



***OPERATING
manual***

***FIRE ALARM
CONTROL PANEL***

VIVID32

HORING LIH INDUSTRIAL CO., LTD.

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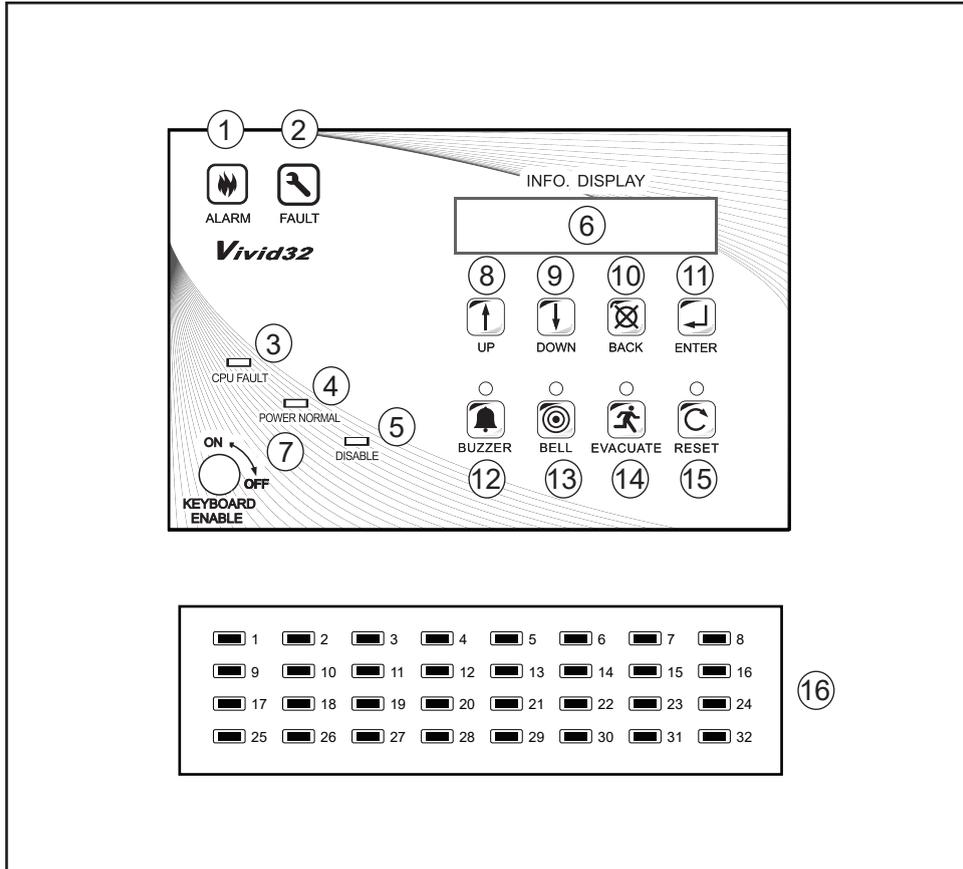
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■ 1. System Characteristics **V/32**

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, EVACUATE, 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. 4 sets of sounder outputs.
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



- | | |
|---------------------------|-------------------------------|
| 1. Fire Alarm Indicator | 9. "DOWN" Switch |
| 2. Fault Indicator | 10. "BACK" Switch |
| 3. CPU Fault Indicator | 11. "ENTER" Switch |
| 4. Power Normal Indicator | 12. Buzzer Mute Switch |
| 5. Disable Indicator | 13. Alarm Bell Silence Switch |
| 6. LCD Screen | 14. Evacuate Switch |
| 7. Keyboard Enable Switch | 15. System Reset Switch |
| 8. "UP" Switch | 16. Zone Status Indicators |

2. Control Board Description

2.1 LED Indicators

1. **Fire Alarm Indicator:** A red light lit indicates the panel is receiving a fire alarm signal. When it is in alarm delay status the red light will flash.
2. **Fault Indicator:** A yellow light indicates a fault in the fire alarm system.
3. **CPU Fault Indicator:** A yellow light indicates the CPU is not normal .
4. **Power Indicator:** A green Light indicates the AC power and standby power is in normal condition. A yellow light lit indicates the AC power failure. A yellow light flash indicates the standby power failure.
5. **Disable Indicator:** A yellow light 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 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:** Press UP switch to view the information, select the system setup menu and can be used to increase the value.
9. **Down Switch:** Press DOWN switch to view the information, select the system setup menu and can be used to decrease the value.
10. **Back Switch:** Press BACK switch to return to the previous item of system setup selection list or shift to the previous digit.
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.
12. **Buzzer Mute Switch:** A buzzer on the panel beeps during alarm and fault status. Press “BUZZER” switch once to stop the buzzer temporarily. A yellow indicator will light. (The buzzer will become active again if the panel detects any 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 it is in alarm status, press “BELL” switch to mute the bells which are connected to the panel. A yellow indicator will light. Press the “BELL” switch again to remove the mute. The indicator light will go off.
14. **Evacuate Switch:** When it is in alarm delay status, press “EVACUATE” switch to enable the general alarm immediately. A yellow indicator will light.

■ 2. Control Board Description

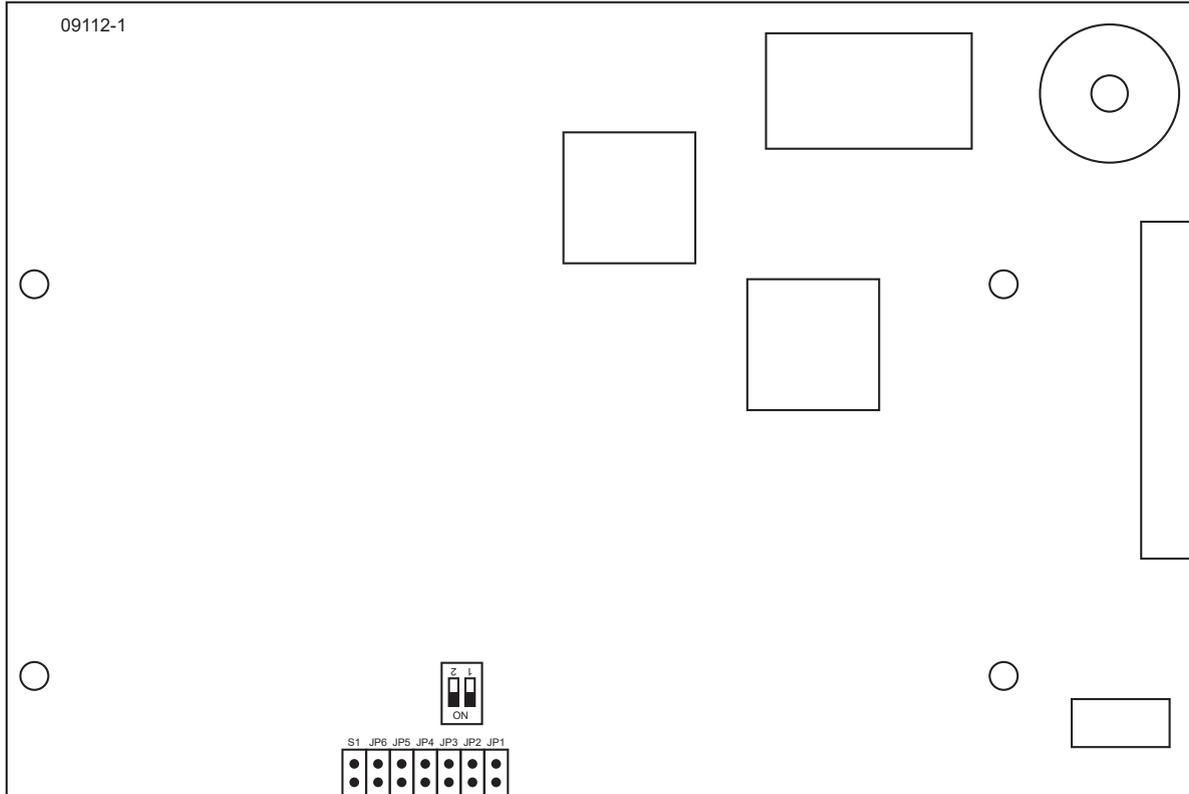
V/32

- 15. System Reset Switch:** Under Access LEVEL 2 and LEVEL 3, Press “RESET” switch to reset the panel 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 panel finishes resetting in 5 seconds.
- 16. Zone Status Indicators(optional):** 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

V/32

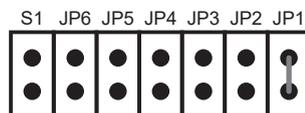
2.3 JUMP Set-up (Access Level 4)



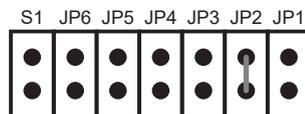
17. Zone Number Set-up (JP1,JP2,JP3,JP4,JP5,JP6): The Z1 ~ Z32 circuit is set in binary jumper. After setting, press "RESET" switch to update the zone number.

For example:

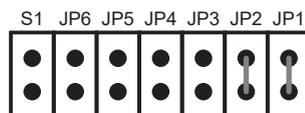
1.Z1 Set-up:JP1 Short; JP2,JP3,JP4,JP5 and JP6 Open



2.Z2 Set-up: JP2 Short; JP1,JP3,JP4,JP5 and JP6 Open

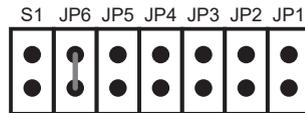


3.Z3 Set-up: JP1 and JP2 Short; JP3,JP4,JP5 and JP6 Open



2. Control Board Description

4.Z32 Set-up: JP6 Short; JP1,JP2,JP3,JP4 and JP5 Open



18. Access Level 3 Decoder (S1): Short circuit S1 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)

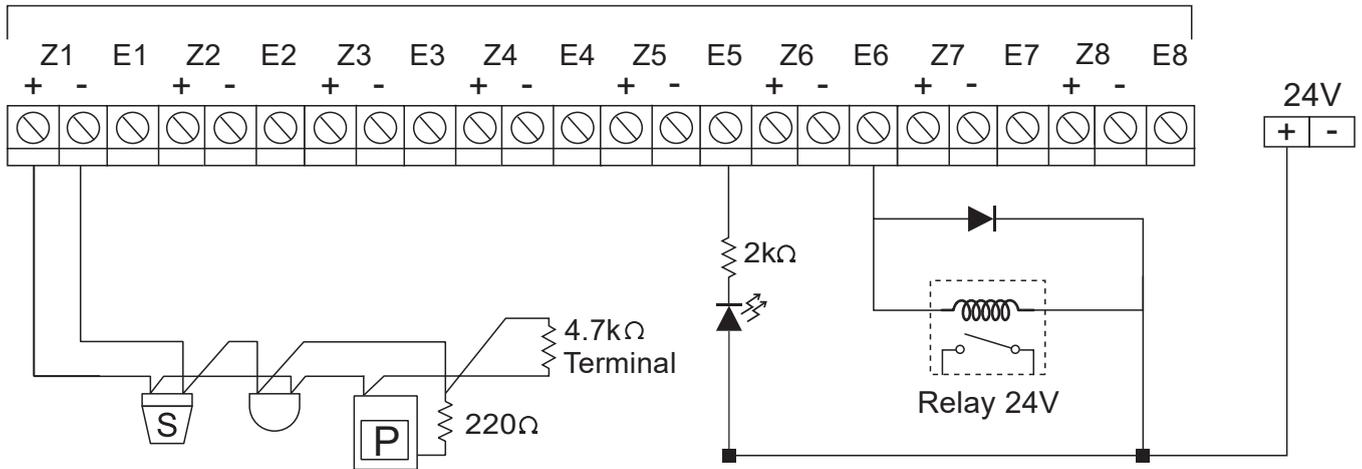
LEVEL 4

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)

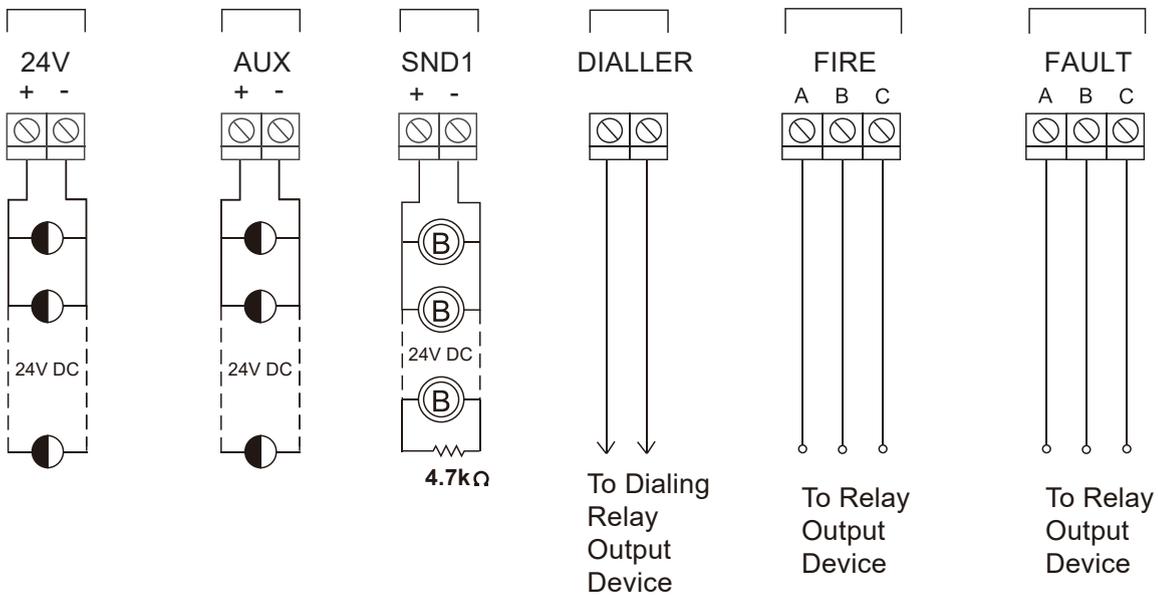
Note: The authorized technician can repair or replace the components.

3. Wiring Diagram

3.1 Zone Input/Output



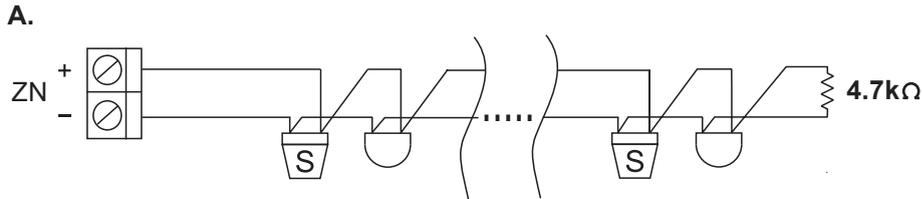
Indicating Lamp 24Vdc Output Sounder Dialler Output Fire Relay Output Fault Relay Output



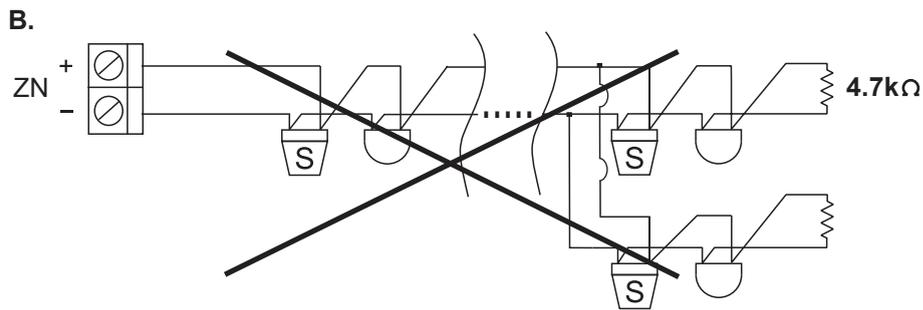
Fire Relay Output & Fault Relay Output (More details on 3.6 Fire/Fault Relay Output Contacts)

3. Wiring Diagram

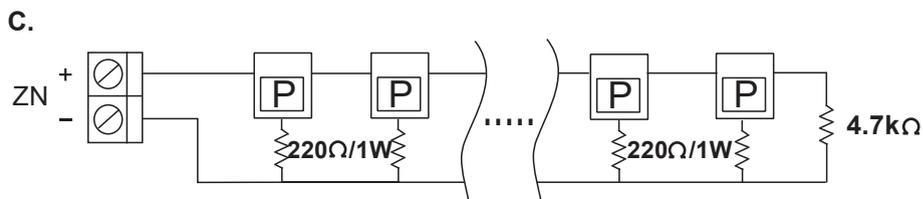
3.2 Zone Wiring:



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.)

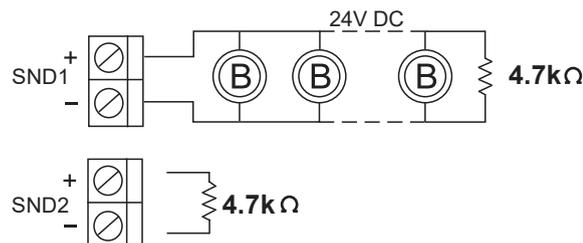


Wiring Diagram B is an improperly connected one. Do not connect a detector or an end of resistor with another detector in parallel way.



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.

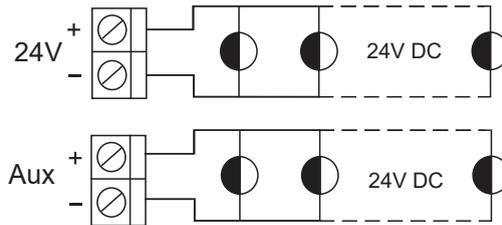
3.3 Alarm Bell Wiring:



Fire alarm control panel is equipped with two 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.

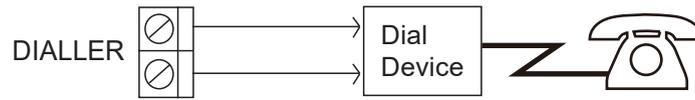
3. Wiring Diagram

3.4 24V DC Output Wiring:



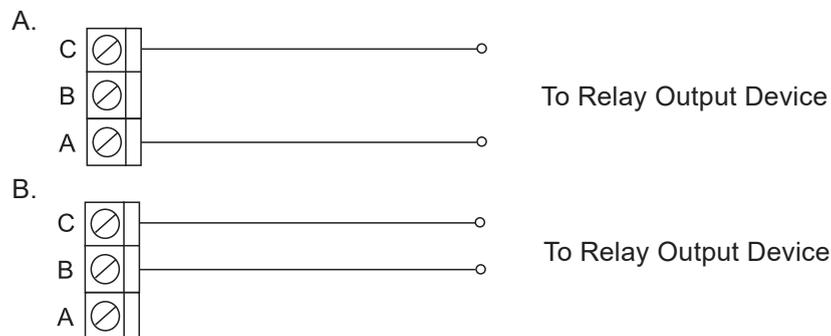
The contacts marked “24V” are controlled by the reset switch but the contacts marked “AUX” are not. When connecting the indicating lamp to the contacts, please connect the red wire to the “+” and the black wire to the “-” contact at the same time.

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:

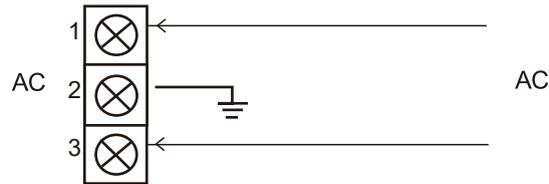


In picture A shows N.O. connection.

In picture B shows N.C. connection.

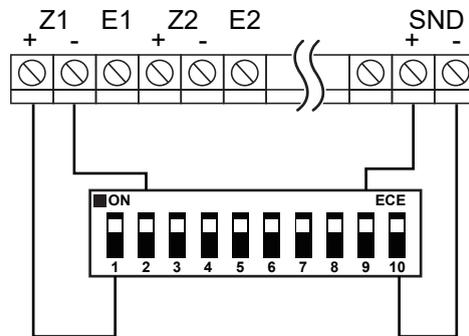
3. Wiring Diagram

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 loop has connected to devices.
(including detector or sounder).

ON: Set the switch to ON and loop 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 V/32

4.1 Information Function Screen

System Normal
2017/01/21 16:38.58

Fire Alarm Control Panel is in surveillance status.

※Keylock Off
2017/01/21 16:38.58

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 fault signal, the first line shows the latest alarm zone number, the second line shows the resent alarm zone number and the number of events.

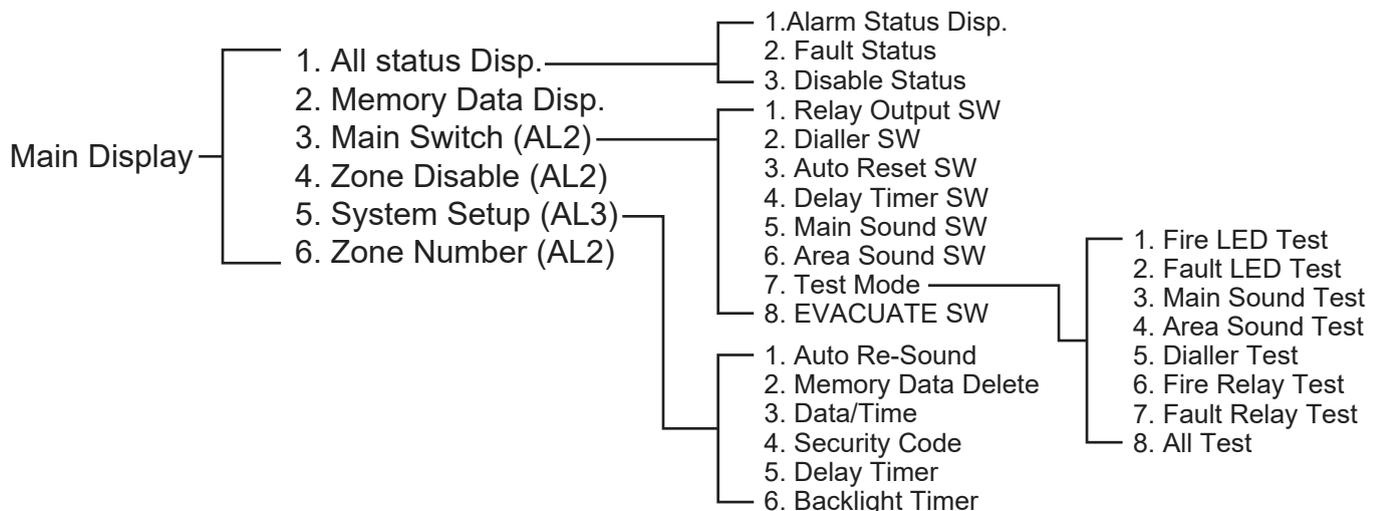
H01 0009 Zone Open
2017/01/21 16:38.58

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 !
2017/01/21 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 and it will disappear when the SND fault released.

4.2 Menu Description



4. Operating Instructions

1. All Status Disp.

1-1. All Status Disp. - Check Alarm Data:

System Normal
2015/01/21 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.

0001 0008 Zone Alarm
2015/01/21 16:38.58

The number in the upper left-hand corner is a sequence of signals. For example, “0001” is the first signal. The number in the upper middle screen shows the zone number. The upper right-hand corner shows the type of signal, Alarm or Fault. 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 Disp. selection list.

No Alarm Signal

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

1-2. All Status Disp. - 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.

0001 AC Fault
2015/01/21 16:38.58

The number in the upper left-hand corner is a sequence of signals. For example, “0001” is the first signal. The upper right-hand 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 alarm information.

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

4. Operating Instructions V/32

No FaultSignal

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

1-3. All Status Disp. - Check Disable Data:

2.Fault Status Disp.
▶ 3.Disable Disp

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

Zone Disable : 0001
01 ZONE Disable

The upper right-hand corner is a number of the disabled loops. Press the "↑ Up" or "↓ Down" switch in the lower to switch the disabled loops. Press the "⏪ Back" switch to return to Alarm Status Disp. selection list.

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 0008 Zone Alarm
2015/01/21 16:38.58

In the upper left-hand 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-hand shows the type of signal. The lower screen displays the time and date of the event.

M002 0001 Zone Fault
2015/01/21 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.

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

Press the "↑ Up" or "↓ Down" switch to select the item.
Press the "↵ Enter" switch to enter the selection item.

4. Operating Instructions

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.

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.

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.

3-4. Delay Timer SW– Enable or disable the alarm delay timer switch:

Delay Timer SW
* Enable Disable

Press the “ Enter” to choose enable or disable.
Press the “ Back” to return to the main selection list.

3-5. Main Sound SW–Enable or disable the long-term silence to control panel buzzer : (non-compliance with EN54-2)

Main Sound SW
* Enable Disable

Press the “ Enter” to choose enable or disable.
Press the “ Back” to return to the main selection list.

3-6. Area Sound SW- Enable or disable the long-term silence to area sounder (SND) : (non-compliance with EN54-2)

Area Sound SW
* Enable Disable

Press the “ Enter” to choose enable or disable.
Press the “ Back” to return to the main selection list.

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. Operating Instructions V/32

3-7-1. Fire LED Test - Zone Fire Status Test :

Zone Fire LED Test ▶ Z01 Enable * Disable
--

Press the “ 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.

3-7-2. Fault LED Test - Zone Fault Status Test :

Zone Fault LED Test ▶ Z01 Enable * Disable

Press the “ 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.

3-7-3. Main Sound Test - The control panel buzzer Test : (non-compliance with EN54-2)

Main Sound 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.

3-7-4. Area Sound Test –The area sounder (SND) Test : (non-compliance with EN54-2)

Area Sound 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.

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. Operating Instructions

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: Fire Relay disable or System Fire Alarm.

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: Fault Relay disable or System Fire Alarm.

3-7-8. All Test – For all indicators and main sound test :

.....
..... Test

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

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. 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

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
confirm

Press the “ Enter” switch to confirm and enter the System Setup selection list.

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
* 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.

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.

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 2017/01/21 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 2017/01/21 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 2017/01/21 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 2017/01/21 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 2017/01/21 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 2017/01/21 16:40
Complete

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

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 (code 1). 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 Login Code:0000
Code 1 ^

Input a new 4-digit security code.

AL3 Login Code: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
Confirm

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

4. Operating Instructions

5-5. Delay Timer - Set fire alarm signal delay time :

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 Sce 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.

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 Sce ok?

Press the “ Up” or “ Down” switch to increase or decrease the value.

The time option are 10, 20, 30, 40, 50 and 60 Sceonds.

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.

6. Zone Number & ROM Edition - Display the control panel 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. 170620

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 72 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 defective 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 220V AC fuse (1A).
 - b. BATT: Backup battery fuse (2A).
 - 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 L(Z+) and LC(Z-) contacts is about 4.7K ohms.
 - f. Disconnect the wires connected to the contacts L and LC. 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 L and LC 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 Faulty indicator go off, you should install the end of line resistor across the L(Z+) and LC(Z-) contacts of the Zone. After repairing the wiring, please reconnect the external wiring.

7. General Specifications

General Specifications

- Main Power Source

- Input Voltage _____ 220V AC
- Frequency _____ 50Hz-60Hz
- Fuse _____ 1A

- Standby Power

- Battery Consumption ____ 8L:24V/1.2Ah;16L,24L,32L:24V/4Ah
- Charge Voltage _____ 24V DC/1.2Ah
- Fuse _____ 2A

- Single Loop

- 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(Auto Reset)

- AUX & 24V Output Voltage

- Voltage _____ 24V DC
- Maximum Supply Current _____ 2A
- Fuse _____ 2A(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



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VIVID32 OPERATING MANUAL

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