



OPERATING manual

***FIRE alarm
CONTROL panel***

VIVID32

HORING LIH INDUSTRIAL CO., LTD.

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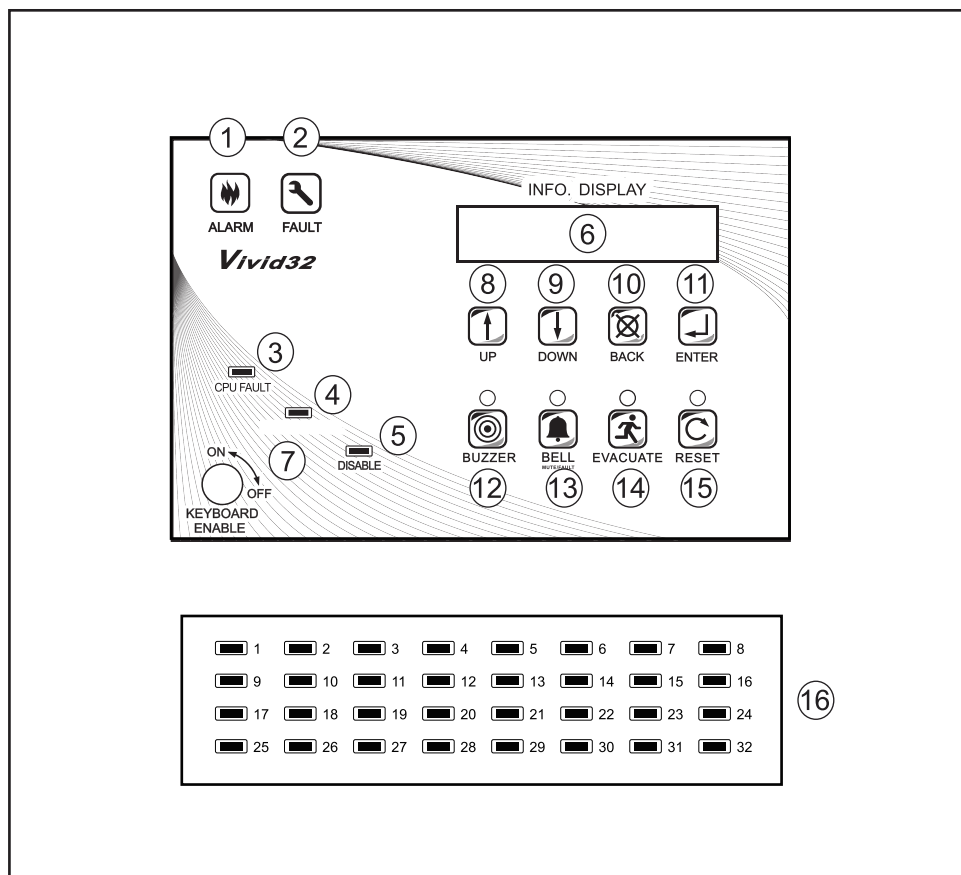
■ 1. System Characteristics **V/32**

VIVID32 System Characteristics

1. In accordance with EN54-2 & EN54-4.
2. Available from 1 to 32 zones and modular setting enable.
3. Individual zone disable function.
4. Key switch protection for panel control switches. When the key switch is turned off, the BUZZER, BELL, RESET switches will be disabled.
5. Protection for withstand voltage can reach up to 2.5KV.
6. Fire Alarm NO, NC, COM & Fault Alarm NO, NC, COM output contact points.
7. Maximum 4 sets of sounder outputs. (8L-1 set, 16L-2 sets, 24L-3 sets and 32L-4 sets)
8. Automatic dialler output contact points.
9. LCD screen is 24-digit x 2 lines for events display and storage capacity up to 255 events.
10. Temporary mute for built-in buzzer.
11. Temporary mute and long-term silence function for the area bell.
12. Area bell short-circuit and wirebreak fault detection.
13. Output/Input ground fault detection.
14. PCB connection fault detection.
15. Microprocessor- based & digital signal design included.
16. Membrane switch provides longer service and is waterproof, dust resistant and easy to clean.

2. Control Board Description

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1. Fire Alarm Indicator
2. Fault Indicator
3. CPU Fault Indicator
4. Power Normal Indicator
5. Disable Indicator
6. LCD Screen
7. Keyboard Enable Switch
8. "UP" Switch

9. "DOWN" Switch
10. "BACK" Switch
11. "ENTER" Switch
12. Buzzer Mute Switch
13. Alarm Bell Silence Switch
14. Evacuate Switch
15. System Reset Switch
16. Zone Status Indicators

2. Control Board Description

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2.1 LED Indicators

1. **Fire Alarm Indicator:** A red light lit indicates the fire alarm system is receiving a fire alarm signal. When it is in alarm delay status the red light will flash.
2. **Fault Indicator:** A yellow light lit indicates a fault in the fire alarm system.
3. **CPU Fault Indicator:** When the yellow light is on, the panel will enter a safe state (the zone detection function stop, and the panel screen displays "system fault")
 Danger:
 If this LED "light ", the efficiency of entire system must be checked.
 reset the panel (level 2) to turn this LED off.
 If the fault cannot be eliminated, Indicates trouble with the panel CPU the panel must be sent back immediately to the manufacturer for repair.
 ※When the CPU Fault LED is illuminated, other functions are triggered simultaneously.
 General Fault LED illuminated.
 Audible buzzer Active.
 Fault relay Active.
4. **Power Normal Indicator:** A green light lit indicates the system is under normal operating.
 Note: This LED will go off when the primary AC power and the secondary DC power both are failure.
5. **Disable Indicator:** A yellow light lit indicates has any function set to the disable status.
6. **LCD Screen:** information display for reading out of system status. When the system is in Access LEVEL 1: Press "UP", "DOWN", "BACK" and "ENTER" switches to view the details on LCD screen. When the system in Access LEVEL 2 and Access LEVEL 3: Press "UP", "DOWN", "BACK" and "ENTER" switches for the system setup.

2.2 Keyboard Switches

7. **Keyboard Enable Switch:** The switch turns to be "ON" position to access the system in LEVEL 2, the keyboard are enabled including "UP", "DOWN", "BACK", "ENTER", "BUZZER", "BELL", "EVACUATE" and "RESET" switches.
8. **UP Switch:** Pressing this switch shows the previous item on the page. It can also be used to change the time and passwords by increasing the value progressively.
9. **Down Switch:** Pressing this switch shows the next item on the page. It can also be used to change the time and passwords by decreasing the value progressively.
10. **Back Switch:** Pressing this switch shows the previous page. When changing the setup of time and passwords, pressing this switch can shift control to the previous decimal place.
11. **Enter Switch:** Press "ENTER" switch to enter the selected item on LCD screen to view, to setup and enable or disable the chosen selection and digit.

■ 2. Control Board Description V/32

12. Buzzer Mute Switch: A buzzer on the fire alarm system beeps during alarm and fault status. Press “BUZZER” switch once to stop the buzzer temporarily. The yellow indicator upon the “BUZZER” switch will be lit. (The buzzer will become active again if the fire alarm system detects any new alarm or fault status and the indicator light will go off.) Press “BUZZER” switch again to return to normal status. The indicator light will go off.

13. Alarm Bell Silence Switch: When the fire alarm system is in alarm status, press “BELL” switch to mute the bells which are connected to the fire alarm system. The yellow indicator upon the “BELL” switch will be lit. Press the “BELL” switch again to remove the mute. The indicator light will go off.

Note: The BELL’s indicator light also can display the Bell fault status.

When the Bell is fault with the fire alarm system, it will display flickering and yellow light. The fault flickering status is a priority level than the BELL temporarily stopping output persistent light status.

14. Evacuate Switch: When the fire alarm system is in alarm delay status, press “EVACUATE” switch to enable the general alarm immediately. A yellow indicator will light.

15. System Reset Switch: Under Access LEVEL 2 and LEVEL 3, Press “RESET” switch to reset the fire alarm system from an alarm, fault and any other abnormal status. The yellow indicator is on and LCD screen shows “System Reset...” while resetting and it goes off when the fire alarm system finishes resetting in 5 seconds.

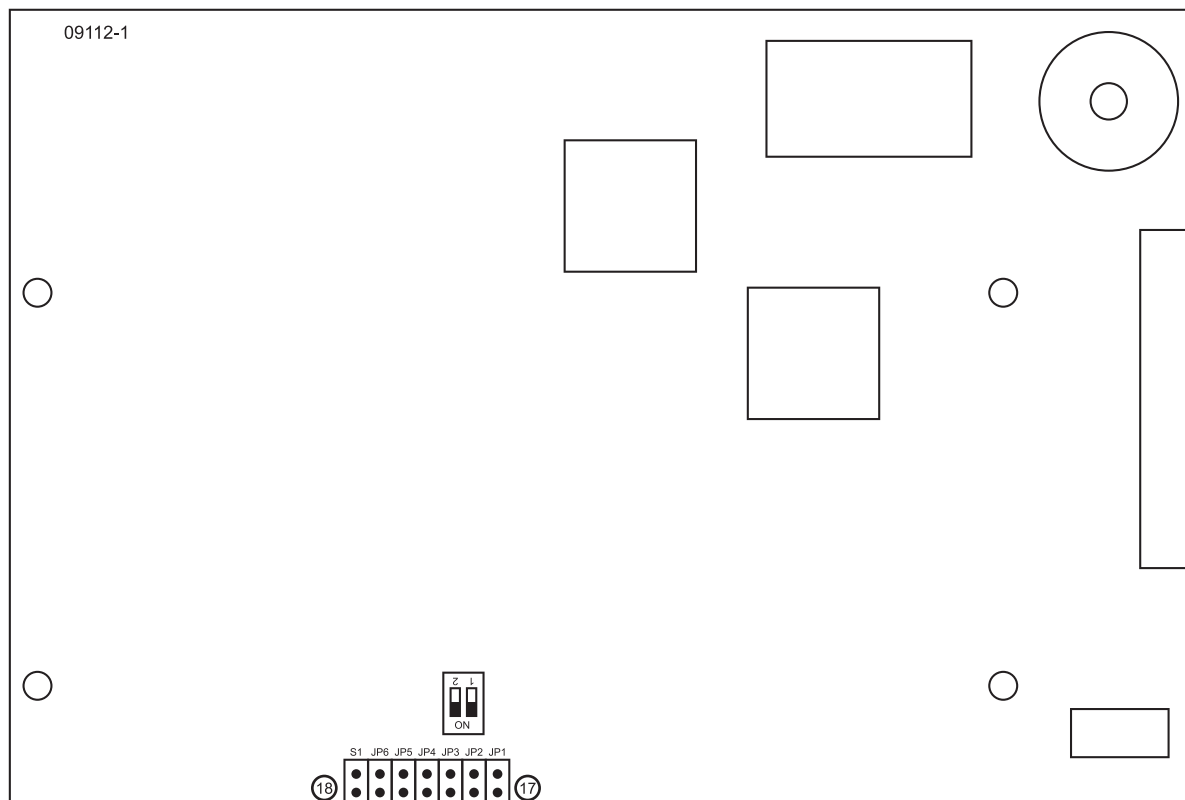
16. Zone Status Indicators: A zone status LED can be in yellow or red to indicate the alarm, fault or disable status of the zone.

- When the zone is in alarm status, a Red LED will light.
- When the zone is in fault status, a Yellow LED will flash.
- When the zone is in disable status, a Yellow LED will light.

2. Control Board Description

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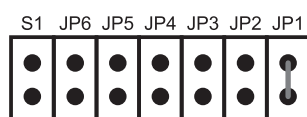
2.3 JUMP Set-up (Access Level 4)



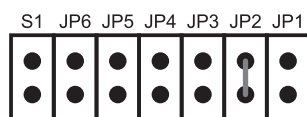
17. Zone Number Set-up (JP1,JP2,JP3,JP4,JP5,JP6): The 1 Zone ~ 32 Zones circuit is set in binary jumper. After setting, press "RESET" switch to update the zone number.

For example:

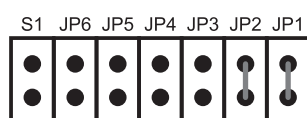
1. Zone Number:1 Zones Set-up:JP1 Short; JP2,JP3,JP4,JP5 and JP6 Open



2. Zone Number:2 Zones Set-up: JP2 Short; JP1,JP3,JP4,JP5 and JP6 Open



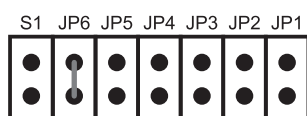
3. Zone Number:3 Zones Set-up: JP1 and JP2 Short; JP3,JP4,JP5 and JP6 Open



2. Control Board Description

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4.Zone Number : 32 Zones Set-up: JP6 Short; JP1,JP2,JP3,JP4 and JP5 Open



18. Access Level 3 Decoder (S1): Short S1 jump and press “ RESET” switch to restore the security code to the default password “0000”.

2.4 AccessLevel

LEVEL 1

Switches “UP”, “DOWN”, “BACK” and “ENTER” allow to viewing the details on LCD screen. During alarm delay status, press “EVACUATE” switch to generate an instant alarm.

LEVEL 2

The “KEYBOARD ENABLE” switch turns to “ON” position to access the system to LEVEL 2. The switches “UP”, “DOWN”, “ BACK”, “ENTER”, “BUZZER” , “BELL”, “EVACUATE” and “RESET” are allowed to work on the LCD screen menu functions: Main Switch, Zone Disable and Zone Number set-up.

More details on

4.Operating Instructions →3. Main Switch

4.Operating Instructions →4. Zone Disable

4.Operating Instructions →6. Zone Number

LEVEL 3

In this level, all operations are based on LEVEL2. To enable “System Setup” functions on LCD screen menu selection list, it requires to input a 4-digit security code to enter LEVEL 3. (More details on 4.Operating Instructions →5. System Setup)

LEVEL 4

There is a screw (“+” form) on the side of the panel door. It requires a Phillips screwdriver to turn on to access to LEVEL 4 to change the hardware settings of the main board, such as DIP switch settings (3.8 Dip-Switch Instruction) and JUMP settings. (2.3 JUMP Set-up)

Note: The authorized technician can repair or replace the components.

■ 2. Control Board Description **V/32**

2.5 Connecting the batteries

The fire alarm system is equipped with standby power 24VDC lead acid batteries.
The batteries are the secondary power Supply of the system.
The standby power will be charged and monitored when the AC power works.
The monitoring process for batteries is as below.

Efficiency Test

The fire alarm system checks the efficiency of the batteries approximately every 180 seconds by simulating load current demand.

If the batteries fail to meet the demand, the event will be displayed on the fault LED and the corresponding message will be displayed on the LCD.

Battery level test

The fire alarm system continuously monitors the battery voltage. If it drops below 22.8 V the panel will display Low Battery warning on LCD screen and remove the status when the voltage restores to 23.6V.

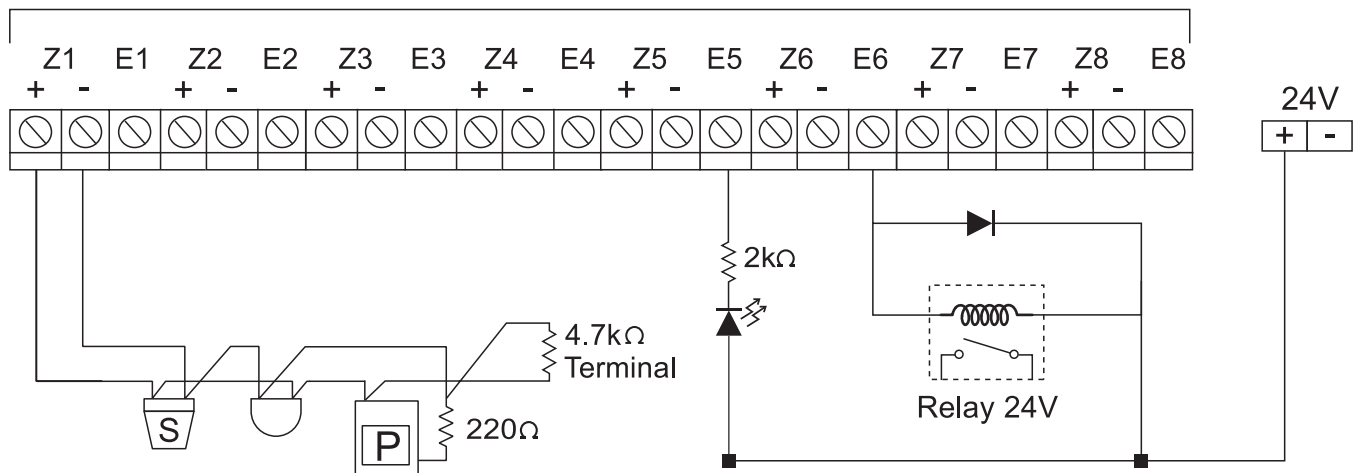
Note : If the maximum internal resistance of the battery and its associated circuitry is over 0.5 ohms, the fire alarm system will display Fault status.

Deep discharge shutdown

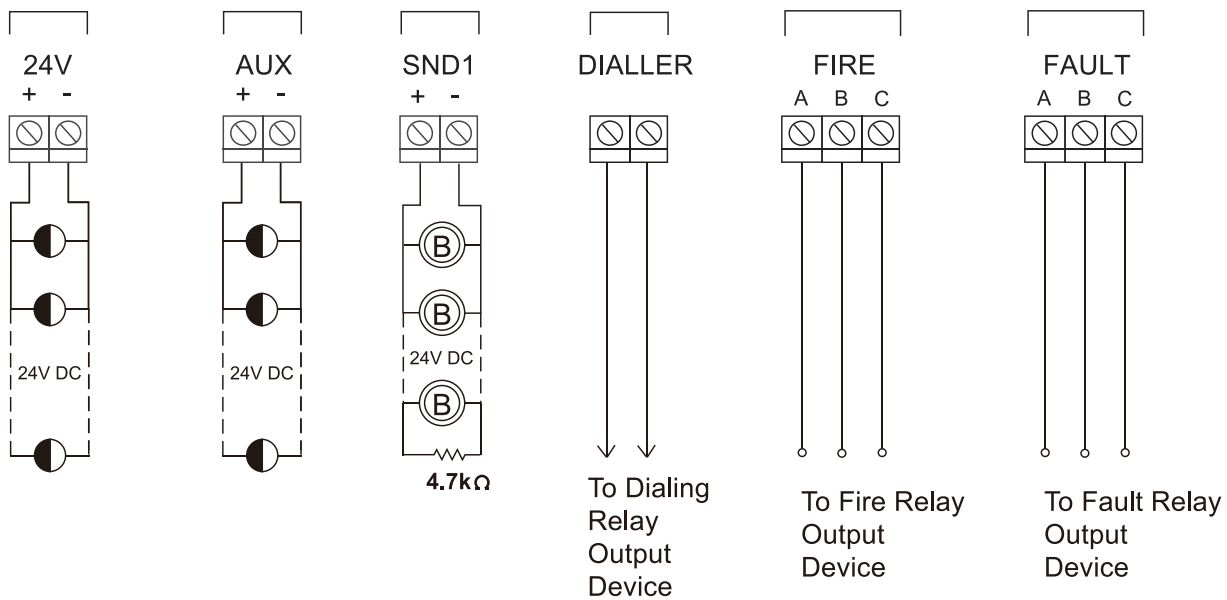
If a mains failure event lasts for a long period, and the battery voltage drops below 19 V, the Fire Alarm System will shutdown the batteries automatically in order to avoid irreparable damage.

3. Wiring Diagram

3.1 Zone Input/Output



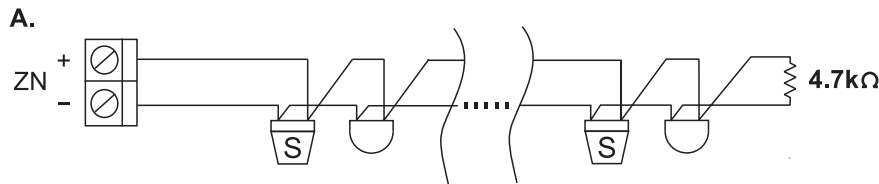
Indicating Lamp 24Vdc Output Sounder Dialler Output Fire Relay Output Fault Relay Output



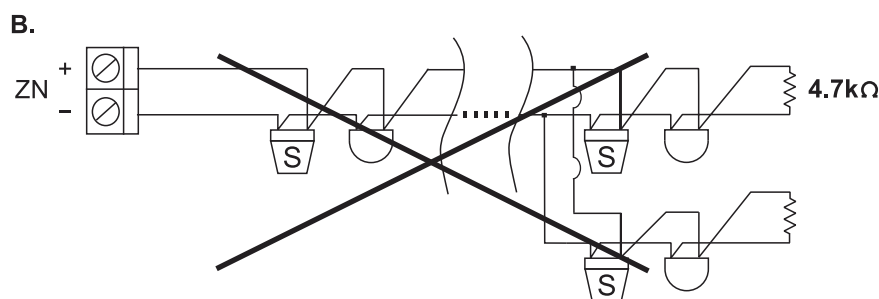
Fire Relay Output & Fault Relay Output (More details on 3.6 Fire/Fault Relay Output Contacts)

3. Wiring Diagram

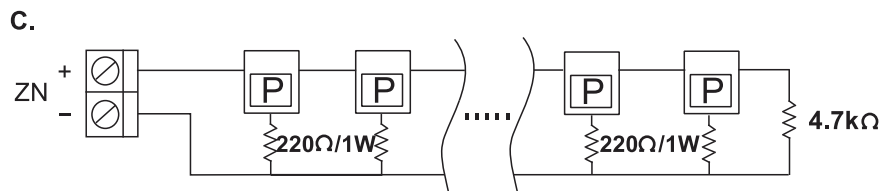
3.2 Zone Wiring:



Wiring Diagram A is a recommended connection. The maximum number of connected smoke detectors is 30 for each zone (not including the mechanic-type heat detectors.)

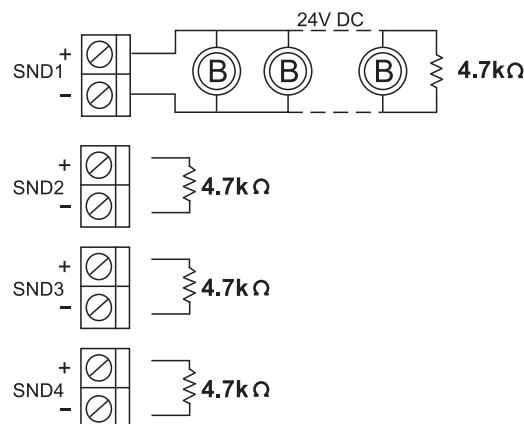


Wiring Diagram B is an improperly connected one. Do not connect a detector or an end of resistor with another detector in parallel way.



Wiring Diagram C. When connecting a manual call point to a zone, please use a 220 ohm resistor and install the 4.7K ohm end of line resistor.

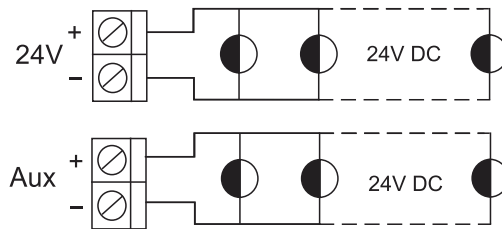
3.3 Alarm Bell Wiring:



Fire alarm control panel is equipped with maximum 4 sets of Area Bells contacts. When connecting one set of bell contacts, please be sure to connect the end of resistor to avoid bell malfunction. Please install the 4.7K ohm resistor across the unused bell contacts as well.

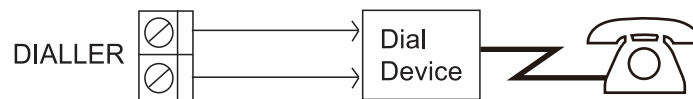
3. Wiring Diagram VV/32

3.4 24V DC Output Wiring:



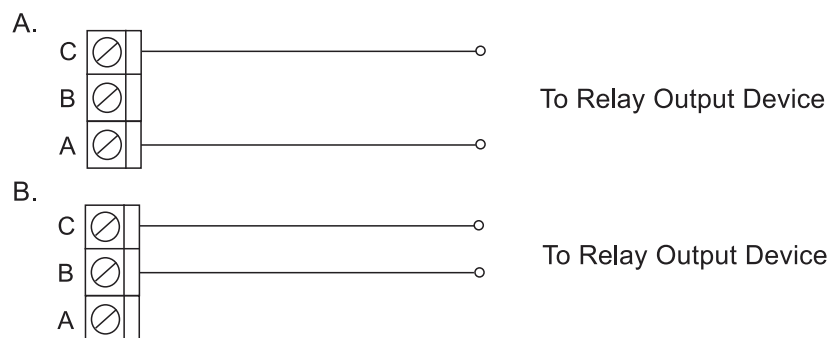
The contacts marked “24V” are controlled by the reset switch but the contacts marked “AUX” are not. When connecting the indicating lamp to the contacts, please connect the red wire to the “+” and the black wire to the “-” contact at the same time.

3.5 Dialler Relay Output Wiring:



The contact is connected with NO. and COM. When there is a fire alarm, the signal will go through the telephone line.

3.6 Fire/Fault Relay Output Contacts:

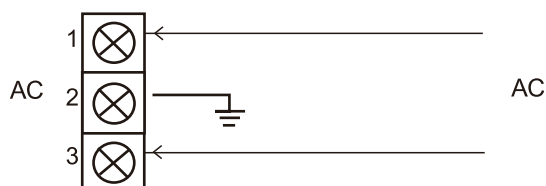


In picture A shows N.O. connection.

In picture B shows N.C. connection.

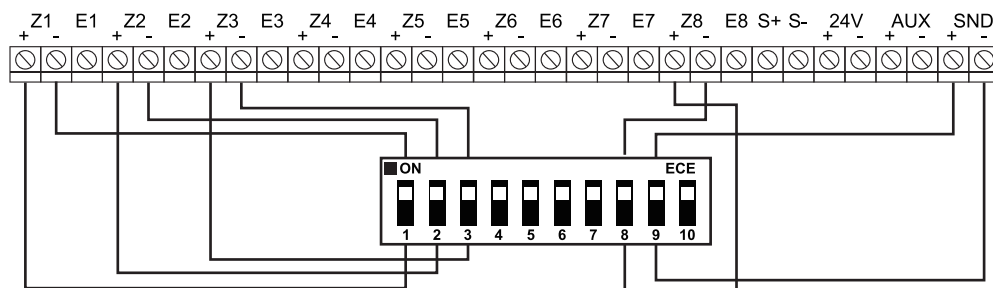
3. Wiring Diagram

3.7 AC Power Connection:



Connect the AC power supply wires to contacts 1 and 3.
Connect the ground wire to contact 2.

3.8 Dip-switch instruction(non-compliance with EN54-2)



OFF: Set the switch to OFF when the zone has connected to devices.
(including detector or sounder).

ON: Set the switch to ON and zone will be setted with internal end-of-line resistor when disconnect device (including detector or sounder).

1~8: It is the place to set internal end-of-line resistor for detector (Z1~Z8).

9: It is the place to set internal end-of-line resistor for sounder.

10: PCB link detection setting.

For example:

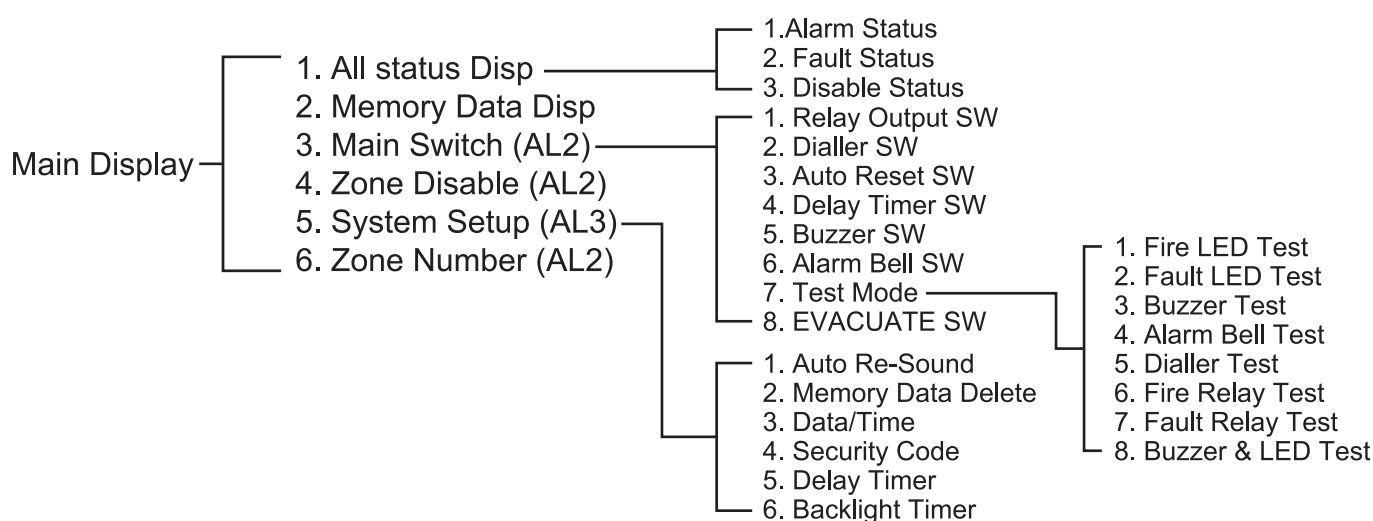
- 1: 8 Zones (PCB*1)
Set the switch to ON for 1st PCB.
- 2: 16 Zones (PCB*2)
Set the switch to ON for 2nd PCB.
Set the switch to OFF for 1st PCB.
- 3: 24 Zones (PCB*3)
Set the switch to ON for 3rd PCB.
Set the switch to OFF for 1st & 2nd PCB.
- 4: 32 Zones (PCB*4)
Set the switch to ON for 4th PCB.
Set the switch to OFF for 1st & 2nd & 3rd PCB.

4. Operating Instructions

4.1 Information Function Screen

System Normal 2018/01/01 11:05.05	When the Fire Alarm System is not in alarm or fault condition. (Disable will show in Disable status page.)
*keylock OFF 2018/01/01 11:05.05	When the "KEYBOARD ENABLE", "BUZZER" and "BELL" switches on or off, the LCD screen shows the switch message, date and time. (The message will automatically disappear in 3 second.)
First Zone Alarm:Z09 09 Zone Alarm Fire=01	When the control panel receives a fire alarm signal, the first line shows the latest alarm zone number, the second line shows the resent alarm zone number and the number of events.
H01 09 Zone Open 2018/01/21 16:38.58	When the control panel receives a fault signal, the first line shows the sequence of event, zone number and fault status. The second line shows the fault event date and time. (Press "UP" and "DOWN" switch to view more events or the system will automatically switch to next event every 5 seconds.)
H01 SND1 Fault ! 2018/01/01 16:38.58	Note: When the area bell/sounder (SND) is in fault status, the LCD screen shows the exclamation mark "!" on upper right corner (even when the LCD is in the other pages). The exclamation mark will disappear when the SND fault is removed.

4.2 Menu Description




4. Operating Instructions


4.2.1. All Status Disp.

4.2.1-1. Alarm Status - Check Alarm Data:


System Normal
2018/01/01 16:38.58

Press the “ Enter” switch to see more details on each item.

► 1.All Status Disp
2.Memory Data Disp

Press the “ Enter” switch to enter the item 1- All Status Disp.

► 1.Alarm Status
2.Fault Status

Press the “ Enter” switch to enter the item 1- Alarm Status Disp. to see more details.

A001 08 Zone Alarm
2018/01/01 16:38.58

The number in the upper left corner is a sequence of signals. For example, “001” is the first signal. The number in the upper middle screen shows the zone number. The upper right corner shows the type of signal alarm. The second line displays the time and date of the event.

Press the “ Up” or “ Down” switch to switch alarm information.



Press the “ Back” switch to return to Alarm Status selection list.

No Alarm Signal



Note: If the control panel is in normal status, it will show “No Alarm Signal”.


4.2.1-2. Fault Status - Check Fault Data:

1.Alarm Status
► 2.Fault Status

Press the “ Down” switch to move to item 2- Fault Status Disp. and press the “ Enter” switch to see more details.

F001 AC Fault
2018/01/01 16:38.58

The number in the upper left corner is a sequence of signals. For example, “001” is the first signal. The upper right corner shows the type of signal (AC or DC power supply/Zone PCB/SND 1~4/5V/24V/ ground fault/light board fault/open circuit/short circuit/extended board outlier detection/CPU malfunction). The second line displays the time and date of the event. Press the “ Up” or “ Down” switch to switch Fault information.

Press the “ Back” switch to return to Fault Status selection list.

4. Operating Instructions

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No Fault Signal

Note: If the control panel is in normal status, it will show "No Fault Signal".

4.2.1-3. Disable Status - Check Disable Data:

2.Fault Status
▶ 3.Disable Status

Press the "↓ Down" switch to move to item 3-Disable Status Disp. and press the "↵ Enter" switch to see more details.

D001 09 Zone Disable
2018/01/01 16:38.58

The number in the upper left corner is a sequence of signals. For example, "001" is the first signal. The number in the upper middle screen shows the zone number. The upper right corner shows the type of Disable signal. The second line displays the time and date of the event.

Press the "↑ Up" or "↓ Down" switch to switch disable information.

Press the "⏮ Back" switch to return to Disable Status selection list.

No Disable Signal

Note: If the control panel is in normal status, it will show "No Disable Signal".

4.2.2. Memory Data Disp. - Check Memory Data:

▶ 2.Memory Data Disp
3.Main Switch

Press the "↓ Down" switch to move to item 2-Memory Data Disp. Press the "↵ Enter" switch to enter the Memory Data Disp.

M001 08 Zone Alarm
2018/01/01 16:38.58

In the upper left corner is a number of the event. (M001~255) The highest number shows the most recent event. The upper middle screen shows the zone number. The upper right corner shows the type of signal. The second line displays the time and date of the event.

M002 01 Zone Fault
2018/01/01 16:38.58

Press the "↑ Up" switch to check the previous event.

Press the "↓ Down" switch to check the next event.


Press the "⏮ Back" switch to return to the Main Display selection list.

4. Operating Instructions

4.2.3. Main Switch - Main Switch Control:(Access Level 2)


2.Memory Data Disp.
▶ 3.Main Switch

Press the “ Down” switch to move to item 3-Main Switch.

Press the “ Enter” switch to enter the Main Switch selection list.

▶ 1.Relay Output SW
2.Dialler SW


Press the “ Up” or “ Down” switch to select the item.

Press the “ Enter” switch to enter the selection item.

4.2.3-1. Relay output - Enable or disable the main board relay output:


Relay Output SW
* Enable Disable


Press the “ Enter” to choose enable or disable.

Press the “ Back” to return to the main selection list.

4.2.3-2. Dialler- Enable or disable the fire alarm dialler output:

Dialler SW
* Enable Disable


Press the “ Enter” to choose enable or disable.

Press the “ Back” to return to the main selection list.

4.2.3-3. Auto Reset - Enable or disable the fire alarm signal latching or not latching: (non-compliance with EN54-2)

Auto Reset SW
* Enable Disable


Press the “ Enter” to choose enable or disable.

Press the “ Back” to return to the main selection list.

4.2.3-4.Delay Timer SW– Enable or disable the alarm delay timer switch: (For Area Sound(SND) 1~4)


Delay Timer SW
* Enable Disable


Press the “ Enter” to choose enable or disable.

Press the “ Back” to return to the main selection list.

4.2.3-5. Buzzer SW–Enable or disable the long-term silence to built-in buzzer : (non-compliance with EN54-2)

Buzzer SW
* Enable Disable


Press the “ Enter” to choose enable or disable.

Press the “ Back” to return to the main selection list.

4.2.3-6. Alarm Bell SW- Enable or disable the long-term silence to area sounder (SND) : (non-compliance with EN54-2)

Alarm Bell SW
* Enable Disable

Press the “ Enter” to choose enable or disable.

Press the “ Back” to return to the main selection list.

4. Operating Instructions

4.2.3-7. Test Mode :


6.Area Sound SW
▶ 7.Test Mode

Press the “ Down” switch to move to item 7-Test Mode.

Press the “ Enter” switch to enter the Test Mode selection list.

1. Fire LED Test
▶ 2. Fault LED Test

Press the “ Up” or “ Down” switch to select the item.


Press the “ Enter” switch to enter the selected item.

4.2.3-7-1. Fire LED Test - Zone Fire Indicators Status Test :

Zone Fire LED Test
▶ Z01 Enable * Disable

Press the “ Up” or “ Down” switch to select the zone number.


Press the “ Enter” switch to disable or enable the Test.


Press the “ Back” switch to return to the Test Mode selection list.

4.2.3-7-2. Fault LED Test - Zone Fault Indicators Status Test :

Zone Fault LED Test
▶ Z01 Enable * Disable


Press the “ Up” or “ Down” switch to select the zone number.


Press the “ Enter” switch to disable or enable the Test.

Press the “ Back” switch to return to the Test Mode selection list.

4.2.3-7-3. Buzzer Test - The built-in buzzer Test : (non-compliance with EN54-2)


Buzzer Test
Enable * Disable


Press the “ Enter” switch to disable or enable the Test.

Press the “ Back” switch to return to the Test Mode selection list.

4.2.3-7-4. Alarm Bell Test –The area sounder (SND) Test : (non-compliance with EN54-2)

Alarm Bell Test
Enable * Disable


Press the “ Enter” switch to disable or enable the Test.


Press the “ Back” switch to return to the Test Mode selection list.

4. Operating Instructions

4.2.3-7-5. Dialler Test – The Dialler Output Test : (non-compliance with EN54-2)


Dialler Test
Enable * Disable


Press the “ Enter ”switch to disable or enable the Test.

Press the “ Back” switch to return to the Test Mode selection list.

4.2.3-7-6. Fire Relay Test –The Fire Relay Output Test : (non-compliance with EN54-2)

Fire Relay Test
Enable * Disable


Press the “ Enter” switch to disable or enable the Test.


Press the “ Back” switch to return to the Test Mode selection list.

Note: When Fire Relay disable or System Fire Alarm, No test function.

4.2.3-7-7. Fault Relay Test –The Fault Relay Output Test : (non-compliance with EN54-2)

Fault Relay Test
Enable * Disable

Press the “ Enter”switch to disable or enable the Test.

Press the “ Back” switch to return to the Test Mode selection list.

Note: When Fire Relay disable or System Fire Alarm, No test function.


4.2.3-7-8. Buzzer & LED Test – For all indicators and main sound test :

.....
..... Test

The screen will show “TEST” and flash continuously, all the indicators and the built-in buzzer will go on, after a 5-second delay, the system will be restored to the surveillance status.

4.2.3-8. Evacuate SW- To enable the EVACUATE switch : (non-compliance with EN54-2)


Evacuate SW
Enable Confirm?

Press the “ Enter” switch to generate an instant alarm. The Fire Alarm indicator will light, the buzzer beeps, the Fire Relay Output and Dialler Output will become active.

■ 4. Operating Instructions V/32

4.2.4. Zone Disable - Disable Fire Alarm Zone : (Access Level 2)


3. Main Switch
 ▶ 4. Zone Disable


Press the “ Down” switch to move to item 4-
Zone Disable.

Press the “ Enter” switch to enter the Zone Disable.

Zone Disable Mode
 ▶ Z01 * Enable Disable













Press the “ Up” or “ Down” switch to select
the zone number.

Press the “ Enter” switch to disable or enable
the zones.



Press the “ Back” switch to return to the Main
Display selection list.

4. Operating Instructions





4.2.5. System Setup - Set up more Other Functions : (Access Level 3)

4. Zone Disable ▶ 5. System Setup	Press the “  Down” switch to move to item 5-System Setup. Press the “  Enter” switch to enter System Setup.
login Code :0000 Code 1 ^	Input a 4-digit code, starting with the left digit (code1). Press the “  Up” and “  Down” switch to increase or decrease the value of the digit.
login Code :0000 Code 2 ^	Press the “  Enter” switch to move the cursor to the next digit. Use the “  Back” switch to return to a previous digit.
login Code :0000 ok?	After the code input is complete, press the “  Enter” switch to System Setup (AL3). Use the “  Back” switch to return to the 4th digit (code4).
login Code :0000 Complete	Press the “  Enter” switch to confirm and enter the System Setup selection list.
System setup Exit? No	Press the “  Back ” switch to return to the confirmation screen of System Setup Exit. Press the “  Down” switch to change the option to “Yes”. Press the “  Enter” switch to return to the System Setup selection list.

4.2.5-1. Auto Re-Sound - To set up the area sound (SND) output to be temporary mute (Enable) or Long-term silence (Disable) :



Auto Re-Sound SW * Enable Disable	Press the “  Enter” switch to disable(Long-term silence) or enable(temporary mute). Press the “  Back” switch to return to the System Setup selection list.
---	---

4.2.5-2. Memory Data Delete - Clear All Memory Data :



System Setup Mode ▶ 2. Memory Data Delete	Press the “  Down” switch to move to item 2-Memory Data Delete. Press the “  Enter” switch to enter the Memory Data Delete.
AL3 Login Code : 0000 Code 1 ^	To delete the memory, input a 4-digit code, starting with the left digit (code1). Press the “  Up” switch to raise the value of the digit. Press the “  Down” switch to lower the value of the digit.

4. Operating Instructions



AL3 Login Code : 0000
Code 2 ^

Press the “ Enter” switch to move the cursor to the next digit. Use the “ Back” switch to move to a previous digit.

AL3 Login Code : 0000
ok?



After the code is finished, press the “ Enter” switch to Password Check Use the “ Back” switch to return to the 4th digit (code 4).

Data Deleting....



To delete the memory, input a 4-digit code, starting with the left digit (code1). Press the “ Up” switch to raise the value of the digit. Press the “ Down” switch to lower the value of the digit.

4.2.5-3. Date/Time - Set up date and time :



System Setup Mode
► 3. Date/Time

Press the “ Down” switch to move to item 3-Date/Time. Press the “ Enter” switch to enter the Date/Time Setup.



AL3 2017/01/21 16:40
^ Edit_Year

The lower right screen shows the editing item (Edit Year). Press the “ Up” switch to raise the value of the digit. Press “ Down” switch to lower the value of the digit.

AL3 2018/01/01 16:40
^ Edit_Month

After setting the year, press the “ Enter” switch to edit month. Use the “ Back” switch to move to a previous digit.



AL3 2018/01/01 16:40
^ Edit_Day

After setting the month, press the “ Enter” switch to edit day. Use the “ Back” switch to move to a previous digit.

AL3 2018/01/01 16:40
Edit_Hour ^



After setting the day, press the “ Enter” switch to edit hour. Use the “ Back” switch to move to a previous digit.

AL3 2018/01/01 16:40
Edit_Minute ^

After setting the hour, press the “ Enter” switch to edit minute. Use the “ Back” switch to move to a previous digit.

4. Operating Instructions

AL3 2018/01/01 16:40
ok?



Press “ Enter” switch to complete the setup of date and time setup. Use the “ Back” switch to move to a previous digit.

AL3 2018/01/01 16:40
Complete



After setup is completed, the display returns to the System Setup selection list.

4.2.5-4. Security Code - Security code reset :



System Setup Mode
► 4. Security Code

Press the “ Down” switch to move to item 4-Security Code. Press the “ Enter” switch to enter the Security Code.

AL3 Login Code:0000
Code 1 ^

To reset the security code, input the 4-digit original security code, starting with the left digit (code1). Press the “ Up” switch to raise the value of the digit. Press the “ Down” switch to lower the value of the digit.



AL3 Login Code:0000
ok?

Press the “ Enter” switch to move the cursor to the next digit. Use the “ Back” switch to move to a previous digit.

AL3 Code Set:0000
Code 1 ^

Input a new 4-digit security code.

AL3 Code Set:0000
ok?

After the code is finished, press the “ Enter” switch to complete the code setting. Use the “ Back” switch to return to the 4th digit (code 4).



AL3 Login Code:0000
Complete

After setting up, the display returns to the System Setup selection list





■ 4. Operating Instructions V/32

4.2.5-5. Delay Timer - Set the alarm delay time : (For Area Sound(SND) 1~4)

System Setup Mode
► 5. Delay Timer



Press the “ Down” switch to move to item 5-Delay Timer. Press the “ Enter” switch to enter the Delay Timer.

AL3 Delay Timer:
05 Sec ok?





Press the “ Up” or “ Down” switch to increase or decrease the value. (0~60 seconds).
Press the “ Enter” switch to complete the delay time setup and back to the previous screen.
Press the “ Back” switch to return to the System Setup selection list.

4.2.5-6. Backlight Timer - Set LCD backlight timer :

System Setup Mode
► 6. Backlight Timer


Press the “ Down” switch to move to item 6-Backlight Timer.
Press the “ Enter” switch to enter the Backlight Timer.

AL3 Backlight Timer:
10 Sec ok?


Press the “ Up” or “ Down” switch to increase or decrease the value.
The time option are 10, 20, 30, 40, 50 and 60 Seconds.
Press the “ Enter” switch to complete the Backlight Timer setup and back to the previous screen.
Press the “ Back” switch to return to the System Setup selection list.

4.2.6. Zone Number & ROM Edition - Display the fire alarm system version : (Access Level 2)

5. System Setup
► 6. Zone Number

Move the cursor to item 6-Zone Number.
Press the “ Enter” switch to see the details.

Zone Number : 32Zones
Rom Ver. 180115

Press the “ Back” switch to back to the Set Up selection list.
Note : Display zone data can be changed via panel internal setting.

■ 5.Maintenance Instructions V/32

Maintenance Instructions

1. Normal Status:

- a. In normal operating status, the Power Normal indicator will shine.
- b. When AC power fails, the backup battery will supply power. The fault indicator will shine and the buzzer will sound. The system can continue monitoring for 12 hours and sound an alarm for 30 minutes.

2. Maintenance:

If the equipment is installed in a public place, maintenance and testing will disturb people. Be sure to inform them beforehand. If the equipment is found faulty, it must be fixed instantly and maintained regularly. Please check the current in the power supply of the fire alarm system, the voltage of the backup battery and also discharge time of the backup battery.

Turn to the test mode to test if all the indicators can light and buzzers can beep.

And also check to see whether any detectors/manual call points are detective or exist any broken glass shields or not.

Ensure that no faults in the whole wiring system.

Make sure if any ground fault is in the AC input contacts.

■ 6. Trouble Shooting V/32

Trouble Shooting

1. **Normal Status:** This system is composed of several devices and it will be affected by defective and improper use of detectors, wiring, bells, and manual call points.
 - a. Use a multi-meter to test the voltage in the AC input contacts.
 - b. Check that the Power Normal indicator can shine or not.
 - c. Inspect whether any fuses are burned out.
 - d. Check that the external devices and wiring are normal or not.
2. **Fuse Function:** There is a special protective function in the fuses in the panel, so do not use unspecified or poor quality products. Faulty external wiring and poor quality products will make fuses burn out.
 - a. AC: Normal power AC fuse (2A).
 - b. BATT: Backup battery fuse (5A).
 - c. SND: Bell fuse (Auto-reset).
 - d. AUX: Output fuse (Auto-reset).
 - e. 24 V DC: DC power output fuse (Auto-reset).
3. **Reasons for Burned Out Fuses and Inspection Notes:**
 - a. AC power fuse burn out: Check whether the applied power is over the specified load and if the specification is correct. (Using a fuse lower than specified load will cause the fuse burn out)
 - b. Backup battery fuse burn out: Check whether the polarity of the contacts is right.
4. **False Bell Alarm:** The improper wiring can make the bell sound when no alarm signal is given. Please remove the external wiring and then use a multi-meter to test the bell's contacts which shouldn't give 24V DC reading. If it meets the mentioned requirement, please check the external wiring.
5. **Zone Abnormal Status (Indicator ON):** According to the statistic, most zone faults are due to incorrect wiring. Some other reasons for fault are improper use and misconnection to contacts.
 - a. Check the unused zones to see if the end of line resistors have come adrift.
 - b. Disconnect the zone wiring and connect a 4.7K ohms resistor across the contacts. The fault signal should disappear.
 - c. If above conditions are met, the control panel is in normal condition. The fault signal may be caused by faulty external wiring. After repairing the external wiring, you may connect the wiring to the control panel again.
 - d. Check whether the external wiring is short circuited or disconnected, detectors have come adrift or not, and if the end of line resistor in detectors have come adrift or even was not installed.
 - e. Use a multi-meter to check that the resistance across the Z+ and Z- contacts is about 4.7K ohms.
 - f. Disconnect the wires connected to the contacts Z+ and Z-. Make sure that the voltage across the two wire is 0 volt.

■ 6. Trouble Shooting **V/32**

Trouble Shooting

6. False Zone Alarm Inspection notes:

- a. Disconnect the faulty zone and check the resistance across the Z+ and Z- wires is about 4.7K ohms.
- b. Disconnect the faulty zone and the Zone Alarm indicator will go out and the Zone Fault/Disable indicator will light up. If you would like to make the Zone Fault indicator go off, you should install the end of line resistor across the Z+ and Z- contacts of the Zone. After repairing the wiring, please reconnect the external wiring.

7. General Specifications VV/32

General Specifications

- Main Power Source

- Input Voltage _____ 100V AC~240V AC
- Frequency _____ 50Hz-60Hz
- Fuse _____ 2A
- Nominal Output Voltage _____ 27V

- Standby Power

- Battery Consumption _____ 24V/4Ah ; 24V/7Ah
- Charge Voltage _____ 27V DC
- Fuse _____ 5A
- Output Voltage _____ 17~27.8V DC

- Single Zone

- Voltage _____ 24V DC
- Terminal Resistor _____ 4.7KΩ
- Maximum sensor's connection (Smoke Detector) _____ 30
- Manual Call Point Resistance _____ 220Ω/1W

- Area Sounding/ Alarm

- Voltage _____ 24V DC
- Maximum Supply Current _____ 1A
- Terminal Resistor _____ 4.7KΩ
- Fuse _____ 1A(Auto Reset)

- Relay Output

- Maximum Voltage _____ 250V AC/30V DC
- Maximum Supply Current _____ 1A

- AUX & 24V Output Voltage

- Voltage _____ 24V DC
- Maximum Supply Current _____ 1A
- Fuse _____ 1A(Auto Reset)

- Connecting Cable

- Cable's Semi-Diameter _____ 1.5mm²
- Maximum Supply Current _____ 2A

- Ambient Temperature

- Operating Temperature _____ -7°C ~ +45°C
- Storage Temperature _____ -10°C ~ +70°C

- Standard

- Fire Alarm Control Panel _____ EN54-2
- Power Source _____ EN54-4
- Instruction Policy (Design, Install, Plan , Usage....) _____ EN54-14

■ Note

V/32



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VIVID32 OPERATING manual

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