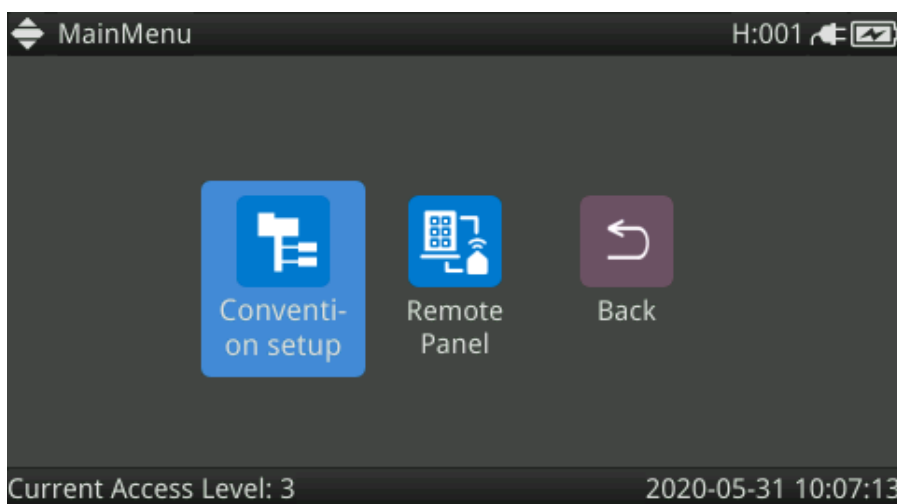


Figure 4-17 Bus Setup Menu Interface

4.3.1. Convention dev setup

The Convention dev setup screen is shown in Figure 4-18 below. Press **TAB** to select the Edit icon, then press **OK** to edit the zone1, zone2, and PROG.IN properties of the Convention dev. In the edit screen, press the **TAB** key to select the attribute you want to set, then press the **OK** key to enter the corresponding attribute setting, then press the **▲** or **▼** keys to select the corresponding attribute content, at last press the **OK** key to finish the setting. The property setting page is shown in Figure 4-19 below.

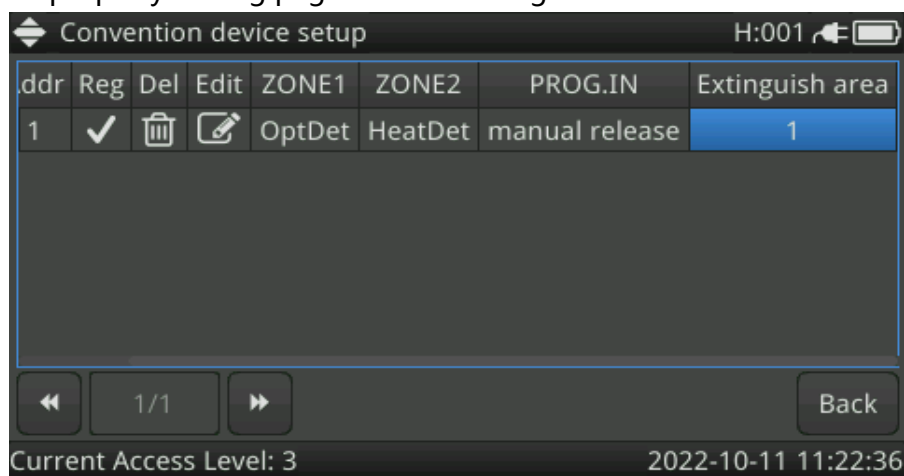


Figure 4-18 Convention device setup interface

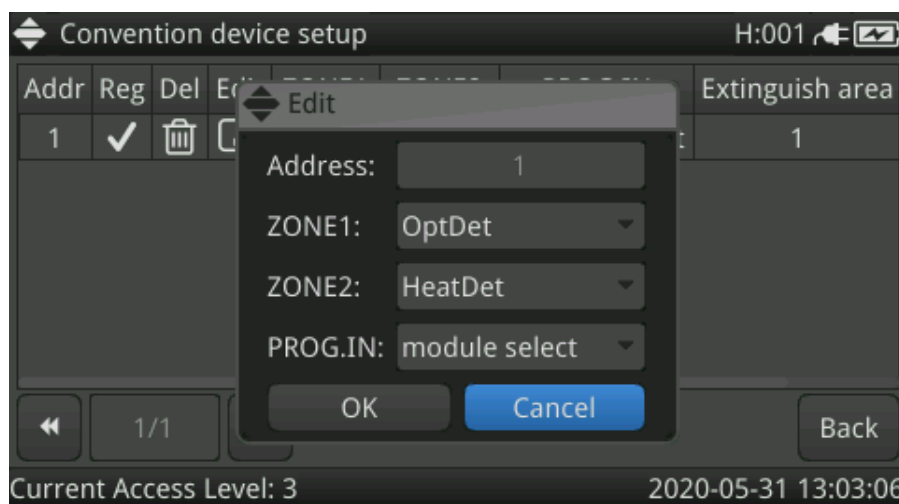


Figure 4-19 Property setting interface

4.3.2. Remote Panel

The remote status panel setting interface is shown in Figure 4-20.

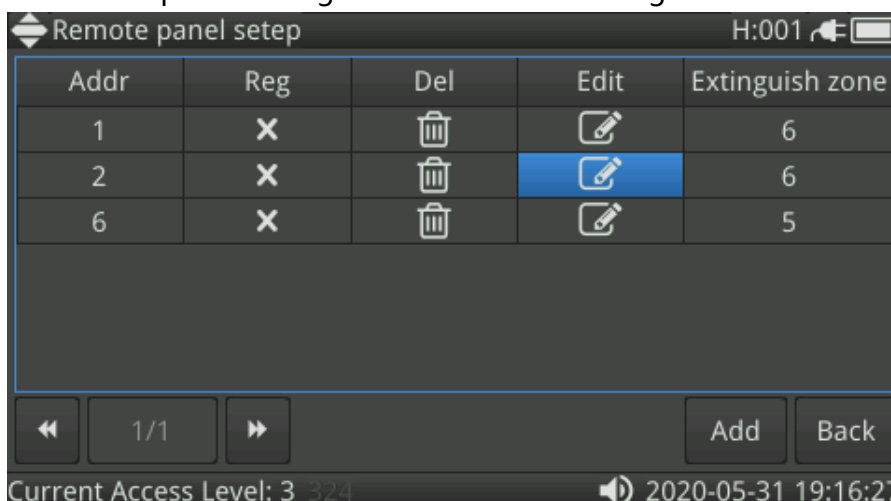


Figure 4-20 Remote status panel setting interface

Press **TAB** to move the cursor to the 'Reg', then press **OK**, if the icon turns to ✓, that indicates the remote status panel is registered, if the icon turns to ×, that indicates the remote status panel is unregistered. If you want to set the remote status panel to belong to the Extinguish zone, please press the **TAB** key to move the cursor to the 'Edit', then press the **OK** key to enter the Extinguish zone setting, and press the **TAB** key to move the cursor to the Extinguish zone, then enter the zone number of the Extinguish zone, at last move the cursor to the 'OK' button, then press the **OK** key to finish the setting. If you want to delete the corresponding remote status panel, just move the cursor to the 'Del' and press the **OK** key. The settings of the remote status panel are shown in Figure 4-21.

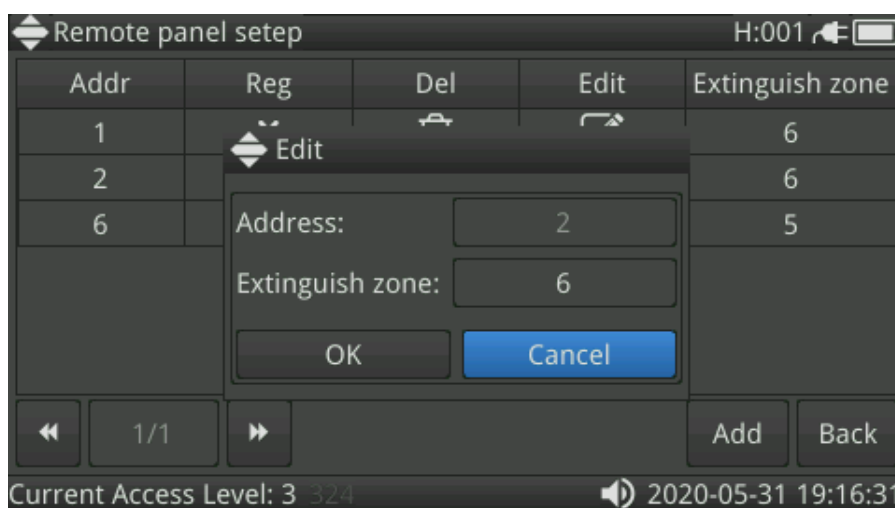


Figure 4-21 Setting the Remote status panel to the gas extinguishing zone

4.4. Operation

Operation screen, as shown in Figure 4-22 , it cotains Convention disable & Panel Test operation.

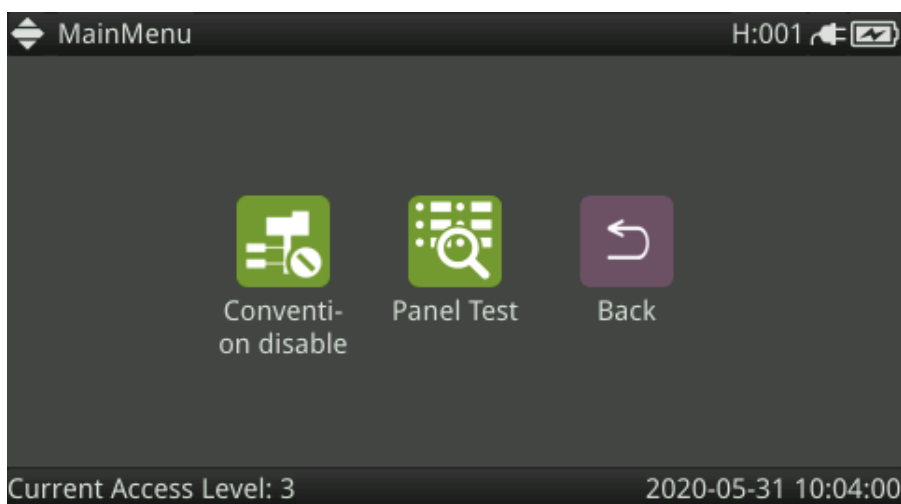


Figure 4-22 Operation interface

4.4.1. Convention disable

After entering the Operation interface, press the button **TAB** to move the cursor to Convention disable, then press the button **OK** to enter the Convention disable interface, which is mainly for disable the terminals on the terminal board, and can disable the ZONE1, ZONE2, S.C.OUT1, S.C.OUT2, Exting., Stage_1, Stage_2 terminal outputs and the Manual Release function. Select the option to be disable by pressing **▲**, **▼**, and then press the **OK**, when the corresponding option's Disable column is ticked, it means the item is disabled. As shown in Figure 4-23.

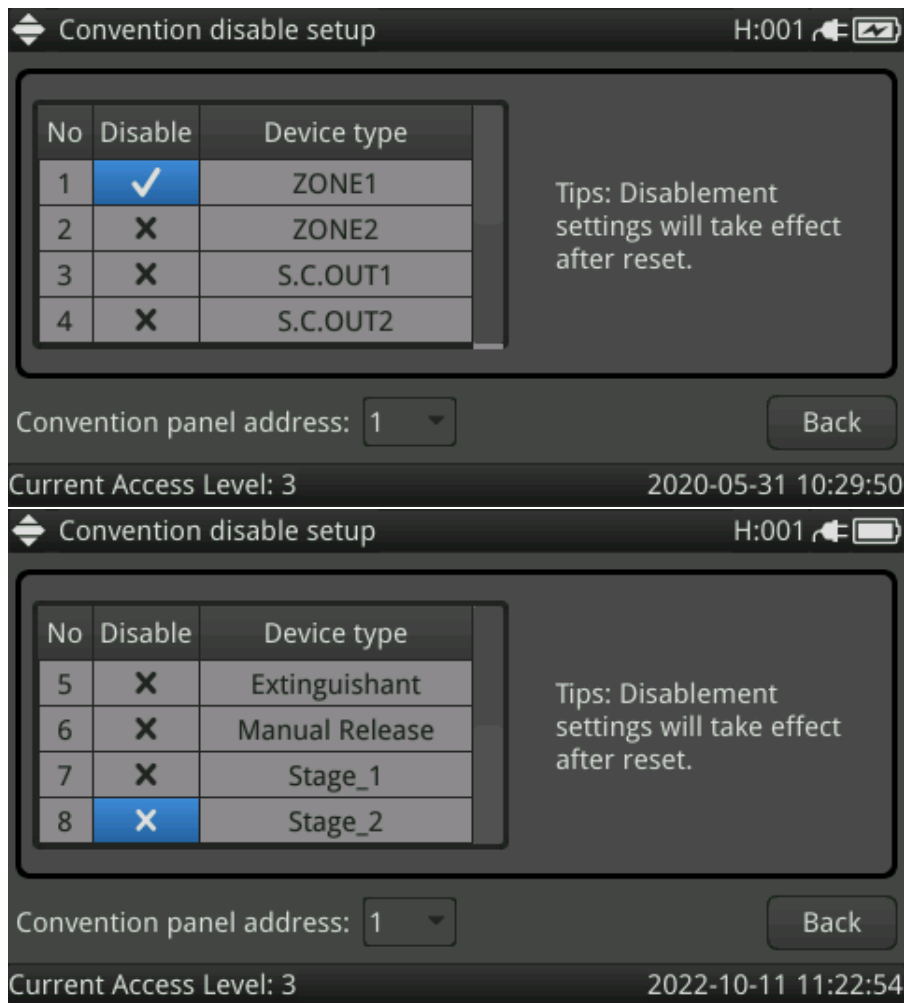


图 4-23 Convention disable setup interface

4.4.2. Panel Test

After entering the Operation screen, if you need to perform Panel Test operation, use Tab to stop the cursor on the 'Panel Test' icon, and then press the 'OK' button to perform Panel Test.

4.5. Records

In Records, you can check various historical information records of this system. The history record interface is shown in the figure.

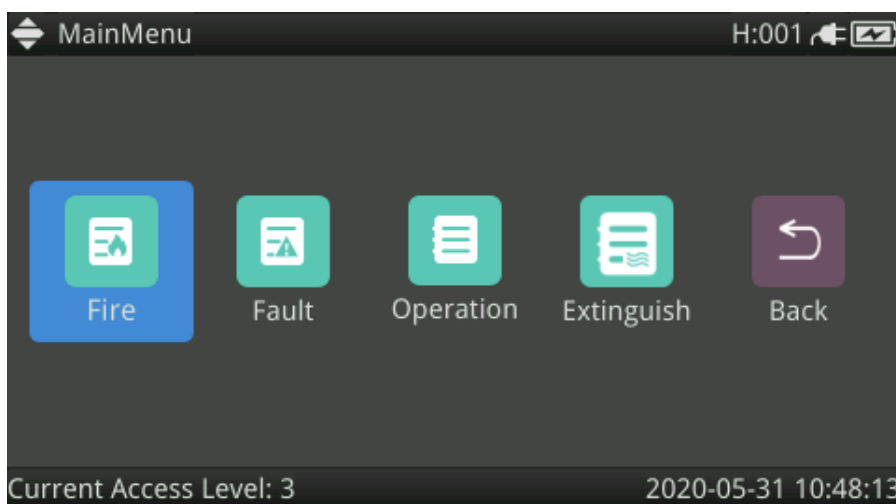


Figure 4-24 History screen

Each sub-item can access a maximum of 10,000 history records. When the total number of history information is greater than 10000, the system will automatically update and overwrite.

NOTICE

❖ The system saves the history in real time.

4.5.1. Fire Records

Check the latest 10,000 historical fire records, the format of fire record is shown below:

No.	Time	Device Type	Position	Debug Code
1	22-01-11 16:35:43	Manual poi	Zone2	00101018

The historical fire record screen is shown in Figure 4-25.

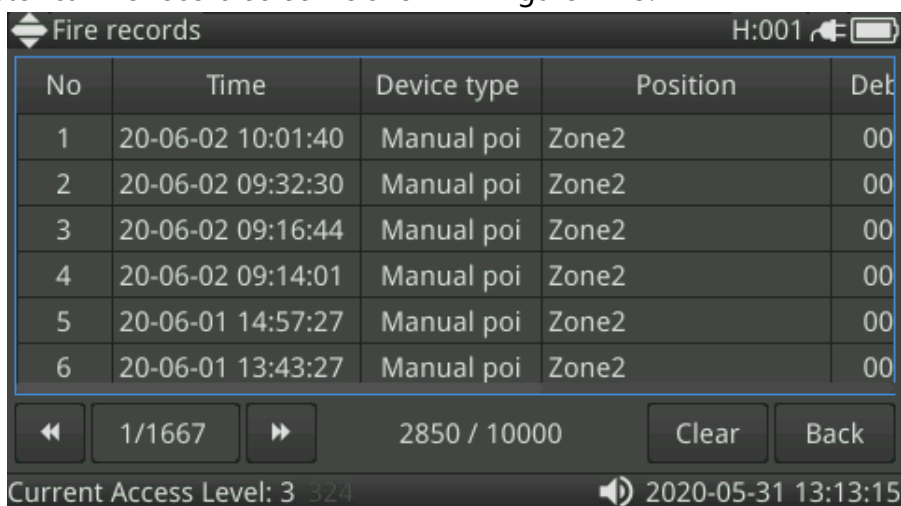


Figure 4-25 Historical fire record interface

Fire alarm records can only be viewed by page, and cannot be selected one by one. Short press **TAB** key to jump to the list of records, press **▲** or **▼** key to turn up and down the page; when there are more pages, you can enter the page number in the page number text box, press **TAB** to jump to the **→** button, then press **OK** to jump to the

destination page to view.

Press the **TAB** to jump to the **Clear** button, then press the **OK**, the system pops up a prompt box, select 'OK' to clear all fire alarm records.

4.5.2. Fault Records

Check the latest 10,000 historical fault records, the format of fault record is shown below:

No.	Time	Content	Debug Code
1	22-01-11 16:36:43	Power Num 2 Communication fault	00100002

The history fault log screen is shown in Figure 4-26.

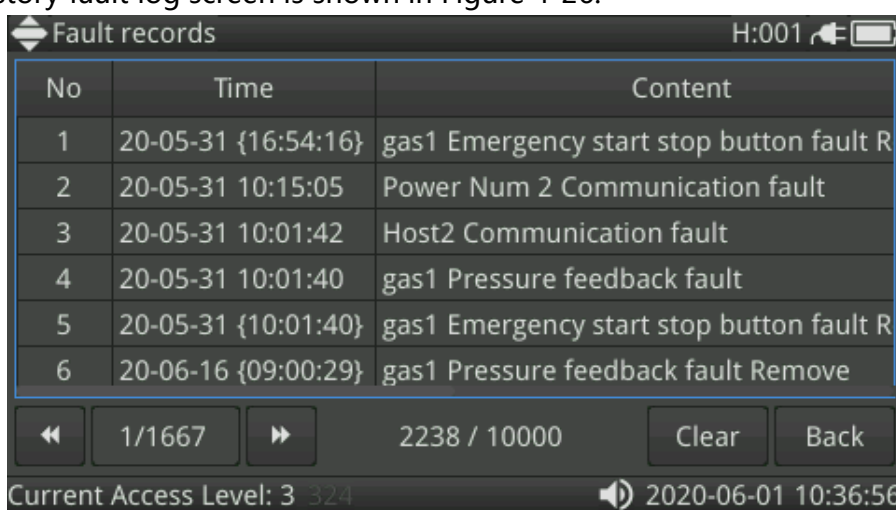


Figure 4-26 Historical fault record interface

Fault records can only be viewed by page, and cannot be selected one by one. Press **TAB** to jump to the list of records, press **▲** or **▼** to turn up and down the page; when there are more pages, you can enter the page number in the page number text box, press **TAB** to jump to the **→** button, then press **OK** key to jump to the destination page to view.

Press the **TAB** to jump to the **Clear** button, then press the **OK**, the system pops up a prompt box, select 'OK' to clear all the fault records.

4.5.3. Operation Records

The contents of operation records include: login, logout, blocking, silencing, and other operations of all users on this system. This sub-section could check the latest 10000 historical operation records, the format of operation record is shown below:.

No.	Time	Operation	User
1	22-01-11 16:22:58	History fault	User Level 3
2	22-01-11 16:56:09	History linkage	User Level 3

The history operation record screen is shown in Figure 4-27.

No	Time	Operation	User
1	20-06-01 10:36:54	History fault.	User
2	20-06-01 10:36:50	History linkage.	User
3	20-06-01 10:36:42	History linkage.	User
4	20-06-01 10:36:30	History fire.	User
5	20-06-01 10:27:37	Loop auto login.	User
6	20-06-01 10:18:03	Test over.	User

Navigation: < 1/1667 > 10000 / 10000 Clear Back

Current Access Level: 3 2020-06-01 10:37:07

Figure 4-27 Historical operation records interface

Operation records can only be viewed by page, and cannot be selected one by one. Press **TAB** to jump to the list of records, then press **▲** or **▼** to turn up and down the pages; when there are more pages, you can enter the page number in the page number text box, press **TAB** to jump to the **→** button, then press **OK** to jump to the destination page to view.

Press the **TAB** to jump to the **Clear** button, then press the **OK** , the system pops up a prompt box, select 'OK' to clear all the operation records.

4.5.4. Extinguish Records

The deflation record is mainly used to record the whole extinguish process, and the format of each operation message is shown as follows.

No	Time	Content
1	20-05-31 10:59:12	Extinguish area 01 is releasasing
2	20-05-31 10:59:12	Extinguish area 01 countdown to release begin

The extinguish record screen is shown in Figure 4-28.

Extinguish records			H:001	
No	Time	Content		
1	20-05-31 10:59:12	Extinguish area 01 is releasing		
2	20-05-31 10:58:57	Extinguish area 01 countdown to release t		
3	20-05-31 10:00:41	Extinguish area 01 control state [AUTO&M		
4	20-05-31 10:00:41	Extinguish area 01 control state [AUTO&M		
5				
6				
<div> <div>◀</div> <div>1/1667</div> <div>▶</div> <div>4 / 10000</div> <div>Clear</div> <div>Back</div> </div>				
Current Access Level: 3			2020-05-31 11:34:26	

Figure 4-28 Extinguish record screen

The extinguish records can only be viewed by page, and cannot be selected one by one. Press **TAB** to make the cursor jumps to the record list, then press **▲** , **▼** key to turn up and down the page; when there are more pages, you can input the page number in the page number text box, press **TAB** to make the cursor jumps to **→** button, then press **OK** to make the cursor jumps to the destination page to view.

Press **TAB** to make the cursor jumps to Clear button, then press **OK** , the system pops up the prompt box, and select OK, then it will clear all operation records.

NOTICE

- ❖ Without special circumstances, users are not recommended to clear the records. Because history records are important information needed for system maintenance, history records are recorded in a cyclic way, and the latest 10,000 records are always saved, so there is no problem of exceeding the storage capacity and being unable to record.

4.6. Maintain

Maintenance menu screen is shown in Figure 4-29.

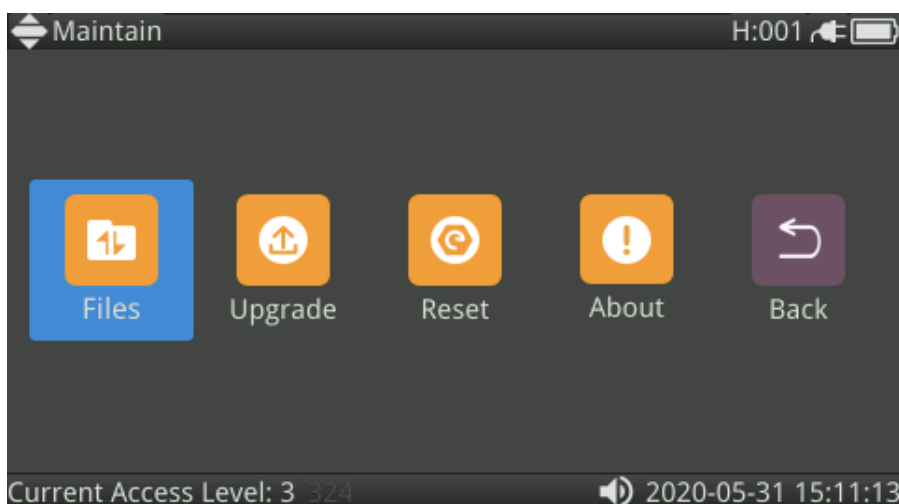


Figure 4-29 Maintenance menu interface



- ❖ Maintenance operations are for system commissioning and maintenance purposes only, and are allowed only for Level 3 users. Therefore, when logging in as someone other than Level 3, the Maintenance menu button is not displayed.

4.6.1. Files Import and Export

The file import and export interface is shown in Figure 4-30. This interface allows for the import of configuration information and the export of record files.

Before starting the operation, you need to insert the U-disk into the USB port. The U-disk is a standard device, and the system provides a standard USB port. Before using the U-disk, please format it on a standard personal computer using a USB flash driver reader.

Press the **TAB** and the cursor jumps to the **Redetect disk** button. Then press the **OK** and the system will start testing the USB disk.

- ❖ If the U-disk is not inserted correctly, the interface will show "plug and unplug the disk,try again".
- ❖ If the U-disk is properly connected, the system will automatically detect the configuration file in the USB drive.

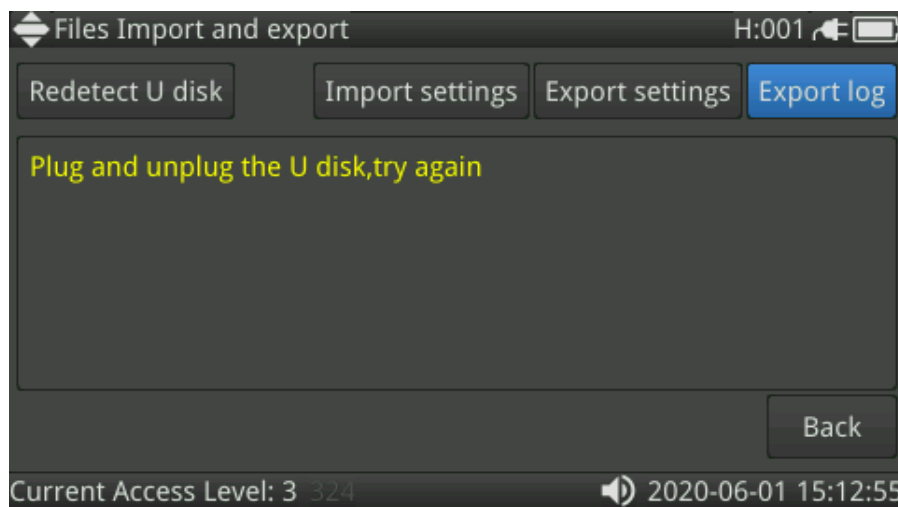


Figure 4-30 File import and export interface

4.6.1.1. Import Settings

This operation downloads the configuration file from the U-disk to the system host.

When the U-disk is inserted correctly, the configuration file will be detected automatically. Press the **TAB** to make the cursor jump to the **Import settings** button, then press the **OK**. The host will automatically find all the system files adapted to this host, and then copy them to the data flash of this host. Since the settings data of this host will be

overwritten, this operation needs to be done carefully.

After the configuration file is imported, the system will prompt as follows. And the system will automatically reboot after the prompt, no need to operate at this time, just wait for the system to reboot.



❖ **Notice:** that the system must be reboot after importing for the newly imported data to take effect!

4.6.1.2. Export Settings

This operation exports the system's configuration files and log files.

After the U-disk is inserted correctly, press the **TAB** to make the cursor jump to the **Export settings** button and press the **OK** to backup the system data to the U-disk. The remaining capacity of the U-disk used for data backup should be at least 2M.

The interface will indicate the files currently being processed. When all the data is processed, the system will indicate that the export is successful, and the whole process will take about 5 seconds.

4.6.2. Upgrade

Switch to the version upgrade screen, insert the U-disk with the correct upgrade file, press the **TAB** to make the cursor jump to the **Upgrade mainboard**, then press the **OK** to perform the upgrade. For example, insert the U-disk with the "*.bin" format file and click the **Upgrade mainboard** button to upgrade the motherboard software. The mainboard upgrade interface is shown in Figure 4-31.

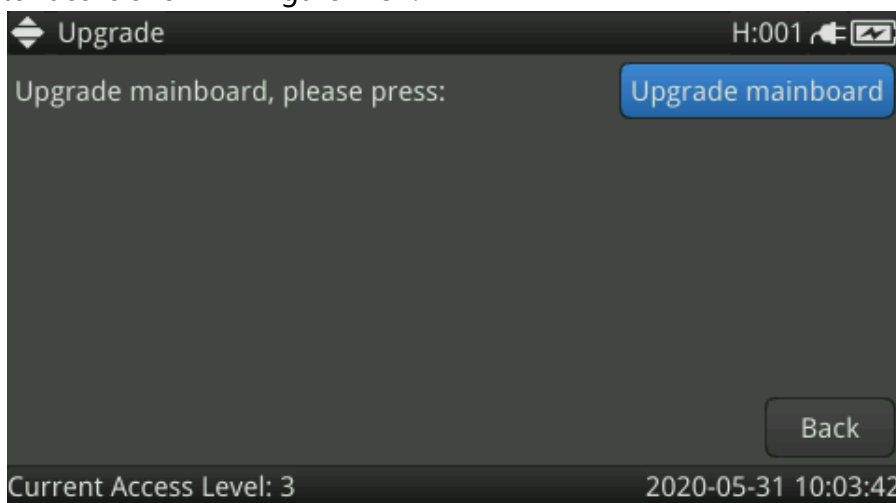


Figure 4-31 Mainboard upgrade interface

4.6.3. Reset

The reset interface is shown in Figure 4-32 below. In this screen, you can clear all system settings and reset the device. Performing this operation will cause all data to be lost, so reset operation is a dangerous operation.

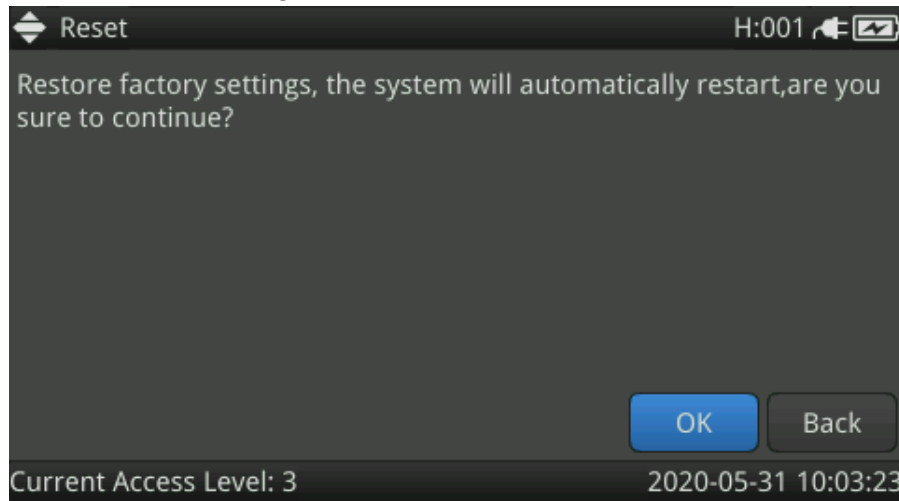


Figure 4-32 Reset interface

4.6.4. About

The About interface is shown in Figure 4-33. The About interface shows the software version and company information of the panel. The figure shows that the current software version is V2.0, and the system can be upgraded on site. Our company will continuously improve the system and add new functions, and is responsible for the real-time version upgrade of the projects with which we have maintenance contracts.



Figure 4-33 About the interface

4.7. Extinguish

Press the **TAB** to make the cursor jump to the **Extinguish Setup**, and press the **OK** to

enter Extinguish Setup. The Extinguish Setup interface is shown in Figure 4-34 below.

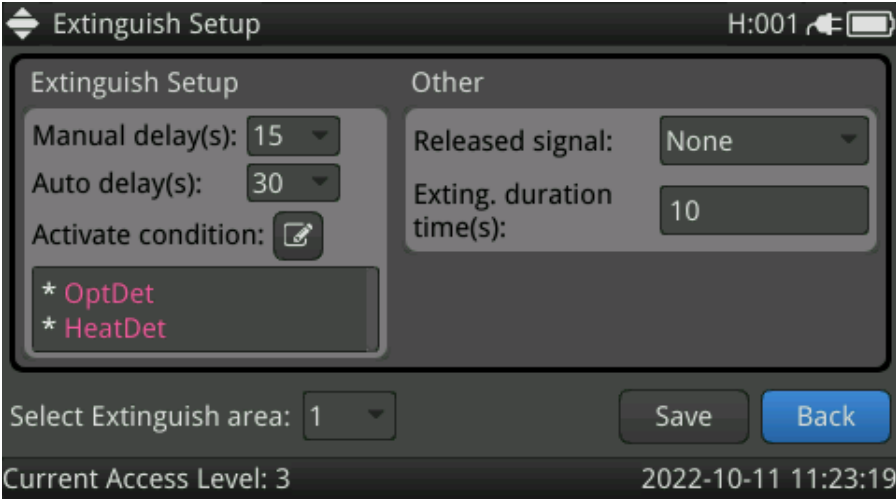


Figure 4-34 Extinguish Setup interface

Manual delay time setting: press **TAB** to make the cursor jump to Manual delay(s) button, then press **OK** to select the time. The manual delay time setting is shown in Figure 4-35 below.

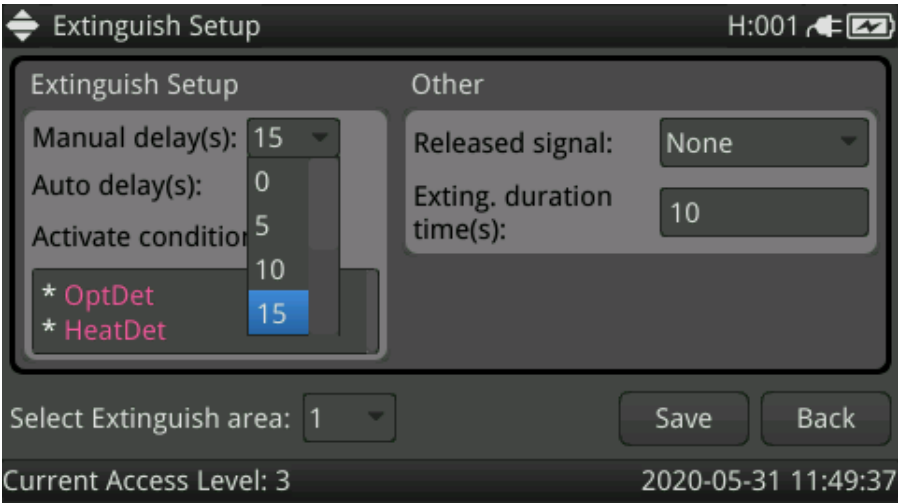


Figure 4-35 Manual delay setting interface

The operation of auto delay setting is shown above.

Auto release C&E condition selection: press the **TAB** to make the cursor jump to the edit icon in the line of Activate conditions, then press the **OK** to make the auto release C&E condition selection, the interface is shown in Figure 4-36 below.



Figure 4-36 Auto release linkage condition selection interface

Press the **TAB** to make the cursor jump to the drop-down box of Device type, and press the **OK** to select the device type by **▲** or **▼**, then press the **TAB** to move the cursor to the '+' icon, and press the **OK** to finish adding the linkage device. If you want to remove a device type, please press **TAB** to move the cursor to the box below the Device type, then press **▲** or **▼** to move the cursor to the device you want to remove, then press **TAB** to move the cursor to the '-' icon, and press **OK** to remove the corresponding device type, at last press **TAB** to the Save button, and press **OK** to save the content you just set.

The setting of gas release confirmation method: Make the cursor jump to the drop-down box in the column of Release signal by pressing **TAB**, then press **OK**, and select **▲** or **▼**, after the selection is finished, please press **OK** to complete the setting. The setting of the release confirmation method is shown in Figure 4-37 below.

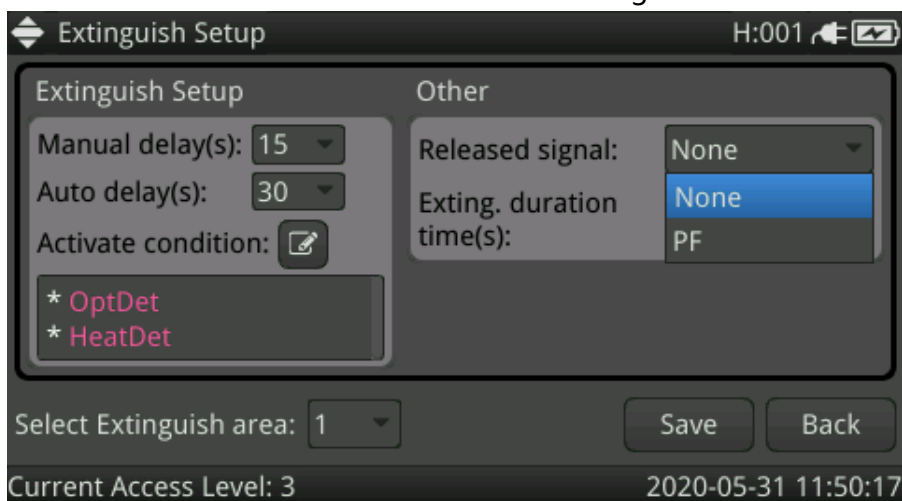


Figure 4-37 System auto-state linkage and Solenoid drive time(s) setting interface

Exting. duration time(s) setting: Press **TAB** to jump the column of Exting. duration time(s), and then enter the time to be set by the numeric keys. the Exting. duration time(s) setting is shown in Figure 4-38.

Extinguish Setup H:001

Extinguish Setup	Other
Manual delay(s): 15	Released signal: None
Auto delay(s): 30	Exting. duration time(s): 10
Activate condition:	
<ul style="list-style-type: none">* OptDet* HeatDet	

Select Extinguish area: 1

Save Back

Current Access Level: 3 2020-05-31 11:50:28

Figure4-38 Exting. Duration time(s) Settings

5. Alarm Function

5.1. Fire Interface

When a fire occurs in a zone, the Fire alarm interface will display fire alarm information. The fire alarm interface is divided into brief information and detailed information, the default display is the brief information, such as the fire situation in a fire zone (the number of fires in the fire zone / the number of device in the fire zone). Select the specified brief information and press the **OK** to view the detailed information, the label shows the number of current fire alarms. Display the first fire alarm information above the Fire icon. The Fire interface is shown in Figure 5-1.

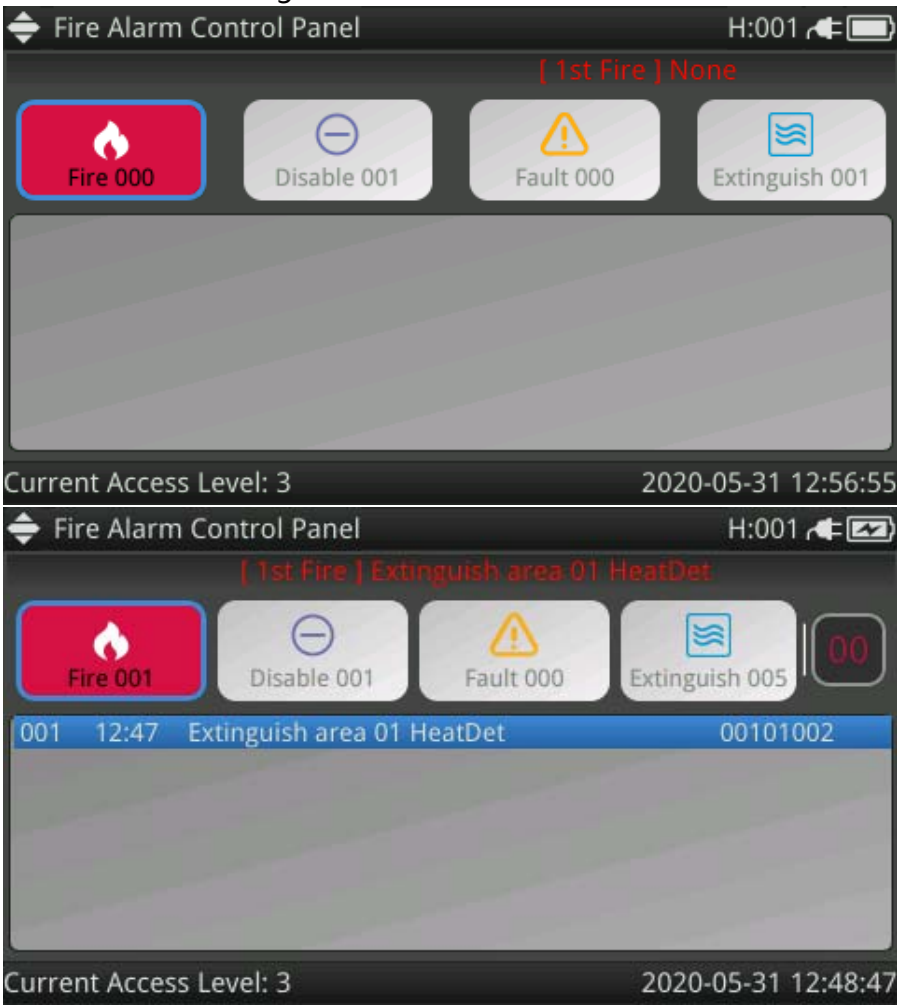


Figure 5-1 Fire interface

5.2. Disable Interface

The Disable interface is similar to the Fire interface. You can view the events that are disabled by pressing the **TAB** to move the cursor on the Disable icon. The Disable interface is shown in Figure 5-2 below.



Figure 5-2 Disable interface

5.3. Fault Interface

The Fault interface is similar to the interface described above, in which you can view the fault data and the specific fault type.

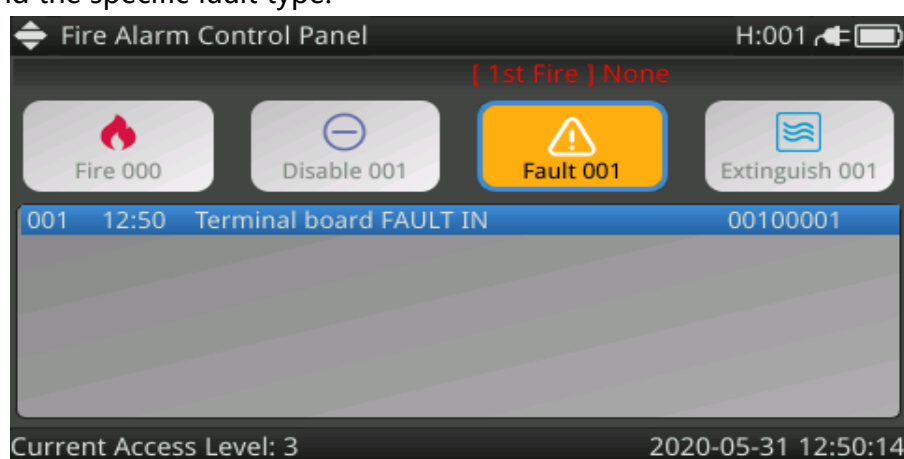


Figure 5-3 Fault interface

5.4. Extinguish Interface

When the gas release condition is reached, the alarm page of the host computer will perform a gas release countdown display, and you can check the specific gas release status in the Extinguish interface. The Extinguish interface is similar to the interface above. The Extinguish interface is shown in Figure 5-4 below.



Figure 5-4 Extinguish interface



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Statement: This manual has been carefully checked to ensure that the content is correct, and it will be updated with the product upgrades. The manual subject to change without notice, please refer to the actual product and ask our company for the latest version free of charge. Shenzhen HTI Sanjiang Electronics Co., Ltd. has the final right of interpretation and modification!