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Fire Alarm Hub

User Manual

WIFI+GSM/3G+GPRS

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1 Summary

1.1 Instruction

For all the items which have illustrated in this user manual：

- Item with icon, only valid for the item with the wifi module.
- Item with icon, only valid for the item which is connected to the local monitoring center and opened the GPRS service.

1.2 Features

• 4.3" TFT color screen, full touch operation keypad, simple style of man-machine interaction interface。

• Main interface status bar, state magnetic paste, date&clock real-time display, host status is clear at a glance

• Built-in powerful 32 digit Cortex-M3 CPU

• Multi assignment operation system design, with excellent user performance experience

• Wi-Fi/GSM/3G/GPRS network alarm, support multi channel alarm method like app pushing, SMS, voice monitoring, alarm center control etc. , ensure that the alarm is stable and reliable.

• Support SMS remote arm/disarm and parameter setting, support voice channel arm/disarm。

• Support up to 90 learning locations for remote controller/ wireless detector.

• Support 8 wired zones.

• Support main gate, hall, SOS, bedroom, window, balcony, perimeter, smoke, gas, co, water leaking etc. zone name setting.

• Support main power failure, backup power shortage, tamper alarm and other extended alarm.

• Support wireless detector low voltage, anti-demolition alarm function。

• Door / window open notification while arming。

• Support in/out arm zone, internal arm zone, perimeter arm zone, 24 hours arm zone, doorbell arm zone and other zone setting.

• Support 5 groups preset alarm phone numbers, can set the SMS open/close, dialing open/close separately

• External wired siren connector, 1 channel Normally open/close relay linkage switch

• Arm/disarm Timer function.

- Support saving and searching for multiple daily operation log and alarm record.
- GSM/WiFi network automatic timing, ensure that the time is accurate.
- Support multi-language display, voice notification and alarm SMS setting.
- Support 20 seconds message recording and voice alarm.
- Phone function, support 5 groups redial numbers.
- Support electrical/gas fire monitoring function

- Friendly app operation experience and user interface, can get the latest working status anytime.
- User arm/disarm, host alarm will be pushed to app。
- Support APP remote arm/disarm, parameter setting, parts management and intelligent socket control。

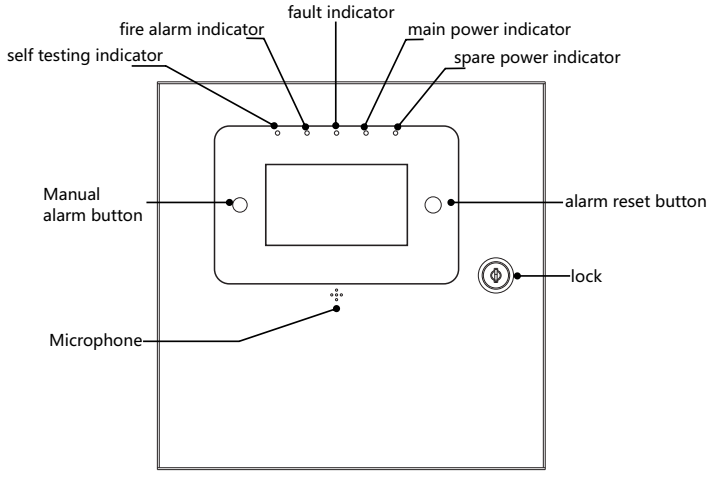
- GPRS real-time online, can get the working status at any moment, alarm automatically while offline
- Reserved GPRS TCP/UDP protocol channel, compatible with multiple network alarm center protocol, convenient for network alarming.
- Center remote control。

1.3 Daily operation words

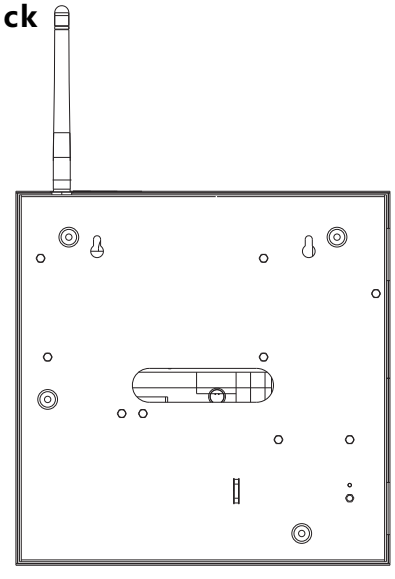
- Arm : Arrangement of security prevention tasks（burglar alarm），make the host get into the warning status，also can be called defense setting, warning or start operation.
- Stay arm：when user at home, only need to set the defense of the entrance and the perimeter, also called home arm。
- Disarm：cancel the security task (burglar alarm)，also call arm canceled or arm stopped.
- Zone Trigger：in the arm status, when the detectors detected door/window opened or human beings activities, then caused the alarm task.
- Arm Delay ： in arm status, the delay time setting can avoid the alarm caused by user who left the arm zones. The delay time setting, also called the delay arm.
- Enter Delay： when user gets back to the arm zones while triggerring the detectors, the hub will not alarm immediately, will give some time for user to disarm. The host will only alarm when overtime, this is also called “alarm delay”.
- Alarm：when the hub receives an alarm, the strobe siren will work, will push the SMS to preset phone numbers and dial the preset numbers, push the SMS to mobile app and transmit the message to alarm center etc.

2 Hub outstanding and parts

2.1 Hub front

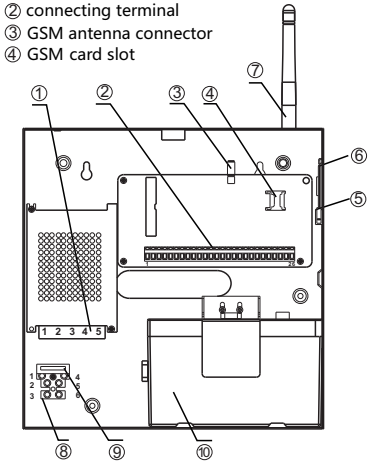


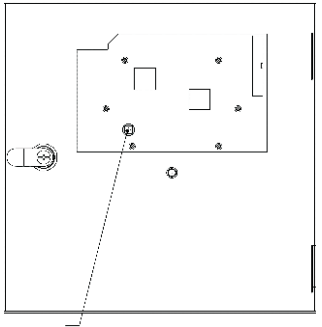
2.2 Hub back



2.3 Hub internal structure

① Main power
② connecting terminal
③ GSM antenna connector
④ GSM card slot





On/off/initialization button

⑤ SIM card
⑦ RF antenna
⑨ fast fuse
⑤ speaker
⑧ AC cable connecting terminal
⑩ spare battery

2.4 On/off/initial button

Function	method
on	Push this button, while show" Welcome" means host start successfully
off	push this button for 3 second, till the screen turn off
initialization	Push for 5 times, hub will restart means initialization successful (invalid at lock status)

2.5 Panel SOS button

Pushing this button at emergency, will cause the local strobe alarm, push the alarm SMS to mobile app, send SMS and dial the preset telephone numbers, and will transmit the alarm messages to the network monitor center.

2.6 Panel recovery alarm button

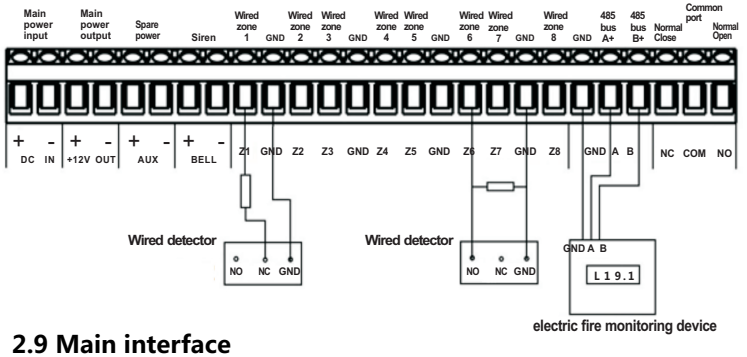
Pushing this button at alarm status, will turn off the local strobe alarm, system gets into disarm, send the disarm SMS to preset phones, send the disarm message to the monitor center.

2.7 Panel indicator

indicator	status	Function instruction
Main power indicator	on	Main power works properly
	twinkle	Main power fault, the fault led indicator lights on, AC power failure, main power cable short circuit or power supply damaged
Spare power indicator	on	Spare power works properly
	light & twinkle	Spare power fault, fault indicator lights on, spare power short circuit or without the spare power.
	twinkle	Lower power of spare power, the fault indicator will light on
Fault indicator	on	Fault happened
	off	No fault
Fire alarm indicator	on	Fire alarm happened
	off	No fire alarm
Self testing indicator	on	Hub self-testing
	twinkle	Fault communication between the hub and the fire detector

2.8 Cable connecting terminal

While install the hub, please refer below cable connector diagram:



2.9 Main interface

Main interface function and button instruction

Top status bar	1	4	GSM status		No SIM card or faulty insert
					GPRS network status
					GSM network field strength
					Full grey means no network, 1~5means the strength leve
		5	WIFI network		1~4 means the wifi strength level, full grey means no wifi signal
					Device already connected with the cloud, the small dot at the bottom right corner means already bounded with the mobile
		6	GSM task status		Sending the messages
					Dialing the phone numbers
		7	Keypad lock status		Keypad locked, 5 seconds countdown showing before locked
		8	Power supply status		Main power works
					Spare power works, 0~3 means the remaining power strength, red color means lack of power
		9	clock	00:04	Current time
Main status and function button bar	2	10			Current date and week
		11	Dial button		Push and dial the numbers
		16	Menu button		Push and getting into menu setting
		12	Arm button		Push and arm system
		13	Intelligent socket		Push the intelligent socket
		17	Stay arm button		Push and stay arm system
		18	Disarm button		Push and disarm system
		14	Arm/disarm log button		Push and search the arm/disarm record
			Arm/disarm status		Arm status
					Stay arm status
					Disarm status
		15	Arm log button		Push for searching the arm/disarm record
			Alarm status		No alarm
					Alarm status, will show the zone numbers while the zones alarm
Bottom status bar	3	00:04			Current time
		"left scene" count down bars			Delay out status, users need to leave the scene before the count down finished, will get into the arm status when finished
		"disarm, please" Count down bar			Enter into the delay, user should leave the scene before the count down finished, will trigger alarm if do not disarm before finished
		Screen close button			Push and turn off the screen

2.11 Menu Structure

Main Menu	System Setting	Delay	Exit Delay	Set exit delay value, refer to the daily operation words
				Unit: second, scope: 0~65535；**Default：40 seconds**
			Enter Delay	Set entry delay, refer to the daily operation words
				Unit: second, scope: 0~65535；**Default：30 seconds**
			Siren Duration	Set siren duration
				Unit: minute, scope: 0~65535；**Default：3 minutes**
		Switch	Arm Beep	Set the arm/disarm beep for external siren
				Scope: on/off, default: off
			Siren	Set alarm beep for internal/external siren
				Scope: on/off, default: on
			Arm SMS	Set SMS notice for arm/disarm
				Scope: on/off, default: off
			Keypad Lock	Lock or unlock keypad(1)
				Scope: on/off, default: off
			Backlight	Open or close keypad backlight(2)
				Scope: on/off, default: on
			Keypad Tone	Open or close keypad tone
				Scope: on/off, default: on
			Delay Tick	Delay tick notice for enter and exit delay
				Scope: on/off, default: on
		Password	System Password	Set system password
				Scope：0000~9999；**Default：6666**
			User Password	Set user password
				Scope：0000~9999；**Default：1234**
		Language(3)	简体中文	Set language to simplified Chinese
			English	Set language to English
			Deutsch	Set language to German
			РУССКИЙ	Set language to Russian
			Español	Set language to Spanish
			Polski	Set language to Polish
			Italiano	Set language to Italian
			Français	Set language to French
			Português	Set language to Portuguese
		Initialization	System Initialization, Function&description are same as: System Initialization	

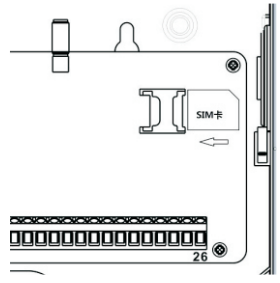
Main Menu	Phone Management	1st phone	Group 1 alarm phone number&dial switch, SMS switch		See as: Phone number setting
		2nd phone	Group 2 alarm phone number&dial switch, SMS switch		
		3rd phone	Group 3 alarm phone number&dial switch, SMS switch		
		4th phone	Group 4 alarm phone number&dial switch, SMS switch		
		5th phone	Group 5 alarm phone number&dial switch, SMS switch		
	log Searching	Alarm Log	Alarm log & event record		
		Arm Log	Arm/disarm log searching		
	Parts	Remote Controller	Add/delete remote controller		See as: Remote controller add/ delete
		Detector	Add/delete wireless detector		See as: Wireless detector add/ delete
		Wired Defense Zone	Wired defense zone name/ type		See as: wired defense zone name/type setting
		RFID	Add/ delete RFID		See as: RFID add/delete (**Function not available at present**)
		Siren Learning	Add external wireless siren		See as: external wireless siren pairing
		Alarm Socket	Add alarm socket		
		Socket Timer	Smart socket timer on/off setting		
	Wi-Fi Setting	Airlink	WiFi	Control panel get into WIFI wireless network airlink status(need the mobile app to work together)	See as: Mobile app with the hub airlink&unbind
		Unbind	WiFi	Unbind the mobile app with the control panel	
		MAC/IP	WiFi	Get the Wi-Fi MAC&IP address	
	Record	Record and Playback	Record and playback		See as: Record management
		Play	Play the current record		
		Delete	Delete the current record		
		Duration	Set the record duration		Scope: 1~20 seconds；Default: 20
	Timer	Arm Timer	Arm timer timer&on/off setting		See as : Arm/disarm Timer
		Disarm Timer	Disarm timer timer&on/off setting		
		Time zone and Sync	Set the time difference between the local time with the Greenwich time		
		Date & time	Panel time manual setting		
		Wi-Fi Sync	Set if the time sync with the WIFI		scope：**on/off；default：on**
		2G/3G Sync	Set if the time sync with the 2G/3G network		scope：**on/off；default：on**
	Version	Search the wifi firmware, MAC address, 2G/3G firmware, 2G/3G module IMEI number, panel firm ware, and panel serial number.			

1. Keypad lock open: at the main interface, no pushing within 30 seconds or push , directly to lock the keypad. After keypad locked, user need to enter the password for future more operation.
2. Keypad backlight closed: at the main interface, no operation for 30 seconds or push , directly, panel backlight will be closed to save the power.
3. When certain language is selected, then the operation voice reminder, display text and alarm SMS all are converted to this language. The alarm panel will restart when language selection is confirmed.

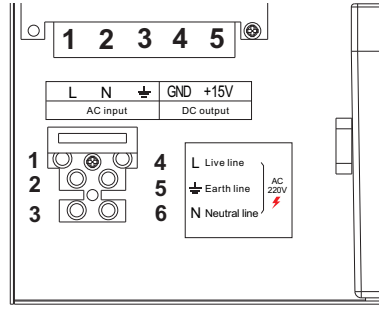
3 Initial Use

3.1 Start

- **Insert SIM card:** According to below diagram, insert MICRO SIM card into the card slot. Note: If it is a Nano SIM card, you need to add a card holder.



- **Power on:** Connect the 220V AC power to the corresponding AC terminal on the main unit, and then power on. The terminal 5 is connected to the ground wire, the terminal 4 is connected to the live wire (L), and the terminal 6 is connected to the neutral line(N).



- **Turn on the alarm panel:** Press Power On/Off key, a “welcome” window appears, then the alarm panel is turned on.
- **Turn off the alarm host:** Press and hold Power On/Off key for 3 seconds until the screen is off, the the alarm panel is turned off

3.2 System initialization

Continuously press Power On/Off key for 5 times, the alarm panel will restart, then system initialization is finished. After system initialization, all the data including remote control, wireless detector, RFID card, language and time zone and other setting are reset to factory default. IP address is also cleared and the alarm panel is offline GPRS. The IP address needs to be set again to assure the alarm panel to go online and connect with intranet center.

Please be cautious to use this function. Normally it is only used when user forgets password, or alarm panel malfunction, or the parameter is wrongly set, or unknown detector/ remote control /RFID card are learned. This operation is invalid in the lock screen state.

3.3 Menu operation

*This product is designed with a resistive touch screen, which is operated by clicking the screen button by pressure sensing .

*For functions not mentioned in this chapter, please refer to the description of function in the menu .

*Some functions described in this chapter include phone number setting , remote controls adding/ deleting , wireless detectors adding/deleting, and external wireless siren pairing etc. can be realized on mobile app under wifi network.

3.4 Phone number setting

The hub can set up to maximum 5 groups of alarm numbers, each set of number can be set independently of their dial-up switch and SMS switch.

Take phone number 1 as an example:

- Operation keyboard：Main menu →phone→1st phone，enter phone number setup menu.
- Press input and edit the alarm number (up to 18 digits)
- Press to turn on/off dial function, if turn it on, alarm panel will dial the alarm phone number when alarm happens.
- Press to turn on/off SMS function. If choose to turn it on, alarm panel will send SMS alarm push to this SMS number.
- Press to confirm，**panel prompts "set ok"**.

3.5 Add/delete remote controller

- Operation keyboard：Main menu →Parts →Remote，enter remote control setup interface.
- Press or to turn pages，the list will display all paired remote controller.

Add new remote controller

- Press alarm panel will display "please trigger accessories"，and then start 20s countdown time.
- Press any key on remote controller to transmit a wireless signal to alarm panel
- The control panel displays "Learning ok" means pairing successful. Then after the list shows the paired remote control

If the control panel displays "This accessory has been paired"，it means that the remote controller has been learned or duplicated with other learned detector. Please try another remote control.

Delete

- Click ，delete the corresponding remote control。
- Click ，delete all remote control

3.6 Add /delete wireless detector

- Click: Menu→parts→Detector,enter the interface of detector setting
- Click or to turn page，the list will display all the paired detector

Add new detector

- Click host will get into the interface "Set name/Mode/Number"
- Click , choose the match zone name for detector to be paired

- Click , choose the match zone type for detector to be paired。

Choose **"Stay arm active"**。Then, after the host is armed or stays armed, this type of detector is triggered and will alarm. It is recommended that detectors in the main door, windows, balconies, and perimeter areas use this type.

Choose **"Out arm active"**。Then, after the host stays armed, the type of detector is triggered and will not alarm. This type is recommended for detectors in interior areas such as halls and bedrooms.

Choose **"24 hour active"**。If the detector is triggered at any time, it will alarm. It is recommended to use this type of detectors such as emergency, smoke, gas, carbon monoxide and water leakage.

Choose **"close"**，Then the detector will be triggered at any time and will not alarm. For wireless doorbell, please choose **"doorbell"**. it will note "dingdong" anytime while be triggered

- Click , Enter and edit the zone number of the wireless detector to be paired. It is strongly recommended that zone numbers not be repeated with other detectors。
- Click , Confirm that the host displays "Please trigger the accessory" and it will get into the dialogue for 20 seconds count down to wait wireless detector send signal.
- If the host display" Learning OK" ,means the detector pair successfully,it will list all the name, type ,No and address code of paired detector
- If the host display "Device code has been learned" ,means the detector has been learned or repeated with the code of the other learned remote control,try other detector again

Delete

Click ，delete the corresponding detector。

Click ，delete all the detector。

3.7 Wired zone name/Type setting

The host supports up to 8 wired zones, and each zone can independently edit the zone name and zone type.

The zone number of the wired zone is fixed in the 90~97 zone, and the number of the wired zone is not modifiable.

Take the wired zone 1 as an example**:**

- Click: Menu→parts→wired zone→wired zone 1,enter the wired zone setting interface.
- Click , Select the name to be set for wired zone 1。
- Click , choose the match zone type for detector to be paired。

Choose **"Stay arm active"**。Then, after the host is armed or stays armed, this type of detector is triggered and will alarm. It is recommended that detectors in the main door, windows, balconies, and perimeter areas use this type.

Choose **"Out arm active"**。Then, after the host stays armed, the type of detector is triggered and will not alarm. This type is recommended for detectors in interior areas such as halls and bedrooms.

Choose **"24 hour active"**。If the detector is triggered at any time, it will alarm. It is recommended to use this type of detectors such as emergency, smoke, gas, carbon monoxide and water leakage.

Choose **"close"**，Then the detector will be triggered at any time and will not alarm.For wired doorbell, please choose **"doorbell"**. it will note "dingdong" anytime while be triggered

3.8 Add /delete RFID tag

- Click: Menu →parts →RFID，enter the RFID setting interface.
- Click  or  to turn page，it will display all the paired RFID in the list 。

Add new RFID tag

- Click  the host displays “Please trigger the accessory” and it will get into the dialogue of triggering RFID within 20 seconds count down time.
- Put the RFID card close to the sensitive area of the alarm host.
- The alarm host displays "Learning OK", then the RFID card is added.

If the alarm host displays “Device code has been learned”，it means this RFID card is already added to this alarm host.

Delete

- Click  ，delete the corresponding RFID card.
- Click  ，delete all RFID card.

3.9 Add wireless siren

The instruction take PE-519 as the example:

- Click: Menu →parts, enter the parts setting interface.
- Press and hold the SET button of the wireless siren, and immediately release it when you hear two beeps. The siren indicator flashes quickly to indicate the status of the code.
- Click the siren code button  ，in control panel menu，The control panel prompts "The code signal has been sent" and sends a wireless signal to the siren.
- The siren sends a long and a short beep to indicate that the code is successful.

 After the wireless siren and the host are successfully paired, the alarm will sound when the host has an alarm.

3.10 Wireless alarm linkage

Add smart socket

- Click: Menu→parts→Smart socket, enter the smart socket setting interface.
- Operate the smart socket get into the code status（for details, refer to the instruction manual of the socket）
- Press “on”  and “off”  in turn，host send the wireless signal to smart socket
- The smart socket flashing light indicates that the code is successful, and then after the socket exits the code status.（for details, refer to the instruction manual of the socket).
- Click turn “on” or “off”,can set alarm linkage function open or not.

 Click  or  , check if the socket can be turned on or off to check whether the socket has been added to the control panel successfully.

If the alarm linkage setting switch is on，When the host alarms, the added socket turns on automatically, and when the host disarms or the siren sounds, the socket automatically turns off.

3.11 Smart home appliance

Full Socket

Interface press: press socket, enter the smart socket interface

Pairing

For pairing socket with the host, please refer to **"Add smart socket"**. The host can add multiple smart sockets.

Press “on”  or “off”  ,The host sends an ON/OFF wireless signal to control the socket.

 **If the socket is added successfully to control panel,**we can use the host or mobile App to turn on/off the socket, or can do timer control for the socket

Socket timer

The host can set multiple sets of timers to turn the smart socket on or off periodically. Each group can be set to the socket number, time, timed on/off and day of the week options.

Click: Menu →parts →socket timer, enter the socket timer list interface.

Add the timer

- Click  , enter the socket timer setting interface.
- Click  , or  in  , set the socket number.
- Click  , or  in  , Adjust the timer time (hour: minute).
- Click  , choose the week item，set the day of the week.
- Click  , choose timer on or off.
- Click  , finish the setting.

Edit

Click the sequence number in front of the timer list to edit the corresponding timer. The method is the same as above.

Delete

press  , delete the corresponding timer.

press  , delete the corresponding timer.

3.12 Recording management

Alarm record

You can record in this unit for 20 seconds. When there is an alarm, the host will make a preset call and play this recording.

- Click：Menu →record →record and playback.
- The host displays the “Task is busy, please wait” dialog box. When it become “Recording”, the recording countdown time starts.
- After the recording , the host displays “Playing Recording” and plays back automatically.
- After the playback finished，click  ，will note “Please wait saving”.When host shows “operation OK”,record succeed

3.13 Time arm/disarm

Users can set the automatic arming and disarming according to their own schedule, avoid repeating operations every day or forget to arm and disarm.

Arm timer

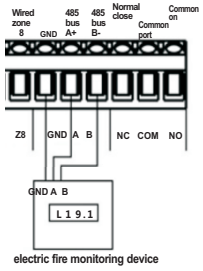
- Click：menu→timer→arm timer.
- Click  and  ,Adjust the arm timer time (hour: minute).
- Click  choose “on".
- Click  finish setting.

Disarm timer

- Click：menu→timer→arm timer.
- Click  and  ,Adjust the arm timer time (hour: minute).
- Click  choose “on".
- Click  finish setting.

3.14 Electrical / gas fire detector

The host supports the electric/gas fire monitoring function. The host connects to the electrical fire monitoring detector through the 485 communication interface (only the residual current type is supported), and the wiring is as shown in the figure.



- After the host and the electrical fire monitoring detector (hereafter referred to as the detector) are properly installed, the host reads the monitoring data of the detector and sets the threshold, and makes corresponding alarm actions based on the data.

The host's communication address must be set to 01.

4 Mobile APP

Use the mobile browser to directly scan the cover QR code and download and install it.

When the APP is used for the first time, it needs to be used normally after the Wi-Fi network is normal and the host is equipped with the network. The distribution method refers to the APP operation instruction.

5 Remote SMS

5.1 Parameter setting via SMS

The user is required to edit SMS message according to below format, and send the SMS message to SIM card in the alarm host.

*	System Password	*	Address	Content	*	Address	Content	*

One SMS message can contain one or more address or content setting, but must be separated by * and the first and last data must be *. The address must be 2 digits, otherwise unpredictable setting results may occur. One SMS setting can include maximum 160 bits. It is suggested to put all contents in one SMS.

Address	Function	Content and Limits	Factory Default
35	Times of redial	1~255times	Once
36	Times of auto answering ring	1~255times	Once (reserved)
38	Revise user password	0000~9999 4 digits	1234
39	Revise system password	0000~9999 4 digits	6666
43	Initialization	Empty, refer to Note 1	
51	Set alarm phone 1	Refer to Note 2	off
52	Set alarm phone 2	Refer to Note 2	off
53	Set alarm phone 3	Refer to Note 2	off
54	Set alarm phone 4	Refer to Note 2	off
55	Set alarm phone 5	Refer to Note 2	off
62	Check GSM signal strength	Empty	
90	Set GPRS server IP address	This operation is only valid for online GPRS. Refer to Note 3	Empty
92	Set GPRS APN	This operation is only valid for online GPRS. Refer to Note 4	CMNET
93	Set domain name of the network time server		us.ntp.org.cn
94	Set Greenwich time zone		+8

Note:（Below examples are based on default system password 6666）：

1、Initialization: All learned remote control, wireless detector and RFID card are remained, the other parameter is reset to factory default.

Set SMS contents: ***6666*43***

2、Format of alarm phone number: **xxxxxxxxxxx,A,B**

xxxxxxxxxxx is phone number（Max 18 digits）,A is calling alarm switch (1-on , 0-off) , B is SMS alarm switch (1-on , 0-off) 。
Example：
Set 2 alarm phone numbers as 13912345678 is used to receive calling and SMS, 075581234567 only receives calling alarm, then please set SMS contents according to below format: ***6666*5113912345678,1,1*52075581234567,1,0***。

3、Format of IP address: **aaa,bbb,ccc,ddd,xxxxx**

aaa,bbb,ccc,ddd is IP address, xxxxx is the port number，separated by comma.
Example:
Set GPRS server IP address as 116.62.42.223, port is 2001, then please set SMS contents according to below format: ***6666*90116,62,42,223,2001***。

4、Set up GPRS APN of the local GSM operator

Example：
The local GPRS APN is internet.beeline.kz , then please set SMS contents according to below format: ***6666*92internet.beeline.kz***。

5.2 Hub name setting via SMS

The user can set a name for the hub which is used as the prefix of SMS phone number, to recognize the hub or specific alarm location.

SMS format：**1234@XX Building A Block** ， 1234 is password, @ is command, XX Building A Block is the name to be set (Max.40 bits)

5.3 User-defined defense zone name setting via SMS

The name of each zone can be set for alerting SMS messages to identify which zones.

Set SMS format：**1234@XX@master bedroom** , 1234 is user password，@ is command , XX is zone number (range 00~99) ， “master bedroom” is the name to be set (Max.20 bits)

5.4 Parameter inquiry setting via SMS

5.4.1 System inquiry setting

SMS format：***6666*62*** **,alarm host feedback SMS：**

SYSTEM set:	
SN:	Alarm host serial number
LANGUAGE:	Alarm host language
ENGINEER PASSWORD:	Engineer password
USER PASSWORD:	**User password**
GSM CSQ:	GSM signal strength (0 or 99 indicates an abnormal GSM signal)
WIFI RSSI:	WIFI signal strength

5.4.2 System inquiry setting 2

SMS format：*6666*90*，alarm host feedback SMS：

SYSTEM set2:	
APN:	GPRS name
GPRS IP:	GPRS server IP address and port
NTP:	Internet time server’ s domain name
TIME ZONE:	GMT standard time zone
SERVER:	Server

5.4.3 Alarm phone inquiry setting

SMS format：*6666*51*，alarm host feedback SMS：

PHONE set:	
1：	1st alarm phone number, voice switch, SMS switch, main switch
2：	2st alarm phone number, voice switch, SMS switch, main switch
3：	3st alarm phone number, voice switch, SMS switch, main switch
4：	4st alarm phone number, voice switch, SMS switch, main switch
5：	5st alarm phone number, voice switch, SMS switch, main switch
REDIAL COUNTER：	Redial times of voice alarm

5.4.4 Delay inquiry setting

SMS format：*6666*33*，alarm host feedback SMS：

DELAY set:	
ENTRY:	Entry delay (unit: second)
EXIT:	Exit delay (unit: second)
SIREN:	Siren duration time（unit: minute)

5.4.5 On/off inquiry setting

SMS format：*6666*46*，alarm host feedback SMS：

SWITCH set:	
ARM/DISARM BEEP:	Arm/Disarm switching beep（1：on，0：off)
ALARM BEEP:	Siren alarm beep（1：on，0：off)
ARM/DISARM SMS:	Arm/Disarm SMS switch（1：on，0：off)

5.4.6 Learned remote controller/detector/RFID tag number inquiry

SMS format：*6666*26*，alarm host feedback SMS：

DETECTOR learned:	
REMOTE:	Number of learned remote control
DETECTOR:	Number of learned detector
RFID:	Number of learned RFID card

6 Telephone function

press to make calling in the main interface

Click to read the dialed number.

In any of following states, calling operation will be disable: GSM network anomaly, Arming status, calling alarm.

7 Daily operation

The user can control the alarm host by any of following ways:

- ✓ On-site operation on the screen, remote control or RFID card.
- ✓ Remote SMS.
- ✓ Mobile phone APP.
- ✓ Mobile phone APP.

7.1 Out Arm

By remote control: press【】key to activate Out Arm.

By keyboard: press to activate Out Arm in the main interface.

By RFID card：in disarm mode, put the RFID card close to the sensitive area on the alarm host.

By remote SMS：send SMS message 1234#1(1234 is user password),then the alarm host will reply “System Armed! ” SMS to mobile phone to confirm.

By App：In the main interface, press “Out Arm” icon, and then select the delay arming time (exit delay). After about 3 seconds, the device returns to the out arm status and the APP status icon is updated to out arm.

The alarm host reminder：A reminding voice “System armed” will be heard. The main interface displays “Armed” and “Please exit”, and an exit time countdown progress bar appears. The user needs to leave the alarm zone before the exit time. If Arm/Disarm SMS switch is on，the preset phone will receive “System Armed” SMS.

Under Out Arm mode, all defense zones enter the alert state. If any defense zone is triggered, the alarm host will generate a local siren alarm, and send an alarm SMS and make calling to the preset alarm phone numbers, simultaneously send the alarm message to the mobile APP and GPRS monitoring alarm center. If the alarm linkage smart socket is paired, will open the linkage socket.

7.2 Stay Arm

By remote control: press【】key to activate Stay Arm.

By keyboard: press to activate Stay Arm in the main interface.

By remote SMS：send SMS message 1234#3 (1234 is user password), then the alarm host will reply “System Armed! ” SMS to mobile phone to confirm.

By APP：In the main interface, press “Stay Arm” icon, After about 3 seconds, the device returns to the stay arm status and the APP status icon is updated to the stay arm.

The alarm host reminder：A reminding voice “System armed” will be heard. The main interface displays “Stay Armed” .If Arm/Disarm SMS is on，the preset phone will receive “System Stay Armed” SMS. switch

Under Stay Arm mode, only Stay Arm defense zones enter the alert state. If detector in this defense zone is triggered, the alarm host will generate a local siren alarm, and send an alarm SMS and make calling to the preset alarm phone numbers, simultaneously send the alarm message to the mobile APP and GPRS monitoring alarm center. If the alarm linkage smart socket is paired, will open the linkage socket.

7.3 Disarm

By remote control: press【 】key to activate Disarm.

By keyboard: press to activate Disarm in the main interface.

By RFID card： in Arm/Stay arm mode, put the RFID card close to the sensitive area on the alarm host.

By remote SMS：send SMS message 1234#2, (1234 is user password), then the alarm host will reply "System Disarmed! " SMS to mobile phone to confirm.

By APP：In the main interface, press "Disarm" icon, After about 3 seconds, the device returns to disarm status and the APP status icon is updated to the Disarm.

The alarm host reminder：A reminding voice "System Disarmed" will be heard. The main interface displays "Disarmed".

Under Disarm mode, all the alarm procedure will be terminated, and the alarm host will return to normal status. If Arm/Disarm SMS switch is on, the preset phone will receive "System Disarmed" SMS. If the alarm linkage smart socket is paired, will close the linkage socket.

7.4 SOS

Remote control: press SOS key on the remote control【**SOS**】.

Keyboard: press SOS button on the alarm host.

APP: press SOS icon in the main interface.

Alarm host prompt: the main interface displays "SOS", status icon in the APP interface changes to SOS and local sound&light alarm goes off.Meanwhile, an alarm message is sent to the preset alarm phone and the call is made, the alarm information is sent to the networked monitoring center.

7.5 Return result setting via SMS

<Host Name>:
Remote operation result

8 Alarm and Remote Monitoring

The host supports multiple alarm methods. When an alarm occurs, the alarm message containing the name and number of the detector is sent to the user's mobile phone, and the alarm information is pushed to the mobile APP, also the alarm information is sent to the networked monitoring center. Meanwhile, it calls the user, the user can receive the call to do on-site monitoring and remote control.

The host also supports the following alarm methods:

- ✓ Main power failure: (alarm triggered after the main power failure lasts for 5 seconds).
- ✓ Back up battery low power (when the main power failed, if backup battery voltage lower than 3.45V for 10 seconds, then alarm message is valid.
- ✓ Main power restored.
- ✓ Tamper alarm: (alarm triggered if the control panel is separated from the wall bracket).

8.1 SMS alarm

When an alarm occurs, the hub sends alarm SMS message with detector name and serial number to the preset phone numbers, as below

<Host Name>:
Current Alert!
Zone：xx

8.2 Voice Alarm and Remote Monitoring

8.2.1 Automatic dialing while alarming

When an alarm occurs, the alarm host automatically dials the preset group of numbers (the dial switch must be turned on during setup). After the user answers the call, the host firstly notifies current alarm method, or plays the preset recording (if available), then voice prompts "Press 1 to arm, press 2 to disarm, press 3 to listen, press 4 to talk." If the user finds that it is a false alarm press 2 to disarm the system and terminate the alarm process. User can also press 3 to turn off the alarm and monitor the scene. If you don't need to monitor, just hang up the phone.

If the user does not answer the call or the dialing fails, the host will dial the preset number repeatedly as per preset attempt times until the user answers the call.

8.2.1 Remote calling via preset phone numbers

When the alarm host is called by preset telephone numbers, it automatically gets through. The user can then monitor the scene or control the alarm host according to voice prompts.

8.3 Alarm receiving via mobile app

When an alarm occurs, the host firstly sends an alarm message to the mobile phone. When user opens the APP to enter the main menu, status icon in the center of the APP interface will display red alarm icon, and current alarm method. User can select the "Alarm Information" icon to query all user operation records and host alarm records pushed to the mobile phone.

8.4 Alarm receiving via monitoring center

When an alarm occurs, the host sends an alarm message to the networked monitoring center in real time through the GPRS networking online function. After reception and confirmation of the alarm, the center can quickly make response to the emergency.

This function is applicable only when the host has registered the user networking alarm function and service.

You must use a SMS to set the IP address for this function to take effect. If you are outside of China or in other regions, you must also set the APN. For details on the two setting methods, please refer to the SMS setting parameters.

9 Technical parameters

- Power supply: AC220±20%V, 50/60Hz
- Output power(DC12V): <750mA
- Switchable power supply output (AUX): <750mA
- Alarm linkage output: Normally open / normally closed, maximum load 3A 250V AC / 30V DC
- Working current: <120mA when the screen is off, <200mA when the screen is on
- Standby current: <80uA
- Alarm output: <500mA DC12V
- Wireless frequency: 315/433/868/915Mhz
- Wireless coding: eV1527
- GSM band: 850/900/1800/1900MHz
- WIFI standard: IEEE802.11b/g/n wireless standard
- Backup battery: DC12V/7000mAh lithium battery
- Working temperature: 0~55°C
- Relative humidity: <80% (no condensation)
- Product size: 265x265x79 (L x H x D), excluding metal lock and antenna over height

10 Packing list

- Alarm host(with built-in backup battery)*1
- GSM antenna*1,
- Rod antenna*1,
- Power cord*1
- User manual*1

Electric/ gas fire monitoring device

Applications

Residual current type electric fire monitoring device integrates various functions such as residual current detection, alarm, disconnection, and CAN communication, and has intelligent analysis capability. It is a new type of fire prevention equipment. When an electric accident occurs in the power supply equipment, the detection controller can make sound and light alarms promptly to remind the staff to check the faults, eliminate possible electric hazards and prevent accidents.

Residual current type electric fire monitoring device is applicable to residential buildings, hospitals, libraries, computer rooms, public shopping and entertainment venues, restaurants, hotels, collective dormitories, schools, cultural relics protection units, factory workshops, general warehouses, etc. for electric safety and fire protection. However, it is not suitable for use in flammable, explosive and corrosive environments.

Residual current type electric fire monitoring device can be installed separately for relatively independent power consumption areas, or networked to form an electric fire monitoring and alarm system.

Residual current type electric fire monitoring device is in compliance with the national standard GB14287.2-2005 "Residual current type electric fire monitoringdevice".

Basic Functions

1, Real-time monitoring

Residual current electric fire monitoring device enables real-time monitoring of the residual current in the circuit in control.

2, Alarm and protection function

Residual current type electric fire monitoring device can detect the residual current of the circuit. When the limit is exceeded, sound and light alarm goes off, and power supply circuit can be cut off within a specified time.

3, Communication function

Residual current type electric fire monitoring device is equipped with a CAN communication interface. Through CAN communication, network communication with the monitoring device host can be realized to fulfill remote management, maintenance and monitoring.

Main Technical Parameters

1, Rated working voltage: AC220V

2, Alarm & protection when residual current exceeds the limit.

(1) Alarm set value: 50mA-999mA (±5%) continuously adjustable, the step size is 1mA.

(2) Rated residual operating current: 30mA-999m continuously adjustable.

(3) Factory parameters of this device have been set to the default values as follows:

Rated residual current warning: 540mA

Rated residual current alarm value: 600mA.

(4) Rated residual non-operating current: 20mA-1000mA, continuously adjustable.

3. Protection action time: < 0.5s.

4, Alarm sound: > 70db;

5, Alarm disconnection output: switch type, contact capacity AC250V/3A;

6, Communication method: CAN communication with the host computer <10km

7, Environmental conditions

A. Ambient temperature: -20°C+40°C

B. Relative humidity: 10%-90%

C. Altitude: no more than 3000m

D. Places: rainproof facilities

8. Installation method: rail installation.

9. Operating indicator: It indicates whether the detection controller is running normally. The indicator flashes during normal operation.

10. Communication indicator: It indicates whether the communication between the device and the host computer is normal. The indicator flashes during normal communication.

11. Alarm (disconnection) indicator: When current leakage reaches the alarm value, the indicator is constantly on with alarm sound. This indicates emergency like leakage or overload in the power line, reminding the staff to solve the problem in time.

12. Warning indicator: When the current leakage reaches the warning value (90% of the alarm value), the indicator is constantly on.

Parameter Settings

Set various parameters required for the normal operation of the device. The parameter setting of the residual current type electric fire monitoring device can be done through the button on the panel. When alarm is triggered, the mute button should be pressed first. After the fault in the line is eliminated, press reset button. Operation as follows: enter in sequence: long press the setting button / switch display "P-00" Press OK to enter "0000" and press the minus button to enter the password (9999) and press OK to set the parameters.

1. Residual current alarm value setting: select ' P-01' to indicate the residual current alarm setting, press the plus or minus key to select the data, press 'OK' to confirm the setting.
2. Select ' P-02' to indicate the alarm output disconnection device (1 is disconnecting and 0 is non disconnecting).
3. Residual current warning setting (50%-90%): Select 'P-03' to indicate the residual current warning setting. The data is set according to the percentage of leakage alarm. The alarm value of leakage is set to 300mA; the warning setting is 90%, the warning value of leakage current is 270mA, press the plus, minus button to select the data, press the "OK" button to confirm the modification.
4. Select 'P-04' to indicate the temperature alarm setting. Press the plus or minus key to select the data. Press 'OK' to confirm the setting (range 20 ° C~150 °C).
5. Select ' P-05' to indicate the temperature alarm disconnection setting (1 for disconnecting and 0 for non disconnecting).
6. Communication address setting: Select "P-06" to indicate the device address setting option. Press the plus or minus button to select the data. The address code cannot be duplicated with other address codes. Press "OK" to confirm the modification. (No need to set when there is no networking communication with the host).
7. Please do not select "P-07" if there is no special case. This value is the leakage current correction value.

Communication Network Description

1.Communication transmission line; transmission medium; twisted pair adopted if communication distance is less than 300m, it is recommended to use shielded twisted pair or fiber optic,etc. Wiring to be done as per fire prevention requirements.

2.Auxiliary materials; bus short circuit isolation (suitable to be set), repeater, splitter; subject to construction site.

Main Technical Parameters

1. When alarm occurs, the alarm light is on, indicating that the circuit has leaked and overloaded the set value. Check the location of fault, eliminate hidden problems of the power supply line before performing the reset operation so that the device returns to normal working state.
2. Every time the problem is solved, record time of the fault, type of the light and processing method for future reference.
3. Disassembling or repairing of the device is prohibited without consent of the company.
4. According to the national standard GB13955-2005, the working lifespan of the device is six years, device should be replaced on expiry.
5. Residual current type electric fire monitoring device should work in its main technical characteristics. The device falls into the category of precision instruments and meters. It should avoid impact, collision and is prohibited from rain.