Please read this Manual carefully before installing and using the product.

JB-FSD-A82E Fire Indicating Panel

1 Product overview

1.1 JB-FSD-A82E Fire Indicating Panel (after this referred to as Fire Indicating Panel) is a microprocessor-controlled Fire Indicating Panel developed and produced by our company. It is connected to the A-series fire alarm controller produced by our company through non-polar two bus, and displays the fire alarm and feedback information transmitted by the controller. A Fire Indicating Panel can be installed on each floor. When a fire alarm is triggered, the Fire Indicating Panel will emit an alarm sound, and display the alarm time and position on the screen.

2 Product features

2.1 Full electronic coding, can be rewritten on site by encoder.

2.2 Through the fire alarm bus and fire alarm controller connected, wiring only two buses, do not need to distinguish polarity.

2.3 A maximum of 999 alarms are displayed.

2.4 Chinese display alarm location information, easy to locate the alarm location.

2.5 Easy to operate.

2.6 Beautiful appearance.

3 Technical parameters

3.1

| Items	Parameters
Executive standard	GB 17429-2011 "Fire Indicating Panel"
Working mode	Non-polar two-wire system
Working current	Monitor < 6.5mA, alarm < 10mA (brightness level 1)
Display capacity	A single Fire Indicating Panel can display up to 999 alarm messages
Weight	About 230 g
Overall dimension	180mm×110mm×31mm (with base)
Operating environment	Indoor, temperature: 0℃ ~ 40℃, relative humidity: ≤95% (40℃, no condensation)
Encoding mode	Through the encoder can be field coding, address coding 1 ~ 324 optional

4 Product appearance and size (see Fig.1)

4.1
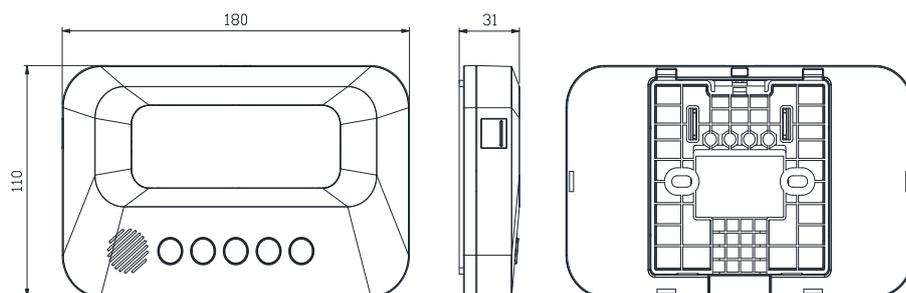
Fig.1（Unit: mm）

5   Use and engineering application

5.1   Description of Fire Indicating Panel terminals
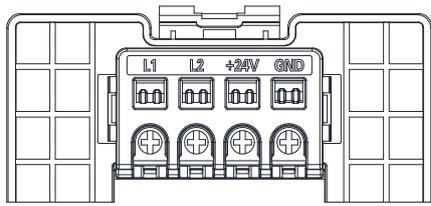
L1	Two bus signal terminal 1	+24V	Not In Use
L2	Two bus signal terminal 2	GND	Not In Use

Fig.2
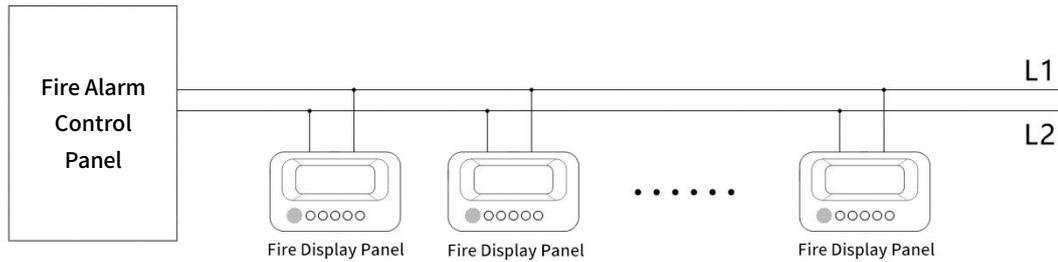
5.2   Wiring diagram:

Fig.3 Wiring diagram

5.3

Address coding: As shown in Fig.4, connect the bus input end of the Fire Indicating Panel with the encoder coding end, L1 and L2 adopt non-polar connection, set the encoder as the coding function, write the correct address code, press the "coding" key to complete the address coding setting.

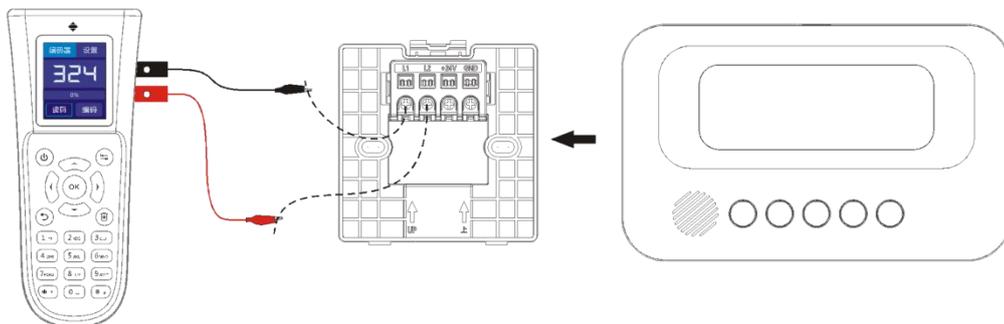(*Note: Please refer to the encoder manual for detailed operation*)

Fig.4 Coding diagram

5.4   Fire Indicating Panel function and use method

5.4.1   Indicator description

Name	Light color	Instructions
Fire alarm	red	Light it when there's a fire alarm
First fire alarm	red	There is a fire alarm and the current display is that the first fire is always lit, and the non-first fire is extinguished
Sound suppression	green	The system or device lights up when the sound is silenced
communication	green	Shining when communicating with fire alarm control panel
Power source	green	The power supply is normal and the power indicator is steady on

5.4.2   Interface display

When there is no fire alarm, the Fire Indicating Panel is in the normal monitoring state, as shown in Fig.5. The upper left corner shows the

current communication mode between the Fire Indicating Panel and the fire alarm controller, and the communication mode is automatically recognized. The time is displayed in the middle position and is synchronized with the connected controller time. The local address number is displayed in the lower left corner. The current login status is displayed in the lower right corner.
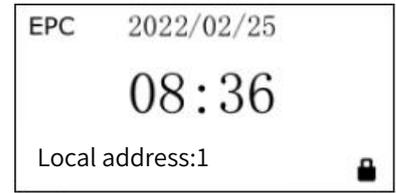
```
EPC     2022/02/25
      08:36
Local address:1              🔒
```
Fig.5 Normal monitoring interface

Note: EPC/9000 indicates that the current communication mode is EPC or 9000 communication mode. If no mode is displayed, the communication on the bus is not detected. 🔓Indicates level 2 or level 3 user login; 🔒Indicates that the user is not logged in (level 1 user).

When the fire alarm information is received, the Fire Indicating Panel displays the alarm information, as shown in Fig.6. The first line "001/999" indicates section 001 fire/Total 999 fire. "11:28 Technology Building 2nd Floor" indicates the time and location of the current fire alarm. "Manual button" indicates that the current alarm signal is a manual alarm button alarm. First alarm indicates the first alarm of the current fire alarm.

```
         001/999
11:28    Technology Building 2nd
_____
Manual button          First alarm
```
Fig.6 Alarm display interface

5.5   Operation instruction

The Fire Indicating Panel has five buttons, which are: TEST 、 ◄ 、 ► 、 OK and MUTE .

5.5.1   User level and permissions

According to the different permissions of the operation, the Fire Indicating Panel is divided into three user levels:

Level 1 user   do not need to log in, can observe the displayed information, and can perform sound suppression and query operations.

Level 2 user   Level 2 users on the normal monitoring screen, press any key to display the password input box, and press one by one ► 、 TEST 、 ◄ 、 OK to finish Level 2 user log in. Level 2 users can perform self-check, muffling, and query operations.

Level 3 user users can press any key on the normal monitoring screen to display the password input box ◄ 、 TEST 、 ► 、 OK to finish Level 2 user log in. Level 3 users can perform self-check, muffling, query, and setting operations.

5.5.2   Self-check function

After unlocked, press the self-test key, the Fire Indicating Panel starts self-test, and the LCD screen and indicators are all lit up and accompanied by a sounds of trumpet. After the end of the self-test, the Fire Indicating Panel left the user level before the self-test operation.

Notice: No self-test can be performed when reset, display alarm information, or in the setting interface!

5.5.3   Silencing function

Press MUTE key mute the fire alarm sound and the mute indicator light is lit. Press the fire alarm controller MUTE key，The alarm tone of the Fire Indicating Panel can also be eliminated. When the fire alarm is received again, the Fire Indicating Panel make the fire alarm sound and extinguish the noise suppression indicator light.

5.5.4   Query function

When the Fire Indicating Panel is in the alarm interface, Press ◄ or ► key to query the previous or next alarm information; one alarm information can be queried at a time.

5.5.5   Setting

When the fire display was on as a level 3 user, press the ◄ to enter the menu setting interface, as shown in Fig.7.
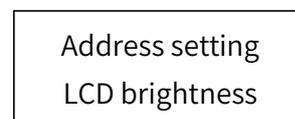
```
Address setting
LCD brightness
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Fig.7 Menu interface

1. Set the local address in the Address Settings menu. After the setting completed, press Confirm to exit the address

setting.Address setting: The address bits of the Fire Indicating Panel can be set to a maximum of 3 bits.Press ◄ or ► to move the cursor，Press MUTE or TEST to change the current bit's increase or decrease. For example, if the current address is 002, 2 is the current bit.Press the MUTE one time,the address　will become "001"，Press TEST key one time,the address changes to 003.Press OK to save and exit.

2. Press MUTE and TEST key to adjust the Screen Brightness，Press OK to save and exit.

3. The Mode Setting be able to set the feedback type whether needs to be displayed or not，"X" indicates that no need to display feedback，"√" indicates that need to feedback，Press one of ◄、►、MUTE or TEST key can switch the mode，then press OK to save and exit.

On the Level 1 menu interface press ◄ to exit the menu and return to the normal monitoring interface，Press ► to Logout.

6 Installation and commissioning

6.1 The installation method is as follows

The installation of the JB-FSD-A82E Fire Indicating Panel requires a special mating plug-type base, which is installed in a wall-mounted pre-buried 86-box mode. The external cable can be directly connected to the base terminal behind the Fire Indicating Panel.

The supporting base is shown in Fig.8. The overall dimension is 46mm×48mm×18mm (length × width × height), the diameter of the fixed holes is Ø4.5mm, the spacing of the fixed holes is 45mm ~ 63mm, and the spacing of the 86 boxes is 60mm.

Fixed base: Fix the Fire Indicating Panel's base on the buried 86 boxes.

Connecting lines: Connect the Line from box 86 to the plug-type terminal of the Fire Indicating Panel according to the terminal wiring instructions.

Fixed Fire Indicating Panel: Align the guide groove at the back of Fire Indicating Panel with the fixed base, and press the Fire Indicating Panel firmly until the guide groove is completely match the fixed base, as shown in Fig.9.
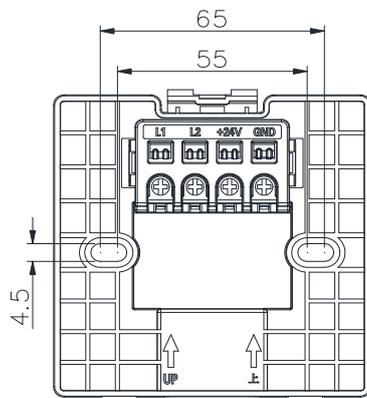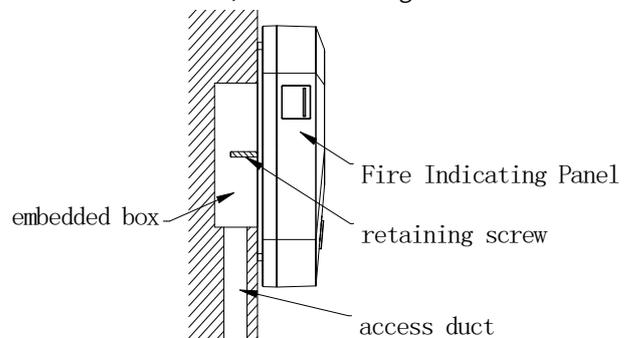
Fig.8　Dimensions of the base   Fig.9　Fixing of the Fire Indicating Panel

6.2 The debugging method is as follows

a. After all products are set, installed and confirmed, power on the controller and log in automatically.

b. After the automatic login is normal, the communication indicator of the Fire Indicating Panel blinks normally,that indicate it work properly. Then set the device type of Fire Indicating Panel and the corresponding area, building, floor, and room information on the controller. There are three types of equipment on the JB-FSD-A82E Fire Indicating Panel, which are regional display panel, building display panel and floor display panel. If the device type of the JB-FSD-A82E Fire Indicating Panel's corresponding address is set as regional display panel, the Fire Indicating Panel is a regional panel and displays all alarm information in the area. The same applies to the building display panel and the floor display panel. Set an appropriate device type based on site conditions.

c. Finally, make the controller report the fire alarm test. After the corresponding Fire Indicating Panel receives the alarm

information, the fire alarm light will be on constantly, and the time and location of the fire alarm will be displayed. After the test finished, the controller resets to make the Fire Indicating Panel return to the normal working state.

7   Matters needing attention⚠

7.1   Before starting, check whether the line has any problems, such as short circuit, open circuit, wrong connection, etc.

7.2   The Fire Indicating Panel is a precision electronic product, which needs to be managed by special personnel. It is strictly forbidden to touch or open it at will.

7.3   Do not wipe the surface of the machine with alcohol.

8   Fault analysis and elimination

8.1

Fault phenomenon	Possible cause analysis	Elimination method	Remarks
The startup Fire Indicating Panel is not displayed or is abnormal	A. bad connection with the controller cable B. the LCD screen is broken or the main CPU is damaged	A. check the connection cable B. need to return to the manufacturer for maintenance	
The communication between the display disk is abnormal	The communication line is faulty or the host does not send inspection data	Check whether the signal cable is faulty	
Unable to report a fire alarm	Check that the host has correctly registered the Fire Indicating Panel	The host registers the display disk	

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