User Manual

VERBENA ADDRESSABLE FIRE ALARM PANEL

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INTRODUCTION

General Description

Verbena Analogue addressable fire panel with maximum coverage of 1024 zones and 250 addressable devices connecting to each loop. There are two loops in each loop card and up to eight loop cards can be registered in a panel. The panel supports verbena communication protocol. An arbitrary number of devices can be added to each zone thus ensuring the easy adaptation of the system to any type of configuration. To avoid or significantly diminish problems when mounting the system, it must be carefully planned prior to installation. This includes: establishing an address for every device and planning a name of maximum 26 digits (including the spaces) for each address, thereby ensuring easy access to the device.
According to the acting standards for establishing fire systems and the plan of the building, the devices must be grouped in zones.

a. General Specifications

The front panel consists of color graphic TFT display (dimensions 480x272) and a light emitting diode indication and a keypad. Separate operator and engineer passwords provide access to the functions of the panel. The panel has a built-in real time clock and calendar, allowing day and night time modes of work. Switching over between the two modes can be automatic. Events like FIRE, RESET, fault, etc., are saved in the memory, thereby creating an event log-file. It contains the time and date, the address of the device, the type (module or detector), the name of the device, the zone, the name of the zone, panel number etc.

i. General Technical Specifications

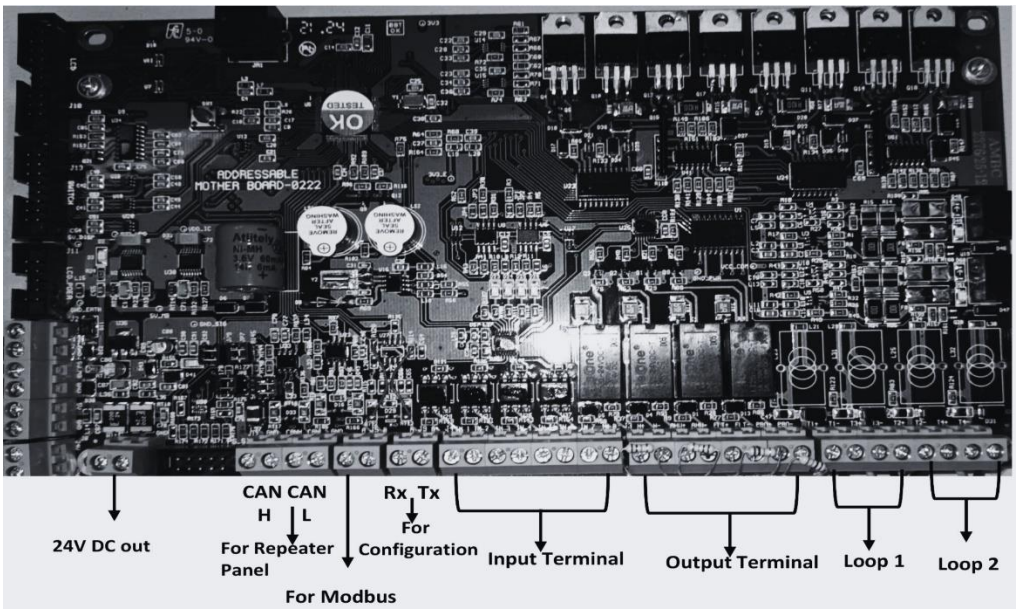
1. Works on CAN bus Communication Protocol.
2. Password Protection to prevent unauthorized operation of keypad.
3. Event logging with date and time (4000 – Fire, 2000 – Fault, 1000 – System Log).
4. 26 Character for device text makes it easy to assign big name.
5. Power supply and battery charger with all power signal.
6. Battery backup with built in charger
7. Loop card - we can add up to eight loop cards. And every loop contains two loops.
8. Up to 250 devices (detectors and modules, regardless of the type) per Loop
9. Zones - 1024 zones
10. Inputs - 4 programmable input contact (External supply needed for operation)
11. Monitored relay outputs - 4 (Sounder, Fire, Fault and Fire Protection)
12. Display - 480x272TFT (1121 characters) graphic display
13. Real time clock
14. Up to 250 programmable Inputs/Outputs per panel
15. Up to 16 timers
16. Comprehensive day/night mode facility
17. Thermal printer (optional)

ii. Possible Hardware Configuration

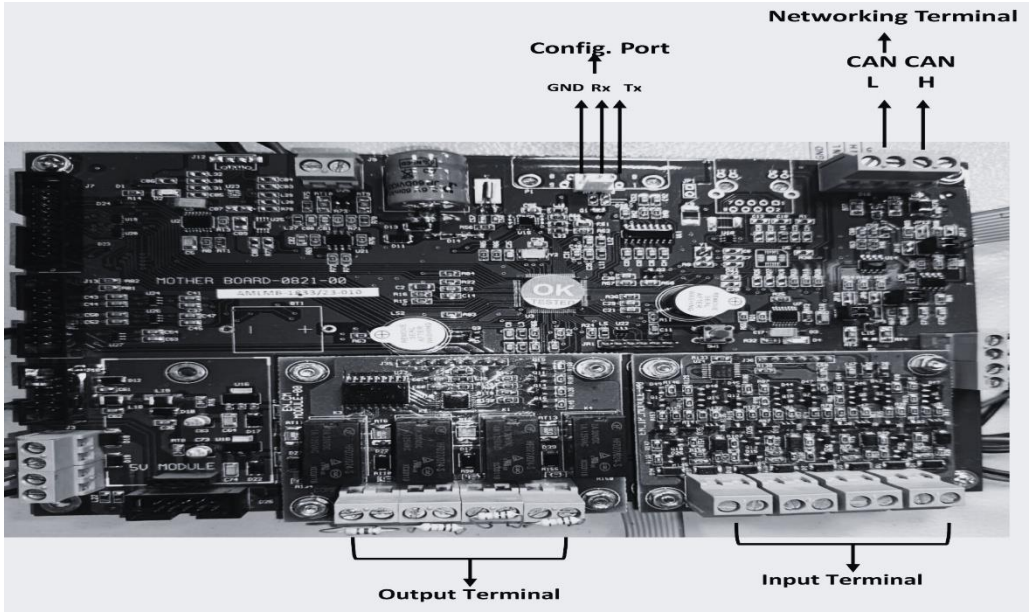
Maximum configuration:

1. Main Board

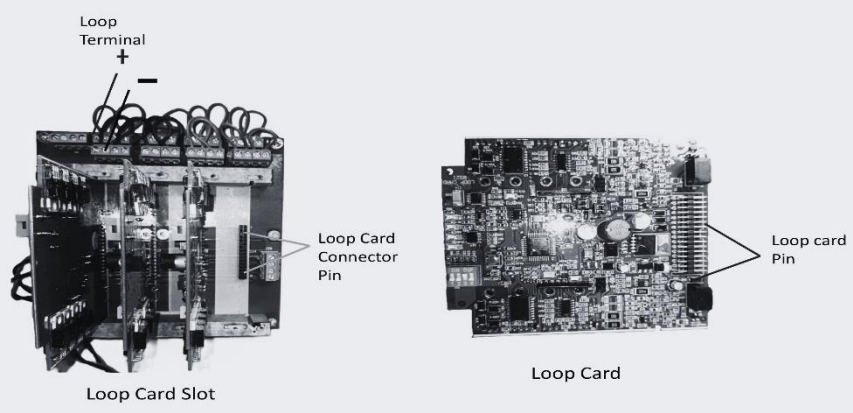
a. Single/Two Loop Panel Mother Board



b. Multi Loop Panel Mother Board



2. Multi Loop Panel Loop Card



3. Display Board

2.2.1 Front panel

LED-indication of the events provides following functions:

MAINS ON **:** Mains power indication
BATTERY MODE **:** Indication that panel running on Battery (Mains power Failure)
SYSTEM FAULT **:** General SYSTEM FAULT Indication
SUPERVISORY **:** General Indication for Silenced Sounders
DISABLE **:** General Indication for introduced Disability
NETWORK ERROR: General indication for error in network communication
EARTH FAULT **:** General indication for fault in earth
PRE ALARM **:** Indication for zones in Pre-Alarm Condition
FIRE **:** General FIRE Indication
FAULT **:** General FAULT Indication
EVACUATE **:** General indication for emergency evacuation
SILENCE **:** General indication for silence
DELAY **:** General Indication for Active Delay in any of the Outputs
DELAY OVERRIDE: General Indication for Deactivate Delay in any of the Outputs

Key Button indications and uses:

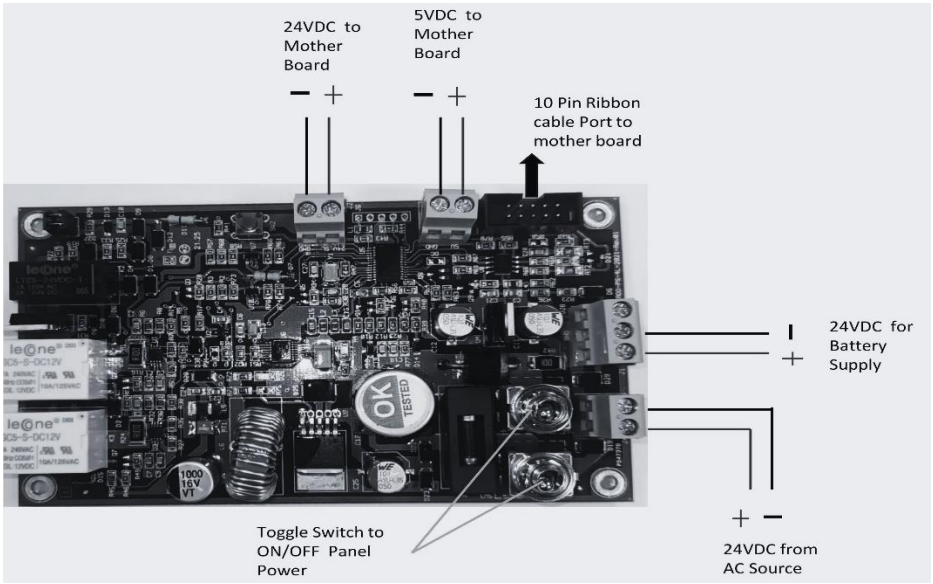
0 – 9 **:** Used to access the menu items & used to feed the device text
MENU **:** Used to access the menu of the system
Esc/Back **:** Used to return to the previous page
RESET **:** Used to reset the panel
LT **:** Used to test the LED's
SILENCEBUZZ **:** Used to silence the internal buzzer
DELAY **:** Used to Deactivate Delay in any of the Outputs
EVACUATE **:** Used to Active all the outputs in case of emergency
SILENCEALARM **:** Used to silence the alarm & deactivate the output
RE-SOUND **:** Used to activate the output which is silenced after silence alarm
BLANKBUTTON **:** Used to program the address of the device

To enter text in the panel kindly follow the instructions mentioned below:

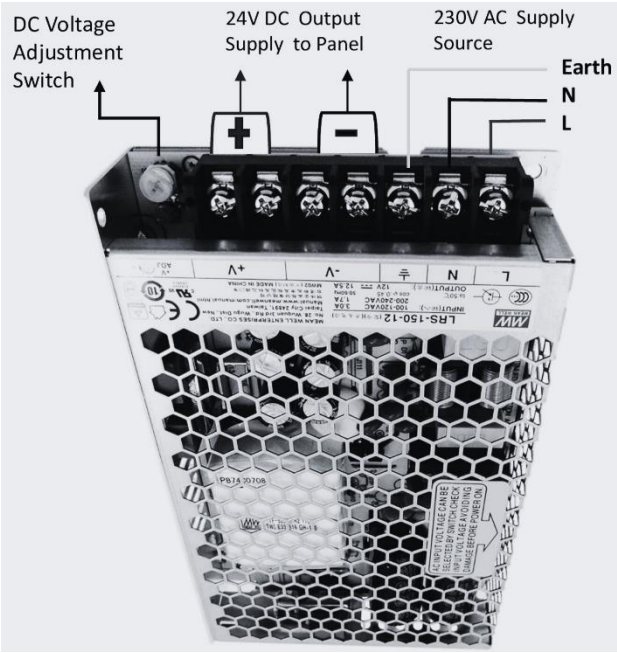
1. [: Press key 1 single time to enter the sign.
2.] : Press key 1 double times to enter the sign.
3. / : Press key 1 triple times to enter the sign.
4. 1 : Press key 1 four times to enter the sign.
5. A : Press key 2 single time to enter the sign.
6. B : Press key 2 double time to enter the sign.
7. C : Press key 2 triple time to enter the sign.
8. 2 : Press key 2 four time to enter the sign.
9. D : Press key 3 single time to enter the sign.
10. E : Press key 3double time to enter the sign.
11. F : Press key 3 triple time to enter the sign.
12. 3 : Press key 3 four time to enter the sign.
13. G : Press key 4single time to enter the sign.
14. H : Press key 4double time to enter the sign.
15. I : Press key 4triple time to enter the sign.
16. 4 : Press key 4four time to enter the sign.
17. J : Press key 5single time to enter the sign.
18. K : Press key 5double time to enter the sign.

19. L : Press key 5triple time to enter the sign.
20. 5 : Press key 5four time to enter the sign.
21. M: Press key 6single time to enter the sign.
22. N : Press key 6double time to enter the sign.
23. O : Press key 6triple time to enter the sign.
24. 6 : Press key 6four time to enter the sign.
25. P : Press key 7single time to enter the sign.
26. Q : Press key 7double time to enter the sign.
27. R : Press key 7triple time to enter the sign.
28. S : Press key 7four time to enter the sign.
29. 7 : Press key 7five time to enter the sign.
30. T : Press key 8single time to enter the sign.
31. U : Press key 8double time to enter the sign.
32. V : Press key 8triple time to enter the sign.
33. 8 : Press key 8four time to enter the sign.
34. W: Press key 9single time to enter the sign.
35. X : Press key 9double time to enter the sign.
36. Y : Press key 9triple time to enter the sign.
37. Z : Press key 9four time to enter the sign.
38. 9 : Press key 9five time to enter the sign.
39. SPACE : Press key 0single time to enter the sign.
40. &: Press key 0double time to enter the sign.
41. # : Press key 0triple time to enter the sign.
42. 0 : Press key 0four time to enter the sign.

4. Power supply Board



Main power supply



In normal operating conditions the fire panel is powered from the mains voltage line. In case of mains voltage line loss, the fire panel is equipped with one rechargeable battery. The characteristics of the main power supply are as follows:

1. Main Power Supply : ~230V ±10%
2. Frequency : 50Hz
3. Electrical output: 8.5A

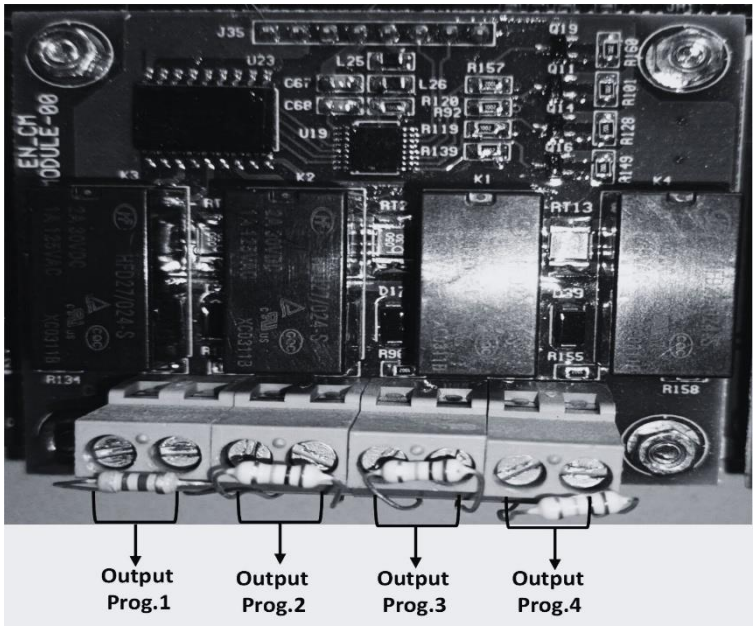
Battery Power Supply

4. Voltage output (U): 24V
5. Current output (I): 8.5A
6. Number of the Batteries: 2, 12V/ 7Ah min

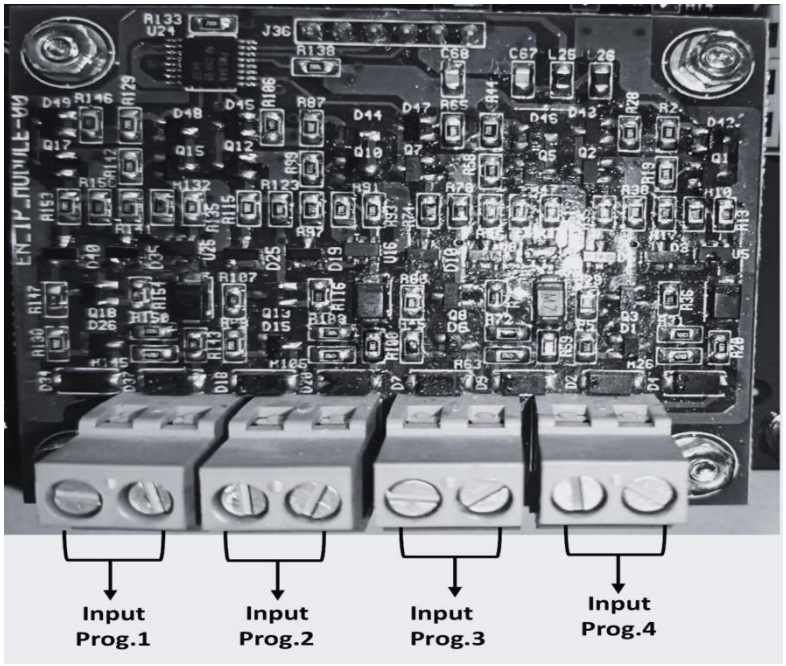
List of the fuses

7. General Power Supply: 2A, T Type
8. Outputs: 0,3A, PTC Type

5. Output Port



6. Input Port



7. Thermal Printer (optional)

iii. Working Environment

1. Working Temperature : -05˚C up to +70˚C
2. Relative Humidity : up to 95% (without condense)
3. Storage Temperature : -05˚C up to +60˚C
4. Weight (without the battery): 10kg.

iv. Electrical Specifications

Earth connection

The earth connection has to be realized in accordance with the rules for the electrical safety with the total resistance in the circuit lower than 10Ω. It is mandatory to connect the main power supply cable to the middle input of the fire panel terminal.

2.2.2 Connecting devices to the Outputs Module

The monitored outputs SND, FIRE R, FIRE P and FAULT R, at activation, provide 24VDC@0.125A to the load connected between them and GND. It is necessary to connect in parallel to the last device in the loop a 10k terminate resistor, so to ensure that the panel is able to detect any break or short circuit in the loop (refer to fig.6).

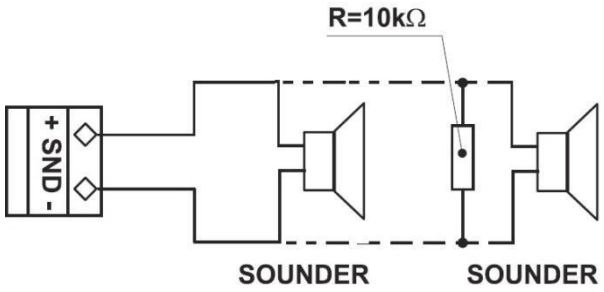
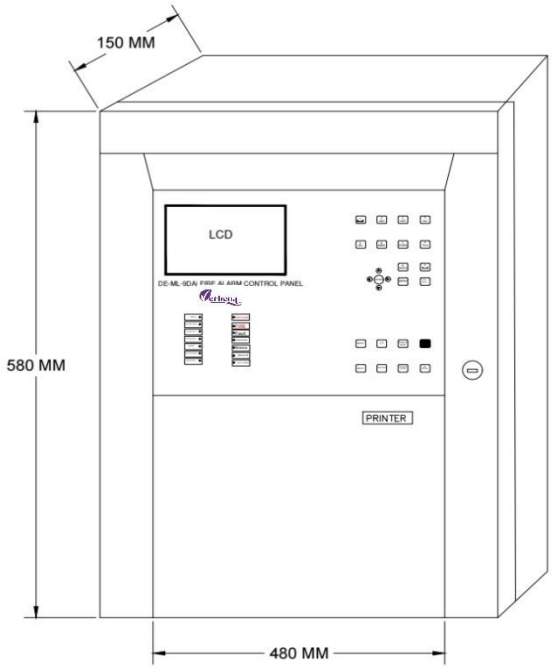


Fig. 6

The maximum number of sounders that could be connected in the circuit depends on their total current consumption, which must not exceed 0. 125A.Before connecting the last sounder in the circuit parallel to it must be added resistor 10k.

2.2.3 Architectural Image



3.1 NORMAL SCREEN: -

The normal screen (Fig.10) of the panel contains the information as mentioned below:

1. Current Day, Date, Time,
2. Type of mode the panel working
3. Current fire event / Total number of fire events
4. Current fault event / Total number of fault events
5. Current system fault event / Total number of system fault events
6. Current panel number
7. Company information (non – editable)
8. Site name (editable)

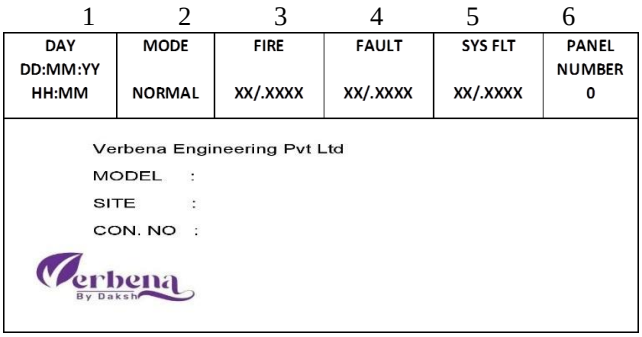


Fig.10

3.2 MENU SCREEN: -

To access the menu press menu key on keypad and the window as mentioned in (fig. 11) will appear. This screen contains the information as mentioned below: -

1. EVENT HISTORY (ACCESS LEVEL 2): This section is used to view & print the stored events of Fire, Fault, system fault etc.
2. VIEW (ACCESS LEVEL 3): This section is used to view panel settings, Associations and enabled/disabled devices.
3. EDIT (ACCESS LEVEL 4): This section is used to edit panel settings, Associations, enabling/disabling of connected devices.
4. NETWORK (ACCESS LEVEL 4): This section is used to edit the network settings.

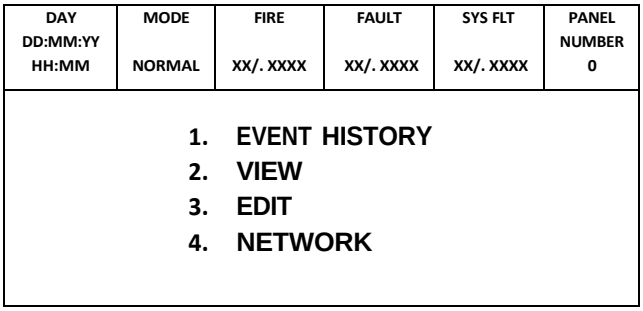


Fig. 11

3.3 PASSWORD SCREEN: -

Reference to (fig.11) pressing any key from 1 to 4 using keypad will ask for password as mentioned in (Fig.12). User will enter the default password to access the desired access level (1 to 4).

To enter in the specified menu the default passwords are mentioned below: -

1. EVENT HISTORY (ACCESS LEVEL 2) DEFAULT PASSWORD: 2222
2. VIEW (ACCESS LEVEL 3) DEFAULT PASSWORD: 3333
3. EDIT (ACCESS LEVEL 4): DEFAULT PASSWORD: 4444
4. NETWORK (ACCESS LEVEL 4): DEFAULT PASSWORD: 4444

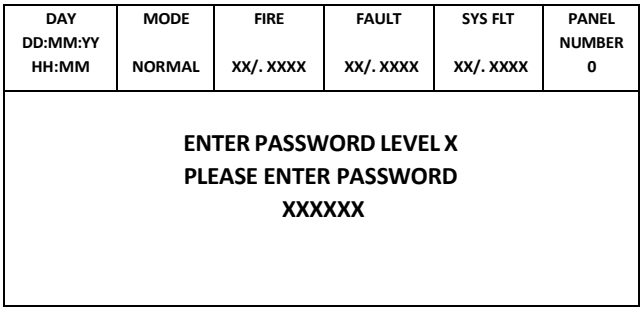


Fig. 12

3.3.1. PASSWORD RE-ENTER SCREEN: -

After entering the desired password Reference to (Fig.12) the system will ask to re-enter (Fig. 13) the password as to verify the password entered is correct or not. Please enter the password of the desired level as entered in (Fig .13).

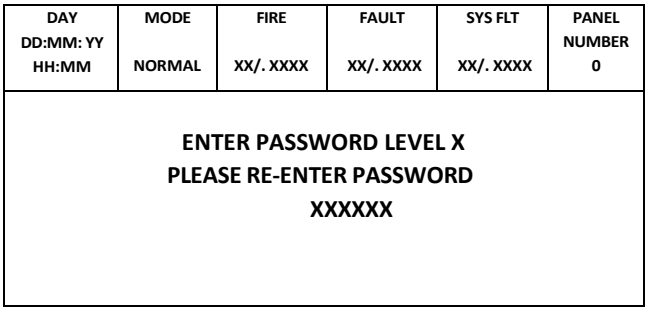


Fig. 13

3.3.2 INVALID PASSWORD RE-ENTER SCREEN: -

After entering the desired password Reference to (Fig.13), if the password entered in Fig.12& Fig.13 is mismatched then the system will generate a message mentioned in (Fig.14) & ask to re-enter the password.

DAY DD:MM:YY HH:MM	MODE NORMAL	FIRE XX/. XXXX	FAULT XX/. XXXX	SYS FLT XX/. XXXX	PANEL NUMBER 0
INVALID PASSWORD PLEASE RE-ENTER XXXXXX					

Fig. 14

4 EVENT HISTORY (ACCESS LEVEL 2): -

After entering the desired password if user entered level 1 password, then the system will display the information as mentioned in (Fig.15). From this the user can access the event history, the association configuration, the status of system and its devices etc.

DAY DD:MM:YY HH:MM	MODE EVENT HISTORY	FIRE XX/. XXXX	FAULT XX/. XXXX	SYS FLT XX/. XXXX	PANEL NUMBER XX
1. VIEW EVENT HISTORY 2. PRINT EVENT HISTORY ESC/. BACK					

Fig. 15

4.1 VIEW EVENT HISTORY: -

Press 1 from keypad to access the event log history in this user will get fire event log, fault event log, system event log, system fault event log information Refer to (Fig .16).

DAY DD:MM:YY HH:MM	MODE VIEW EVENT HISTORY	FIRE XX/. XXXX	FAULT XX/. XXXX	SYS FLT XX/. XXXX	PANEL NUMBER XX
1. FIRE 2. FAULT 3. SYSTEM FAULT 4. SYSTEM LOG ESC/. BACK					

Fig. 16

4.1.1 FIRE: -

User can access the events by various ways as mentioned below (Fig.17): -

1. If user wants to view the current event that is currently under observation, then user can select 1 from keypad.
2. If user wants to view the event via event no., then the user can select 2 from the keypad.
3. If user wants to view the event via event date, then user can select 3 from the keypad.

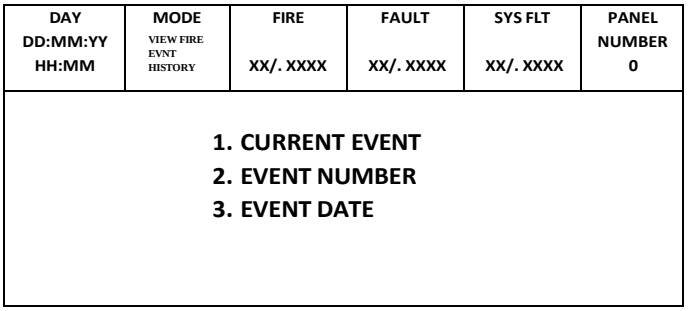


Fig.17

POPUP WINDOW: -

If there is no event present in the system then the message will be displayed as shown in Fig.18.

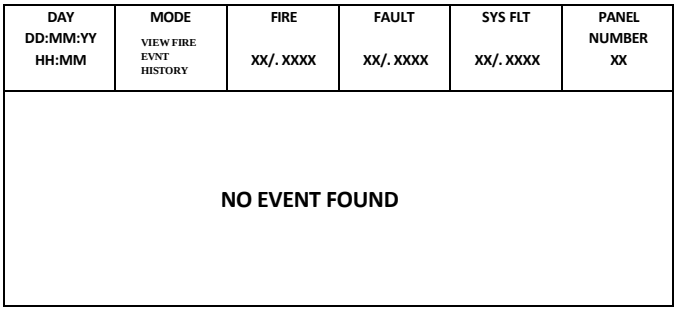


Fig. 18

4.1.1.1 CURRENT EVENT

If user wants to view the current event which is under observation, then user can press 1 from the keypad and the following window will open (refer to Fig.19)

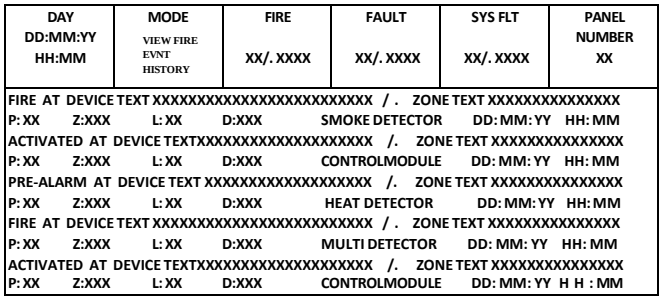


Fig. 19

4.1.1.2 **EVENT NUMBER**

If user wants to view the event via event no., then the panel will show the total number of event present in the Window "**PLEASE ENTER 1 TO XXXX"** (this is the total no. of event present in the panel) so the user will have to input the event no. from keypad within this boundary only (refer to fig.20).

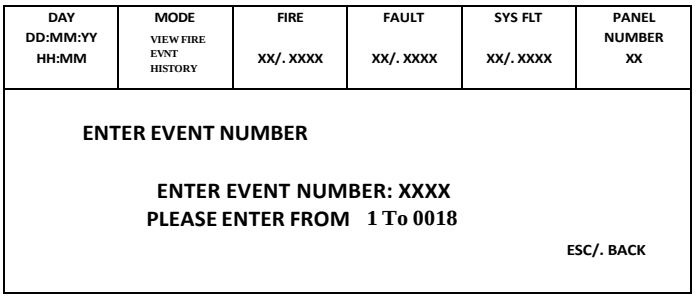


Fig. 20

If user enters the numbers more than boundary limit then screen will not go further.

4.1.1.2 EVENT DATE

If user wants to access the event through event date, then the panel will show the range of dates "**ENTER EVENT DATE FROM DD: MM: YY TO DD: MM: YY"** available on which the event is stored in the panel, so the user will have to input the event date from keypad within this boundary only. (Refer to Fig.22).

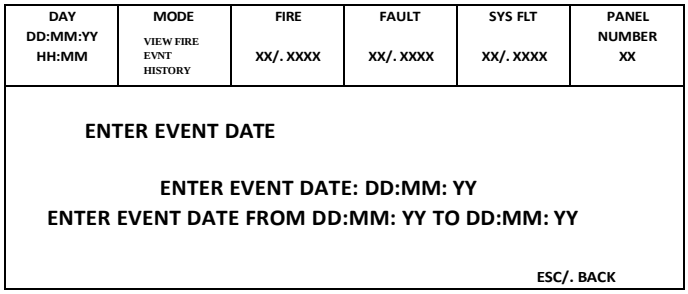


Fig.22

POPUP WINDOW

If user enters date more than boundary limit then the popup window will appear as in Fig.23.

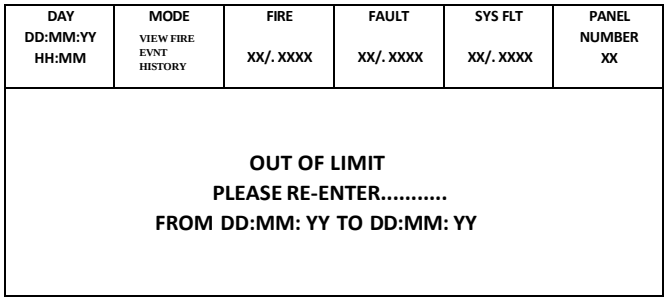


Fig. 23

If user enters correct data, then the fire event will appear as mentioned in Fig.19.

4.1.2 FAULT: -The process is same to view the fault event as mentioned from 4.1.1.1 to 4.1.1.3.

4.1.3 SYSTEM FAULT: -The process is same to view the System Fault as mentioned from 4.1.1.1 to 4.1.1.3.

4.1.4 SYSTEM LOG: - The process is same to view the System Log as mentioned from 4.1.1.1 to 4.1.1.3.

4.2 PRINT EVENT HISTORY

If user wants to print the event, then after pressing 2 from the keypad the following options will appears on screen as shown in fig 24

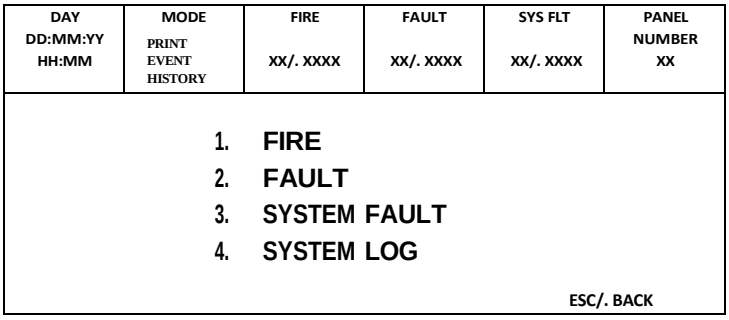


Fig.24

Select the option whose details you want to print.

4.2.1 FIRE

After selection it will ask for to choose the event either by number or by date as shown in figure 25.

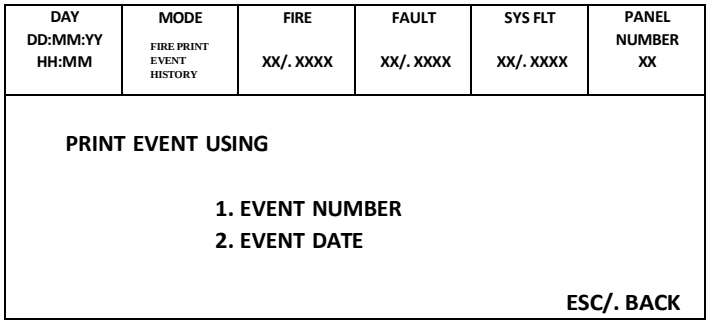


Fig.25

4.2.1.1 EVENT NUMBER

If user selects 1 .i.e. print event via event no. then the panel will show the total number of event present in the Window "**PLEASE ENTER 1 TO XXXX"** (this is the total no. of event present in the panel) so the user will have to input the event no. from keypad within this boundary only (refer to fig.26).

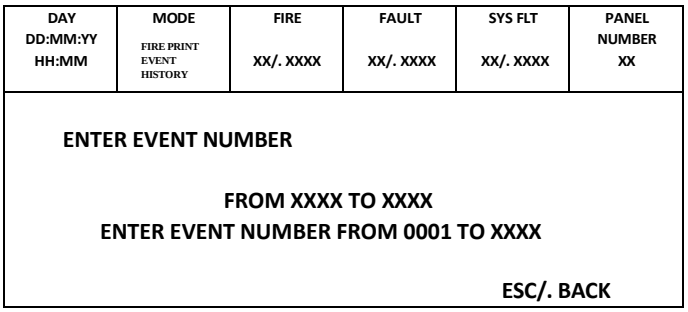


Fig.26

4.2.1.2 EVENT DATE

If user selects 2.i.e. print event via event date then the panel will show the range of dates "**ENTER EVENT DATE FROM DD: MM: YY TO DD: MM: YY"** available on which the event is stored in the panel, so the user will have to input the event date from keypad within this boundary only. (Refer to Fig.27).

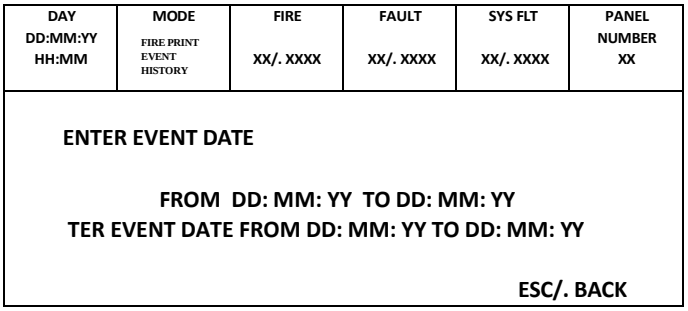


Fig.27

If there is any problem present with the thermal printer then below mentioned message will appear refer to Fig.28.

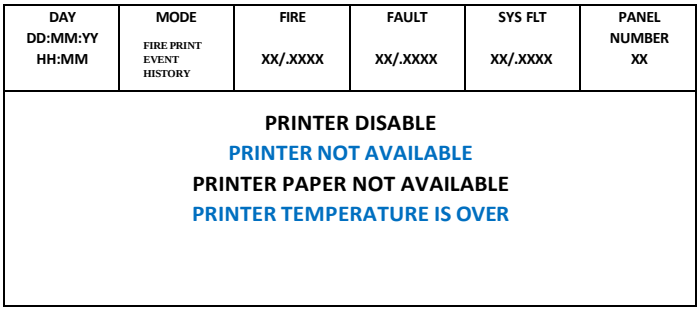


Fig.28

4.2.2 FAULT: -The process will be same to view the fault event as mentioned in 4.2.1.

4.2.3 SYSTEM FAULT: -The process will be same to view the System Fault as mentioned in 4.2.1.

4.2.4 SYSTEM LOG: - The process will be same to view the System Log as mentioned in 4.2.1.

5 VIEW: - (ACCESS LEVEL 3): -

To view the status, press respective number to choose the desired option from the keypad (refer to fig.29).

DAY DD:MM:YY HH:MM	MODE VIEW	FIRE XX/. XXXX	FAULT XX/. XXXX	SYS FLT XX/. XXXX	PANEL NUMBER XX

1. PANEL
2. DEVICE CONFIGURATION
3. ASSOSIATION
4. ZONE SETTING
5. NETWORK SETTING

ESC/. BACK

Fig:29

5.1 PANEL:

To view panel settings, press 1 from keypad as mentioned below (Fig.30).

DAY DD:MM:YY HH:MM	MODE VIEW: PANEL	FIRE XX/. XXXX	FAULT XX/. XXXX	SYS FLT XX/. XXXX	PANEL NUMBER XX

1. DAY/NIGHT MODE
2. ENABLE/ DISABLE
3. PRINTER
4. MODBUS
5. PANEL STATUS

ESC/. BACK

Fig:30

5.1.1 DAY/NIGHT MODE:

To view day/night mode press 1 from keypad. The below mentioned screen will appear refer to Fig.31. In this mode the detectors use the alarm level which has been programmed as day mode. This is usually a level of lower sensitivity. It lowers the risk of false alarms caused by dust, cigarette smoke, etc. Night time mode is opposite to the daytime mode (higher level of sensitivity). In Schedule mode the initial hour and minutes (the time when the daytime mode is activated) and the end hour and minutes (the time when the night time mode is activated) are introduced. The times are set for every day of the week. By default, the station is in day time mode.

DAY DD:MM:YY HH:MM	MODE VIEW: DAY AND NIGHT MODE	FIRE XX/. XXXX	FAULT XX/. XXXX	SYS FLT XX/. XXXX	PANEL NUMBER XX

DAY MODE SETTING

DAY	EN	TIME ON	TIME OFF
MON	□	HH : MM	HH : MM
WED	□	HH : MM	HH : MM
FRY	□	HH : MM	HH : MM
SUN	□	HH : MM	HH : MM

DAY SCHEDULE

DAY	EN	TIME ON	TIME OFF
TUS	□	HH: MM	HH: MM
THU	□	HH: MM	HH: MM
SAT	□	HH: MM	HH: MM

Enter to SAVE ESC/BACK

Fig. 31

5.1.2 ENABLE /DISABLE

To view password enabling/disabling of different access levels press 2 from keypad (Refer to fig.30) the below mentioned screen will appear refer to Fig.32.

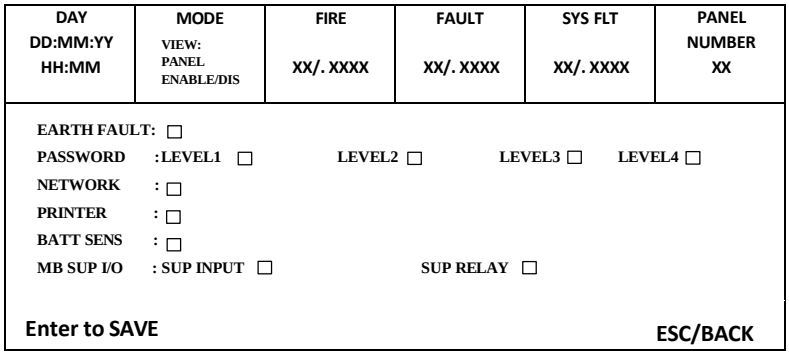


Fig.32

5.1.3 PRINTER

A user can view the printer permission by pressing 3from the keypad the window will open as mentioned in Fig.33.

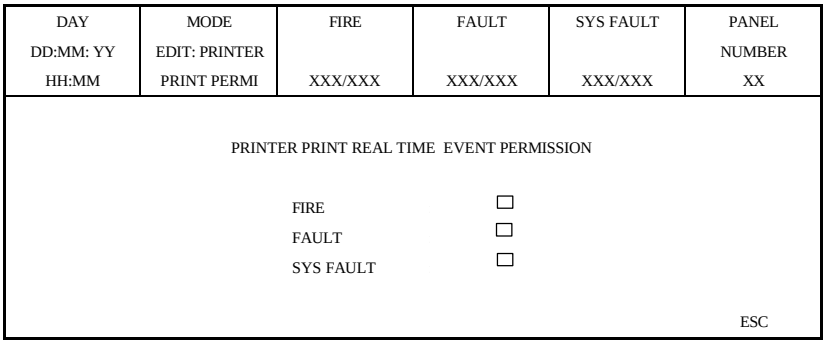


Fig.33

4.1.1 MODBUS

If user wants to view the Modbus configuration of the panel, then user can press 4 from keypad (refer to fig.30) and the following window will appear as shown in fig.34. In this the user can see the Modbus configuration of the panel

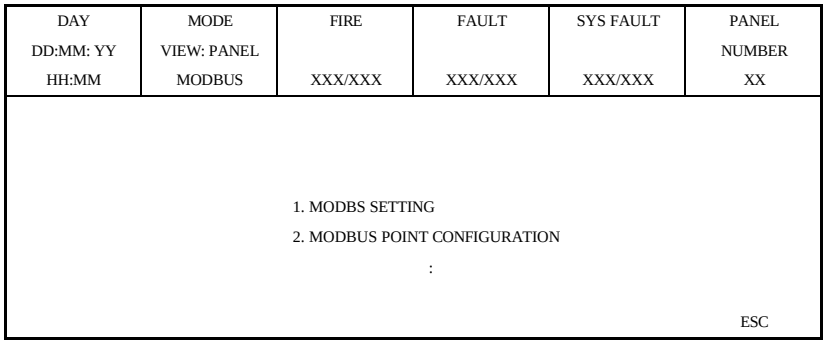


Fig. 34

Press 1 to access the settings of the Modbus refer to fig.35.

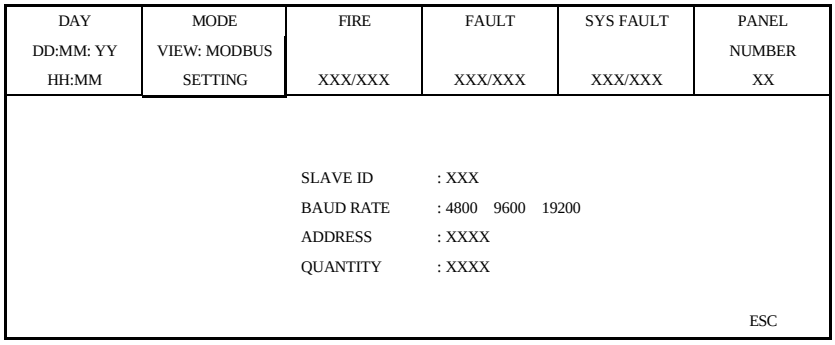


Fig. 35

Press 2 to access the configuration of Modbus refer to fig.36.

DAY DD:MM: YY HH:MM	MODE VIEW: MODBUS POINT CONFIG	FIRE XXX/XXX	FAULT XXX/XXX	SYS FAULT XXX/XXX	PANEL NUMBER XX
MODBUS POINT NUMBER: XXXX PLEASE ENTER BETWEEN 1 TO 4096 ESC					

Fig. 36

4.2 DEVICE CONFIGURATION

To modify Device configuration press 2 from keypad (refer to fig.30) the below mentioned screen will appear refer to Fig.37.

DAY DD:MM: YY HH:MM	MODE VIEW: DEVICE CONFIGURA.	FIRE XXX/XXX	FAULT XXX/XXX	SYS FAULT XXX/XXX	PANEL NUMBER XX
1. DEVICE VIEW 2. DISABLE DEVICE 3. DEVICE SETTING ESC					

Fig 37

4.2.1 DEVICE VIEW

To view Device configuration press 1 from keypad (refer to fig.37) the below mentioned screen will appear refer to Fig.38.

DAY DD:MM: YY HH:MM	MODE VIEW: DEVICE VIEW	FIRE XXX/XXX	FAULT XXX/XXX	SYS FAULT XXX/XXX	PANEL NUMBER XX
1. LOOP 1 TO 16 2. LOOP 96 INPUT 3. LOOP 96 OUTPUT ESC					

Fig. 38

4.2.1.1 LOOP 1TO 16

Select the desired loop to view the registered device in the panel by using keypad (press key 1-3).

DAY DD:MM: YY HH:MM	MODE VIEW: DEVICE VIEW	FIRE XXX/XXX	FAULT XXX/XXX	SYS FAULT XXX/XXX	PANEL NUMBER XX
LOOP NUMBER: X X PLEASE ENTER LOOP NUMBER BETWEEN 1 TO 16 ESC					

Fig. 39

After selecting the desired loop, the below mentioned screen will appear refer to fig. 40.

DAY DD:MM: YY HH:MM	MODE VIEW: DEVICE VIEW	FIRE XXX/XXX	LOOP NUMBER XX	SYS FAULT XXX/XXX	PANEL NUMBER XX
1. VIEW REGISTERED DEVICE ONLY 2. VIEW ALL DEVICE ESC					

Fig. 40

In this the user can see the registered as well as unregistered devices (connected but not registered). Their location status etc. (refer fig no 42)

DAY DD:MM: YY HH:MM	MODE VIEW: DEVICE VIEW	FIRE XXX/XXX	LOOP NUMBER XX	SYS FAULT XXX/XXX	PANEL NUMBER XX
DEVICE NUMBER :001 PLEASE ENTER DEVICE NUMBER BETWEEN 1 TO 250 ESC					

Fig. 41

DAY DD:MM: YY HH:MM	MODE VIEW: DEVICE VIEW	FIRE XXX/XXX	DEVICE NUMBER XX	SYS FAULT XXX/XXX	PANEL NUMBER XX
HEAT DETECTOR					
DEVICE LOCATION : xx ZONE NUMBER : ZONE_X: 000 ZONE_Y: 000 HEAT DAY SENSIT : << NORMAL >> HEAT NIGHT SENSIT : << NORMAL >> DEVICE STATUS : DISABLE BLINK OFF ^UP v DOWN <PREV >NEXT ESC					

Fig. 42

DAY DD:MM: YY HH:MM	MODE VIEW: DEVICE VIEW	FIRE XXX/XXX	LOOP NUMBER XX	SYS FAULT XXX/XXX	PANEL NUMBER XX
DEVICE NUMBER :001 PLEASE ENTER DEVICE NUMBER BETWEEN 1 TO 250 DEVICE NOT REGISTERED ESC					

Fig. 43

If selection goes wrong (Entered device is not existing) the screen will show as shown in fig. 43

4.2.2 DISABLED DEVICES

If user wants to view the Status of Disabled Devices in the panel, then user can press 2 from keypad (refer to Fig.37) and the following window will appear as shown in fig.44. In this the user can view the disable devices of loop 1, loop 2, loop 96 input, loop 96 output by selecting any key from 1 to 4 using keypad.

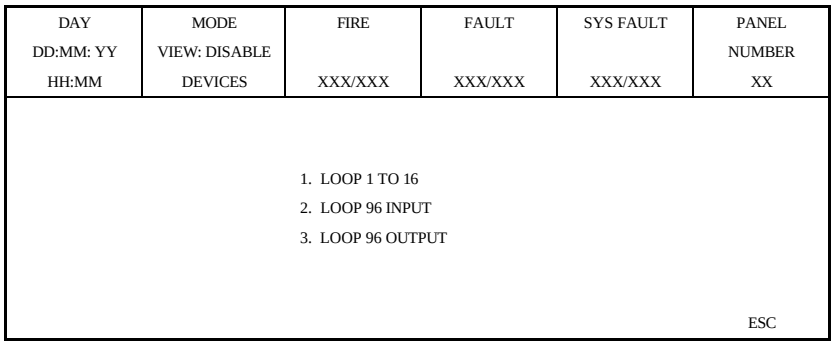


Fig. 44

In this the user can view the disable devices of loop 1 to 16, loop 96 input, loop 96 output by selecting any key from 1 to 3 using keypad. (Refer to fig. 45 and 46)

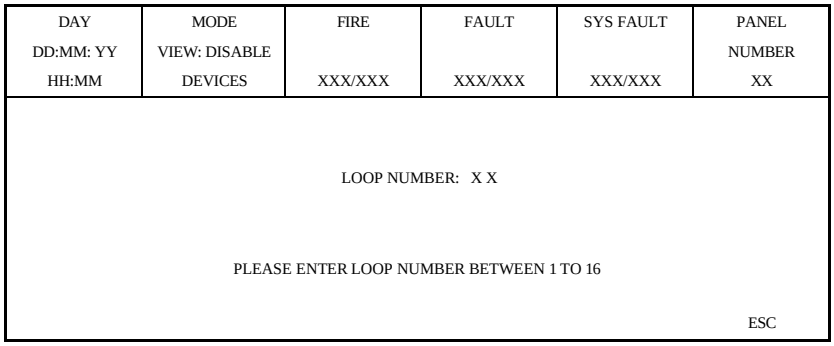


Fig. 45

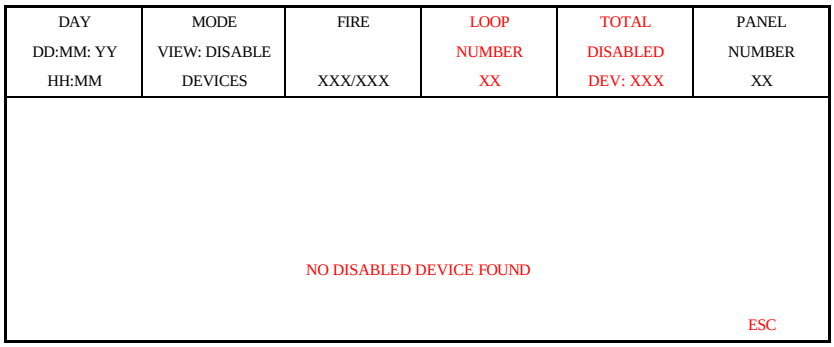


Fig 46

4.3 ASSOCIATION

To view association settings, press 3 from keypad (refer to fig.29) the below mentioned screen will appear refer to fig.47.

DAY DD:MM: YY HH:MM	MODE VIEW	FIRE XXX/XXX	FAULT XXX/XXXX	SYS FAULT XXX/XXXX	PANEL NUMBER XX
1. INPUT ASSOCIATION 2. OUTPUT ASSOCIATION 3. TIMER SETTING ESC					

Fig. 47

4.3.1 INPUT ASSOCIATION

If user wants to view the Input Association settings of the panel, then user can press 1 from keypad (refer to fig.47) and the following window will appear as shown in fig.48. In this the user will have to enter the association no from 1 to 1024 using keypad.

DAY DD:MM:YY HH:MM	MODE VIEW: INPUT ASSOCIATION	FIRE XXX/XXX	FAULT XXX/XXXX	INPUT Asso. No XXXX	PANEL NUMBER XX
INPUT ASSOCIATION ASSOCIATION NUMBER : XXXX PLEASE ENTER ASSOCIATION NUMBER BETWEEN 1 TO 1024 ESC					

Fig. 48

If user enters correct data, then the following window will appear as shown in fig.49.

DAY DD:MM: YY HH:MM	MODE VIEW: INPUT ASSOCIATION	FIRE XXX/XXX	FAULT XXX/XXXX	INPUT Asso. No XXXX	] ANEL NUMBER XX
INPUT DELAY : XXX Sec I/P FROM : L ☐ ZONE ☐ TIMER ☐ GEN ☐ N/W ☐ L96 ☐ SUP_I ☐ LOOP NUMBER : XX DEV NUMBER : XX ☐ DEVICE : DETECTOR ☐ EVENT TYPE << FIRE >> ^UP v DOWN ESC					

Fig. 49

The Parameters shown in fig.49 is mentioned below:

1. **INPUT DELAY**: The delay can be within the interval (0-255) multiplied by10 sec. User Can enter the data by using Keypad.
2. **TYPE**: This shows the associated Parameter of the system like: Loop, Zone, Timer, General, Network, Loop 96, Supervisory.

LOOP: If loop is selected then (refer to fig.96)
Loop number: Loop number of the device (1, 2, and 96).
Device Number: Address of device from 1 to 250.
Function: As per the device the following Parameter like: Fire, Fault, Input. will be selected.
ZONE: If zone is selected then (refer to fig.97)
ZONE NUMBER: Enter zone number to which the user wants to assign the Device from 1-128.
FUNCTION: Select the function of zone for which the user wants an event.

TIMER: *TIMER NUMBER:* Enter timer number from 1-16 to which the user wants to

Create an event.

**This field is used generate an alarm on the specific day or date of the week with specific time. Please refer to timer association for more information.*

GENERAL: General status which will activate the input of the device. The possible statuses can be

COMMON FIRE, COMMON PREALARM, COMMON FAULT, SYSTEM FAULT, DISABLED, RESET, SILENCE, TEST

NETWORK: If Network is selected then enter panel number and output number,

To which the input shall be attached
PANEL NUMBER: Enter a number from 1 to 64.
OUTPUT ASSOCIATION NUMBER: Enter a number from 1 to 250.

LOOP 96: If Loop 96 is selected then.

LOOP 96 INPUT NUMBER: Enter a number from 1 to 96.
FUNCTION: As per the device the following Parameter like: Fire, Fault, Input will be selected.
After seeing all the parameters Press ESC/BACK

4.3.2 OUTPUT ASSOCIATION

If user wants to view the Output Association setting of the panel, then user can press 2 from keypad (refer to fig.47) and the following window will appear as shown in fig.50. In this the user will have to enter the association no from 1 to 250 using keypad.

DAY	MODE	FIRE	FAULT	OUTPUT	PANEL
DD:MM: YY	VIEW: OUTPUT			Asso. No	NUMBER
HH:MM	ASSOCIATION	XXX/XXX	XXX/XXXX	XXXX	XX

OUTPUT ASSOCIATION

ASSOCIATION NUMBER : XXXX

PLEASE ENTER ASSOCIATION NUMBER BETWEEN 1 TO 1024

ESC

Fig. 50

If user enters correct data, then the following window will appear as shown in fig.51.

DAY	MODE	FIRE	FAULT	OUTPUT	PANEL
DD:MM: YY	VIEW: OUTPUT			Asso. No	NUMBER
HH:MM	ASSOCIATION	XXX/XXX	XXX/XXXX	XXXX	XX

O/P DELAY : XXX Sec

LOGIC : AND ☐ OR ☐

I/P ASSO. NO : 0000 & 0000 & 0000 & 0000

OUTPUT FOR : L ZONE ☐ TIMER ☐ GEN ☐ N/W ☐ L96 ☐ SUP_I ☐

LOOP NUMBER : XX

DEV NUMBER : XXX HEAT DETECTOR

DEVICE : INCOMPARIBLE DEVICE

^UP v DOWN ESC

Fig. 51

The Parameters shown in fig.51is mentioned below:

1. **AND / OR FUNCTION:**
   AND- the output is set at ON, when the result of all the inputs is TRUE.
   OR - the output is set at ON, when the result of any of the input is TRUE.

   Press left-right key to select the polarity of the device and enter key to select the logical function of the device.

2. **DELAY**: The delay can be within the interval (0-255) multiplied by 10 sec. User can enter the Data by using Keypad.
3. **TYPE**: From this the user can edit the associated Parameter of the system like: Loop, Group output, Action, Network, Loop 96, Supervisory.
   LOOP: If loop is selected then (refer to fig105)
   Loop number. Loop number of the device (1, 2, and 96).
   Device Number: Address of device from 1 to 250 which user wants to Activate at the time of event (control module & hooter).

4.3.3 TIMER ASSOCIATION

If user wants to view the Timer association setting of the panel, then user can press 3 from keypad (refer to fig.47) and the following window will appear as shown in fig.52. In this the user will have to enter the timer association number from (1 to 16) using keypad.

DAY DD:MM: YY HH:MM	MODE VIEW: TIMER SETTING	FIRE XXX/XXX	FAULT XXX/XXXX	TIMER SETTING NO: XX	PANEL NUMBER XX

TIMER ASSOCIATION

TIMER NUMBER: 01

PLEASE ENTER BETWEEN 1 TO 16

ESC

Fig. 52

If user enters correct data, then the following window will appear as shown in fig.53.

DAY DD:MM: YY HH:MM	MODE VIEW: TIMER SETTING	FIRE XXX/XXX	FAULT XXX/XXXX	TIMER SETTING NO: XX	PANEL NUMBER XX

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

^

STATUS : ENABLE ☐

SETTING : DATE ☐ DAY ☐

TIME : HH:MM

DATE : DD:MM: YY

DURATION : 000 Sec

^UP v DOWN ESC

Fig. 53

The Parameters shown in fig.53 is mentioned below:

1. **TIMER NUMBER:** This will show the timer number from 1 to 16 (marked with ^ arrow).
2. **STATUS**: User can change the status of timer (Enable/Disable). Use left – right key to highlight the parameter and press enter key to select the desired parameter.
   (✓☐ means Enable and without ✓☐ means disable)
3. **SETTING**: User can change the setting of timer (Enable/Disable). Use left – right key to Highlight the parameter and press enter key to select the desired parameter.
   (✓☐ means Enable and without ✓☐ means disable)
4. **TIME**: User can change the time setting for which user wants to set the input in the Association programming. Use 0-9 key to enter the time.

5. **DATE**: User can enter the date for which user wants to set the input in the association programming. Use 0-9 key to enter the time.
6. **DURATION**: The duration can be within the interval (0–255) multiplied by 10 sec. this is the duration of the activation of input in the input association after this Duration the input association is reset.

Previous / Next Timer: User can press < or > from the keypad to edit available Previous / Next Timer.

4.4 ZONE SETTING

To view zone settings, press 4 from keypad (refer to fig.29) the below mentioned screen will appear refer to Fig.29.

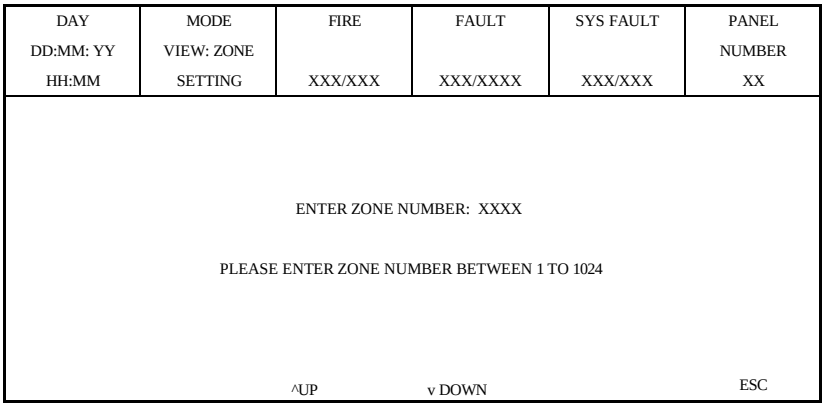


Fig. 54

In this the user can enter the zone number (from 1 to1024) by using keypad which the user wants to view.

If user enters correct data, then the following window will appear as shown in fig.55. The Parameters shown in fig.55. in mentioned below:

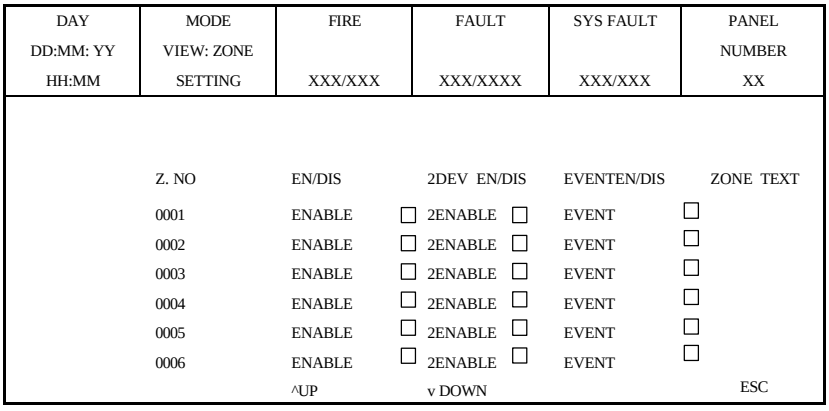


Fig. 55

ZONE STATUS: User can see the status of zone (Enable/Disable). Use left – right key to highlight the parameter and press enter key to select the desired parameter. (✓ means enabled without ✓ means disable).

ZONE STATE: This state is used to enable the cross-zoning feature in the system. Cross-zoning is the application of two detectors/sensors where one would usually suffice – in other words, the detection area of each smoke detector is degraded by 50 percent. In this application both detectors must discern a legitimate fire/smoke signature in order to set the system into alarm. In this if first detector discern the fire then the pre-alarm indication on the panel will light up and when the second detector discern the fire then the panel will give fire. Use left – right key to highlight the parameter and press enter key to select the desired parameter. (✓ means enabled without ✓ means disable)

After selecting all the parameters Press down key and press enter key to save the settings or press ESC/BACK to discard the settings, press < key to view previous zones, press > key to select next zones. The total number of 6 zones will be displayed on one page.

4.5 NETWORK SETTING

In this section a user can view network settings. A user can view network settings by pressing 5 in the keypad (refer to fig. 29).

DAY DD:MM: YY HH:MM	MODE VIEW: N/W PANEL PERMI.	FIRE XXX/XXX	FAULT XXX/XXXX	SYS FAULT XXX/XXX	PANEL NUMBER XX
1. INDIVIDUAL PANEL 2. ALL NETWORK PANEL ^UP v DOWN ESC					

Fig. 56

4.5.1 INDIVIDUAL PANEL

After selection user can view setting by panel number as shown in fig. 57 and 58.

DAY DD:MM: YY HH:MM	MODE VIEW: N/W PANEL PERMI.	FIRE XXX/XXX	FAULT XXX/XXXX	NETWORK POINT NO XX	PANEL NUMBER XX
PANEL NUMBER: XX PLEASE ENTER BETWEEN 1 TO 64 ^UP v DOWN ESC					

Fig. 57

AY DD:MM: YY HH:MM	MODE VIEW: N/W PANEL PERMI.	FIRE XXX/XXX	FAULT XXX/XXXX	NETWORK POINT NO 01	PANEL NUMBER XX

PANEL NUMBER : 01
RESET ☐
EVACUATE ☐
DELAY OVERRIDE ☐
SOUNDER CONTROL ☐
SILENCE BUZZER ☐
EVENT ☐

^UP v DOWN ESC

Fig. 58

4.5.2 ALL NETWORK PANEL

After selection user can view setting by panel number as shown in fig. 59.

DAY DD:MM: YY HH:MM	MODE VIEW: N/W PANEL PERMI.	FIRE XXX/XXX	FAULT XXX/XXXX	SYS FAULT XXX/XXX	PANEL NUMBER XX

SELECT COMMAND EXECUTES THROUGH ALL NETWORK PANELS

RESET ☐
EVACUATE ☐
DELAY OVERRIDE ☐
SOUNDER CONTROL ☐
SILENCE BUZZER ☐
EVENT ☐

ESC

Fig. 59

5 EDIT

To access EDIT press 3 from the keypad from the main menu screen (refer to fig.11). When user enter correct password then the below mentioned Screen will appear Refer to fig.60.

DAY DD:MM: YY HH:MM	MODE EDIT	FIRE XXX/XXX	FAULT XXX/XXXX	SYS FAULT XXX/XXX	PANEL NUMBER XX

1. PANEL SETTING
2. DEVICE CONFIGURATION
3. ASSOCIATION
4. ZONE SETTING
5. LOOP CARD REGISTER

ESC

Fig.60

5.1 PANEL SETTING: To modify panel setting press 1 from keypad the bellow mentioned screen will appear refer toFig.61.

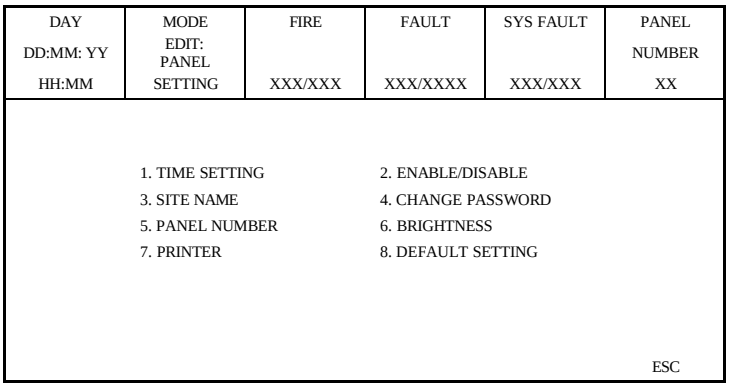


Fig. 61

5.1.1 TIME SETTING

To modify time and date setting press 1 from keypad the below mentioned screen will appear refer to Fig.62.

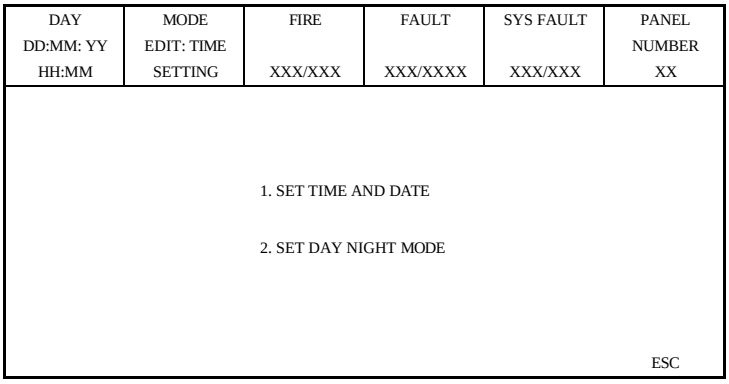


Fig. 62

5.1.1.1 SET TIME AND DATE

To modify time and date setting press 1 from keypad the below mentioned screen will appear refer to Fig.63.

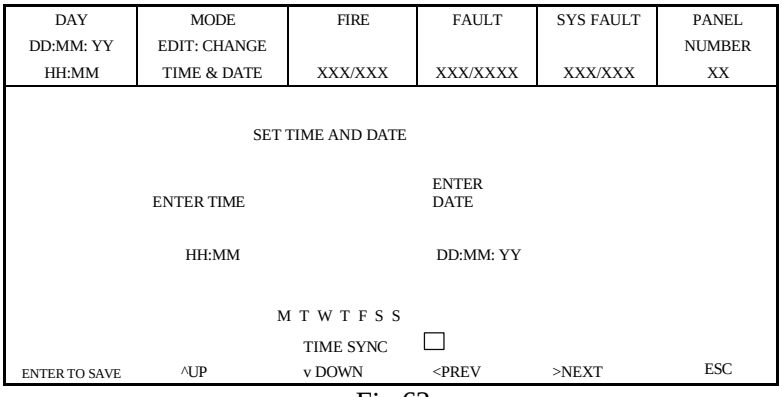


Fig 63

1. To modify time and date press 1 from keypad the below mentioned screen will appear refer to Fig.63.In this the user can modify time and date by using the following keys as mentioned below.

KEYS USED:

1. From 0-9 To enter time and date.
2. Press down key & press left- right key to select day, press Enter key to highlight the day.
3. Press down key & press Enter key to synchronize the time (if the panel is in network) . Press down key and press enter key to save the settings or press ESC/BACK to discard the settings.

5.1.1.2 SET DAY NIGHT MODE

To modify day/night mode press 2 from keypad the below mentioned screen will appear refer to Fig.62. In this mode the detectors use the alarm level which has been programmed as day mode. This is usually a level of lower sensitivity. It lowers the risk of false alarms caused by dust, cigarette smoke, etc. Night time mode is opposite to the daytime mode (higher level of sensitivity). In Schedule mode the initial hour and minutes (the time when the daytime mode is activated) and the end hour and minutes (the time when the night time mode is activated) are introduced. The times are set for every day of the week. By default, the station is in day time mode.

DAY	MODE	FIRE	FAULT	SYS FAULT	PANEL
DD:MM: YY HH:MM	EDIT: DAY & NIGHT MODE	XXX/XXX	XXX/XXXX	XXX/XXX	NUMBER XX

NIGHT MODE SETTING

DAY	EN	TIME_ON	TIME_OFF
MON	☐	XX: XX	XX: XX
WED	☐	XX: XX	XX: XX
FRY	☐	XX: XX	XX: XX
SUN	☐	XX: XX	XX: XX

NIGHT SCHEDULE

DAY	EN	TIME_ON	TIME_OFF
TUE	☐	XX: XX	XX: XX
THU	☐	XX: XX	XX: XX
SAT	☐	XX: XX	XX: XX

ENTER TO SAVE ^UP v DOWN <PREV >NEXT ESC

Fig. 64

KEYS USED:

1. Press enter key to enable the night time mode refer to Fig.64.
2. Press left- right key &up-down key to select the time on and use key 0-9 to enter the on time and off time.
3. Press down key and press enter key to save the settings or press ESC/BACK to discard the settings.

5.1.2 ENABLE/DISABLE

To enable/ disable permissions press 2 from keypad (Refer to fig.61) the below mentioned screen will appear refer to Fig.65. In this the user can enable or disable the password permission, printer permission etc.

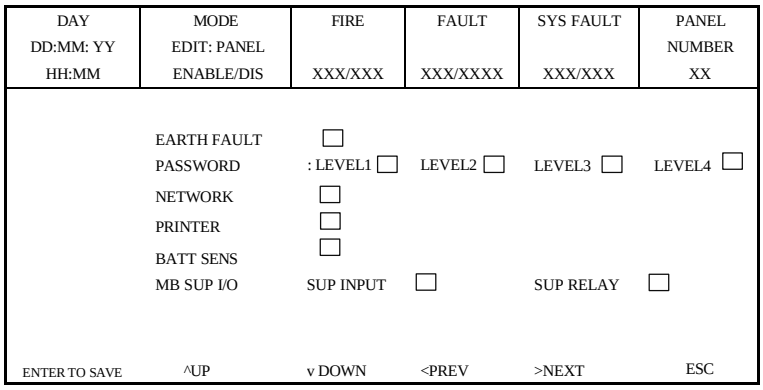


Fig. 65

5.1.3 SITE NAME

To modify site name, press 3 from keypad (Reform to fig.61) the below mentioned screen will appear refer to Fig.66.

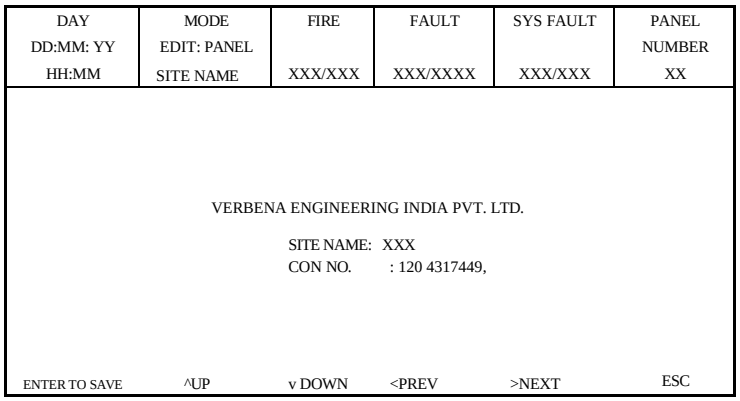


Fig. 66

KEYS USED:

1. Use keys 0-9 to enter the name of the site (for more information refers to fig.139)
2. Press down key and press enter key to save the settings or press ESC/BACK to discard the settings.

5.1.4 CHANGE PASSWORD

To modify password, press 4 from keypad (Refer to fig.61) the below mentioned screen will appear refer to Fig.67.

DAY	MODE	FIRE	FAULT	SYS FAULT	PANEL
DD:MM: YY	EDIT: CHANGE				NUMBER
HH:MM	PASSWORD	XXX/XXX	XXX/XXXX	XXX/XXX	XX

CHANGE PASSWORD

1. ACCESS LEVEL 1
2. ACCESS LEVEL 2
3. ACCESS LEVEL 3
4. ACCESS LEVEL 4

ESC

Fig. 67

KEYS USED:

1. Use keys 0-9 to select the desire access level for which the user wants to change the password.
2. Press ESC/BACK to discard the settings.

DAY	MODE	FIRE	FAULT	SYS FAULT	PANEL
DD:MM: YY	EDIT: CHANGE				NUMBER
HH:MM	PASSWORD	XXX/XXX	XXX/XXXX	XXX/XXX	XX

ENTER OLD PASSWORD ACCESS LEVEL 1

X _ _ _

ESC

Fig. 68

KEYS USED:

1. Use keys 0-9 to enter the old password.
2. Press ESC/BACK to discard the settings.

If user enters correct data then the below mentioned screen will appear (Refer to fig.69). In this the user can enter the password which he want to modify.

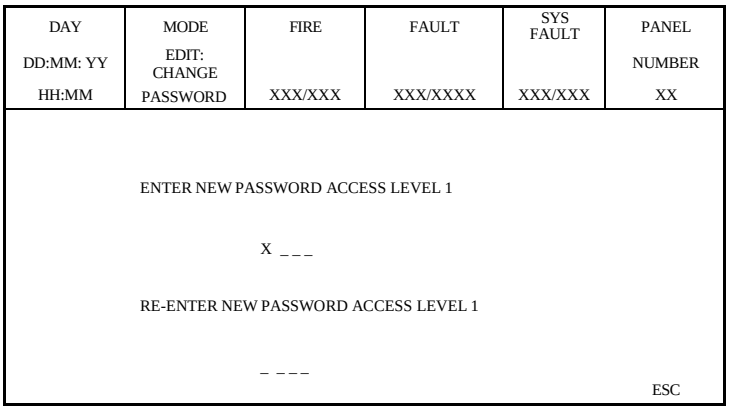


Fig.69

5.1.5 PANEL NUMBER

To modify panel number press 5 from keypad (Refer to fig.61) the below mentioned screen will appear refer to Fig.70 Maximum number of panels allowed is from 1to 64.

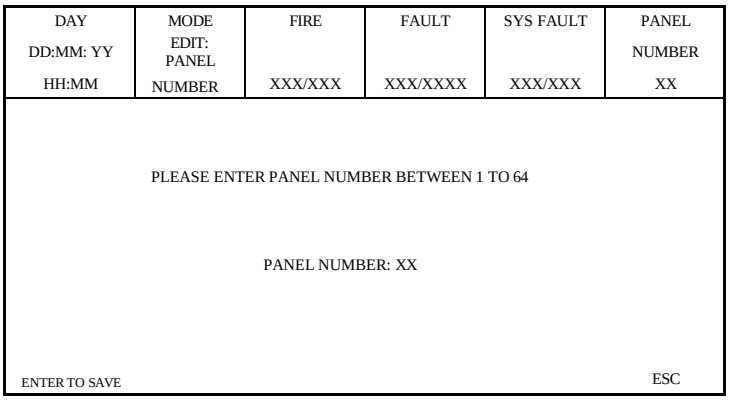


Fig. 70

KEYS USED:

1. Use keys 0-9 to enter the name of the site (for more information refers to fig.139)
2. Press down key and press enter key to save the settings or press ESC/BACK to discard the settings.

5.1.6 BRIGHTNESS

If user wants to change the brightness configuration of the panel, then user can press 6 from keypad (refer to fig.61). Following window will appear as shown in fig.71. In this the user can press up button to increase the brightness & down button to decrease the brightness.

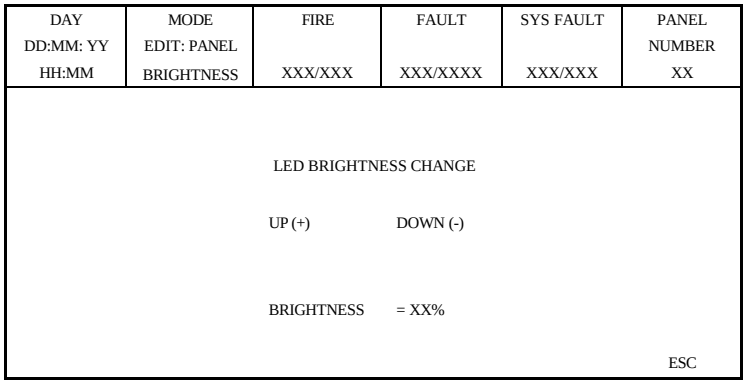


Fig. 71

5.1.7 PRINTER

To modify printer setting press 7 from keypad (Refer to fig.61) the below mentioned screen will appear refer to Fig.72.

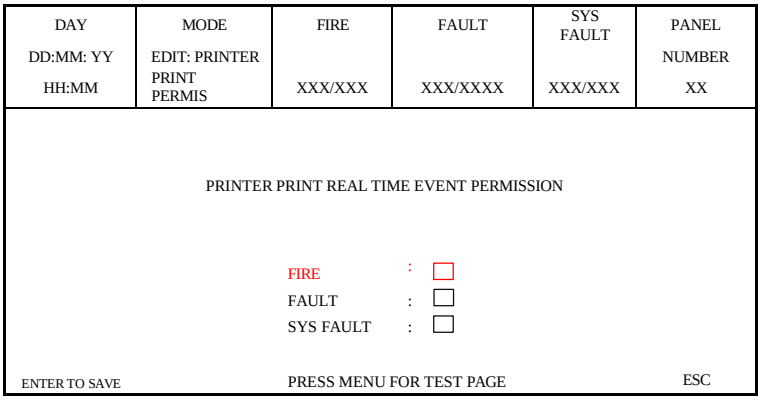


Fig. 72

KEYS USED:

1. Use left right key to highlight enable and disable and press enter key to select the desired function.
2. Use down key and left right key to highlight the type of event which user want to print and press enter key to select the desired function.
3. Press down key and press enter key to save the settings or press ESC/BACK to discard the settings.

5.1.8 DEFAULT SETTING

If user wants to the panel in default state, then press 8 from keypad (refer to fig.61). Following window will appear as shown in fig.73.

If user wants to the panel in default state, then press 8 from keypad (refer to fig.61). Following window will appear as shown in fig.73.

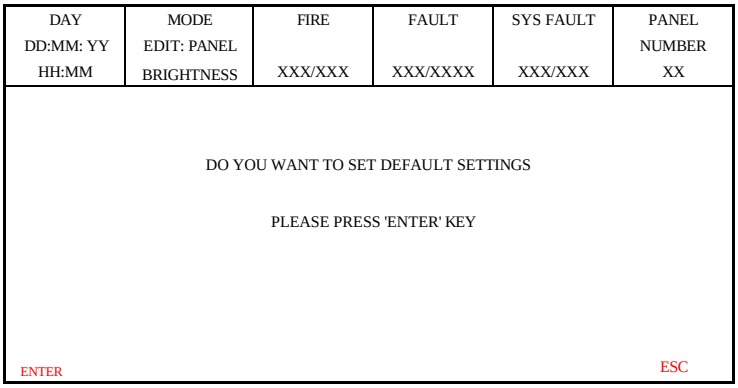


Fig. 73

5.2 DEVICE CONFIGURATION

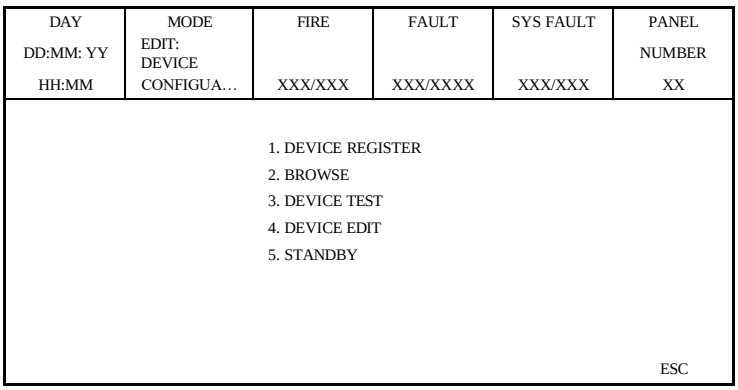


Fig. 74

5.2.1 DEVICE REGISTER

To register Devices, press 1 from keypad (refer to fig.74) the below mentioned screen will appear refer to Fig.75.

Select the desired loop to register the device in the panel by using keypad (press key 1-2).

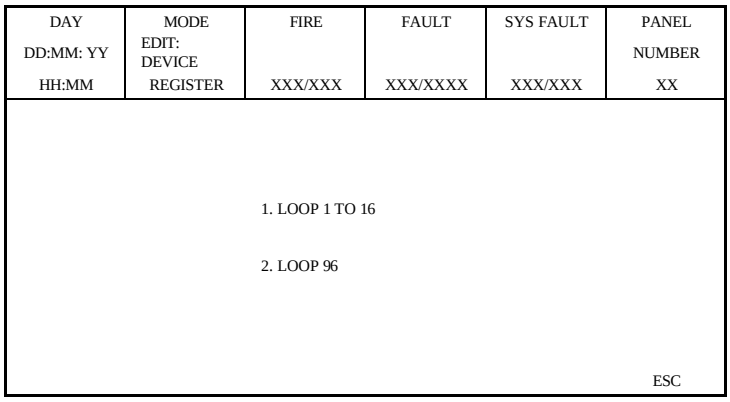


Fig. 75

After selecting the desired loop, the below mentioned screen will appear refer to fig. 76. This will auto register the devices present in the loop.

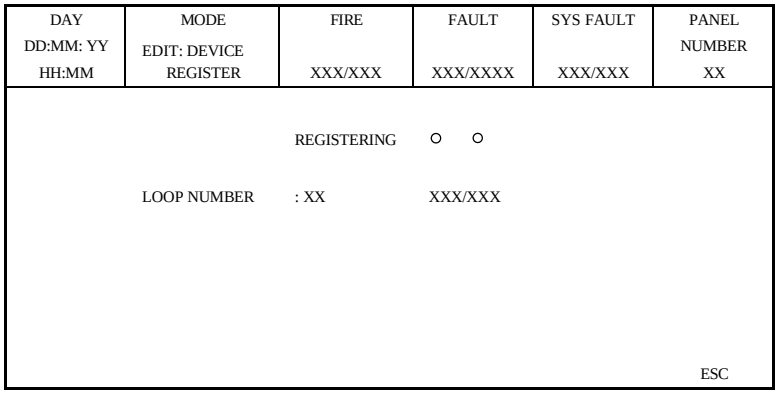


Fig. 76

6.2.1.2 LOOP 96

After selecting the desired loop, the below mentioned screen will appear refer to fig. 76. This will auto register the devices present in the loop.
When registration of the device is completed the below mentioned screen will appear refer to fig.78.

DAY DD:MM: YY HH:MM	MODE EDIT: DEVICE REGISTER	FIRE XXX/XXX	FAULT XXX/XXXX	SYS FAULT XXX/XXX	PANEL NUMBER XX

REGISTERING

L96 INPUT DEVICE : XX/XX
L96 OUTPUT DEVICE : XX/XX

ESC

Fig. 77

DAY DD:MM: YY HH:MM	MODE EDIT: DEVICE REGISTER	FIRE XXX/XXX	FAULT XXX/XXXX	SYS FAULT XXX/XXX	PANEL NUMBER XX

REGISTERING COMPLETE

L96 INPUT DEVICE : XX/XX
L96 OUTPUT DEVICE : XX/XX

CONFIGURED

ESC

Fig. 78

5.2.2 BROWSE

To view/browse Devices in loop press 2 from keypad (refer to fig.74) the below mentioned screen will appear refer to Fig.79.

DAY	MODE	FIRE	FAULT	SYS FAULT	PANEL
DD:MM:YY	EDIT: DEVICE				NUMBER
HH:MM	BROWSE	XXX/XXX	XXX/XXXX	XXX/XXX	XX

1. LOOP 1 TO 16
2. LOOP 96 INPUT
3. LOOP 96 OUTPUT

ESC

Fig. 79

Select the desired loop to view/browse the registered device in the panel by using keypad (press key 1-3).
After selecting the desired loop, the below mentioned screen will appear refer to fig. 80. In this the user will see the registered parameters like device address, device type, device text etc. Press up – down key to increment or decrement the sequence of registered devices.

DAY	MODE	FIRE	FAULT	SYS FAULT	PANEL
DD:MM: YY	EDIT: DEVICE				NUMBER
HH:MM	BROWSE	XXX/XXX	XXX/XXXX	XXX/XXX	XX

LOOP NO : XX

PLEASE ENTER LOOP NUMBER BETWEEN 1 TO 16

ESC

Fig. 80

DAY	MODE	FIRE	FAULT	SYS FLT	PANEL
DD:MM: YY	EDIT: DEV				NUMBER
HH:MM	BROWSE	XX/. XXXX	XX/. XXXX	XX/. XXXX	XX

P NO: XX LOOP NO: 01 TOTAL REGISTER DEVICE: 250

D: 001 I N P U T MODULE d e v i c e text___(26 char)
D: 002 C O N T R O L MODULE device text_____(26 char)
D: 003 M C P device text_____(26 char)
D: 004 M U L T I DETECTOR d e v i c e text_____(26 char)
D: 005 H E A T DETECTOR d e v i c e text_____(26 char)
D: 006 S M O K E DETECTOR device text_____(26 char)

^Up V Dwon ESC/. BACK

Fig. 81

5.2.3 DEVICE TEST

Refer to fig.74 press 3 to test the devices registered in the loop. This parameter is used to test the digital values of the devices registered in loop. After pressing 3 the below mentioned screen will appear as shown in fig.82.

Select the desired loop to test the registered device in the panel by using keypad (press key 1-3). After selecting the desired loop, the below mentioned screen will appear refer to fig. 82. In this the user will see the registered digital heat (HV) & smoke value (SV) and the current heat (HV) & smoke (SV) digital value of the devices registered in loop. If the device number is not registered in the loop, then the registered digital heat (HV) & smoke value (SV) and the current digital heat (HV) & smoke value (SV) will be Zero. Press up – down key to increment or decrement the sequence of registered devices.

DAY DD:MM: YY HH:MM	MODE EDIT: DEV TEST	FIRE XX/. XXXX	FAULT XX/. XXXX	SYS FLT XX/. XXXX	PANEL NUMBER XX
L: 01 D: 001	INPUT MODULE		HV:000 SV:022 000 022		
L: 01 D: 002	CONTROLMODULE		HV:000 SV:027 000 022	NEW DEVICE	
L: 01 D: 003	SMOKEDETECTOR		HV:000 SV:027 000 027		
L: 01 D: 004	HEATDETECTOR		HV:025 SV:000 025 000	DEV. MISSING	
^ Up		v Down		ESC/BACK	

Fig.82

5.2.4 DEVICE EDIT

To edit Device settings in loop, press 4 from keypad (refer to fig.74) the below mentioned screen will appear refer to Fig.83.

DAY DD:MM: YY HH:MM	MODE EDIT: DEVICE BROWSE	FIRE XXX/XXX	LOOP NUMBER XX	SYS FAULT XXX/XXX	PANEL NUMBER XX
1. EDIT REGISTERED DEVICE ONLY 2. EDIT ALL DEVICE ESC					

Fig. 83

Select the desired parameter to edit the device settings (refer to fig.83) in the panel by using keypad (press key 1-2).

5.2.4.1 EDIT REGISTERED DEVICE ONLY

1. Press 1 to edit the settings of the devices which is registered in the panel.
2. Press 2 to edit the settings of the devices which is registered/not registered in the panel.

After selecting the EDIT REGISTERED DEVICE ONLY option, the below mentioned screen will appear refer to fig.84.

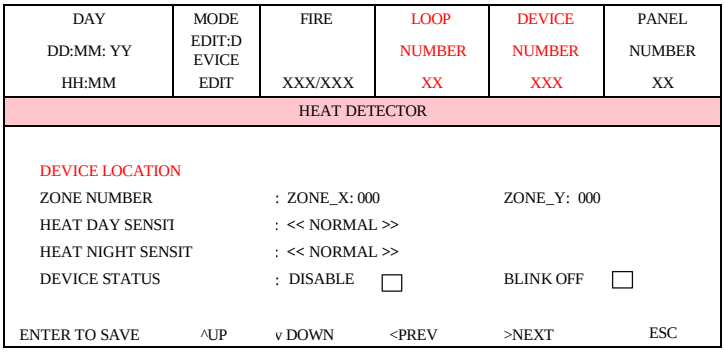


Fig. 84

The description of parameters in fig.84 were as follows: -

DEVICE TYPE: This parameter shows the type of device linked with that address (noneditable). In our case it is Heat Detector.

DEVICE LOCATION: In this the user can enter the location of the device linked with that address. Use key 0-9 to enter the text of device (for more information refers to fig.139)

ZONE NUMBER: This parameter is used to assign the zone number to the device linked with that address. Use keys 0-9 to enter the zone number.

DAY MODE: This parameter is used to adjust the daytime sensitivity of device to fire(smoke/heat/multidetector) linked with that address. Use left- right key to highlight parameterize. Low, normal, medium, high & press enter key to select the desired parameter. (✓□means enable and without ✓□means disable)

NIGHT MODE: This parameter is used to adjust the night time sensitivity of device to fire (smoke/heat/multi detector) linked with that address. Use left- right key to highlight parameter .i.e. Low, normal, medium, high & press enter key to select the desired parameter. (✓ means enable and without
✓□means disable)

DEVICE STATUS: This parameter used to enable/disable the device in the loop.(✓□means enable and without ✓□means disable) Press down key to highlighting the Parameter and press enter key to select the desired parameter.

After selecting all the parameters Press down key and press enter key to save the settings or press ESC/BACK to discard the settings, press < key to view previous devices, press > key to select next device.

5.2.5 STANDBY

In this mode system will be in standby mode as shown in fig. 85.

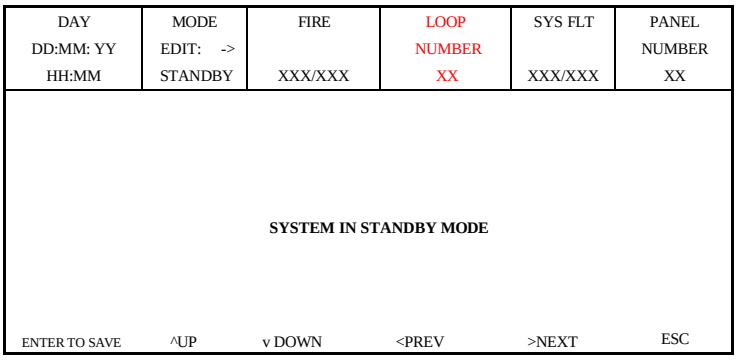


Fig. 85

5.3 ASSOCIATION

To modify association settings, press 3 from keypad (refer to fig.60) the below mentioned screen will appear refer to fig.86.

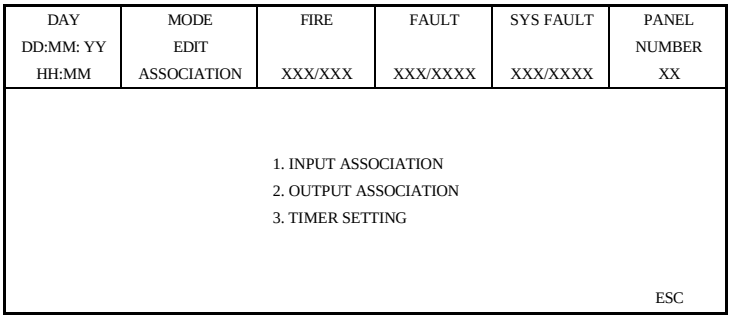


Fig. 86

5.3.1 INPUT ASSOCIATION

If user wants to modify the Input Association settings of the panel, then user can press 1 from keypad (refer to fig.86) and the following window will appear as shown in fig.87. In this the user will have to enter the association no from 1 to 1024 using keypad.

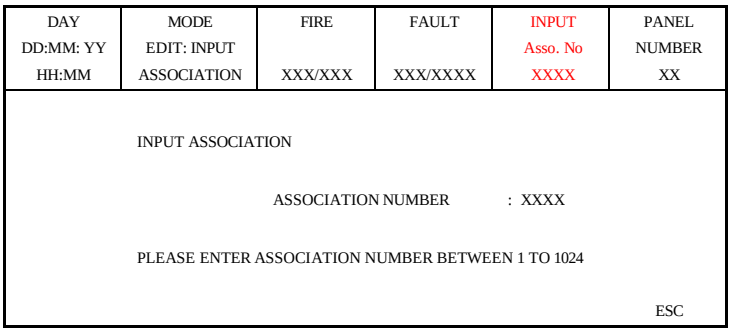


Fig. 87

If user enters correct data, then the following window will appear as shown in fig.88.

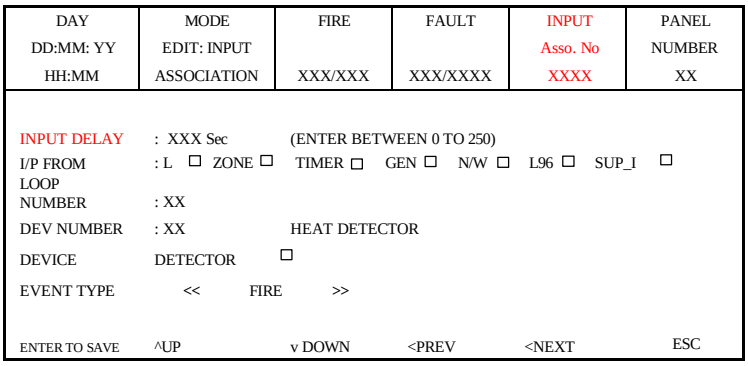


Fig. 88

The Parameters shown in fig.49 is mentioned below:

1. **INPUT DELAY**: The delay can be within the interval (0-255) multiplied by10 sec. User Can enter the data by using Keypad.
2. **TYPE**: This shows the associated Parameter of the system like: Loop, Zone, Timer, General, Network, Loop 96, Supervisory.

LOOP: If loop is selected then (refer to fig.96)
Loop number: Loop number of the device (1, 2, and 96).
Device Number: Address of device from 1 to 250.
Function: As per the device the following Parameter like :Fire, Fault, Input. will be selected.
ZONE: If zone is selected then (refer to fig.97)
ZONE NUMBER: Enter zone number to which the user wants to assign the Device from 1-128.
FUNCTION: Select the function of zone for which the user wants an event.

TIMER: *TIMER NUMBER:* Enter timer number from 1-16 to which the user wants to

Create an event.

**This field is used generate an alarm on the specific day or date of the week with specific time. Please refer to timer association for more information.*

GENERAL: General status which will activate the input of the device. The possible statuses can be

COMMON FIRE, COMMON PREALARM, COMMON FAULT, SYSTEM FAULT, DISABLED, RESET, SILENCE, TEST

NETWORK: If Network is selected then enter panel number and output number,

To which the input shall be attached
PANEL NUMBER: Enter a number from 1 to 64.
OUTPUT ASSOCIATION NUMBER: Enter a number from 1 to 250.

LOOP 96: If Loop 96 is selected then.

LOOP 96 INPUT NUMBER : Enter a number from 1 to 96.
FUNCTION: As per the device the following Parameter like: Fire, Fault, Input will be selected.

After seeing all the parameters Press ESC/BACK

5.3.2 OUTPUT ASSOCIATION

If user wants to modify the Output Association setting of the panel, then user can press 2 from keypad (refer to fig.86) and the following window will appear as shown in fig.50. In this the user will have to enter the association no from 1 to 250 using keypad.

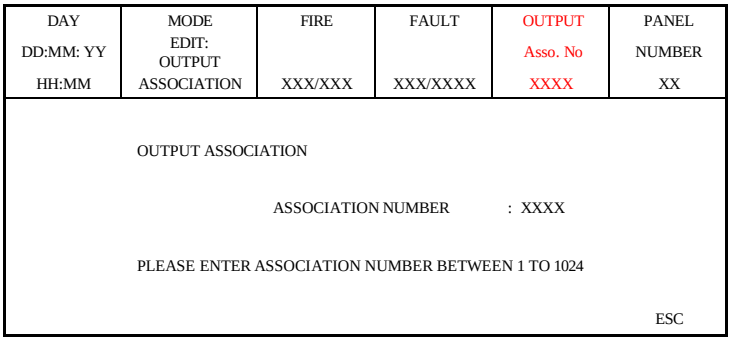


Fig. 89

If user enters correct data then the following window will appear as shown in fig.90.

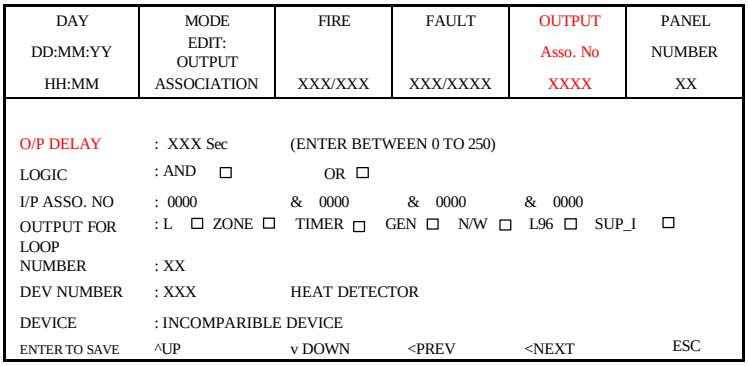


Fig. 90

The Parameters shown in fig.90 is mentioned below:

1. **AND / OR FUNCTION:**

   AND- the output is set at ON, when the result of all the inputs is TRUE.
   OR - the output is set at ON, when the result of any of the input is TRUE.

   Press left-right key to select the polarity of the device and enter key to select the logical function of the device.

2. **DELAY**: The delay can be within the interval (0-255) multiplied by 10 sec. User can enter the Data by using Keypad.
3. **TYPE**: From this the user can edit the associated Parameter of the system like: Loop, Group output, Action, Network, Loop 96, Supervisory.

   LOOP: If loop is selected then (refer to fig105)

   Loop number. Loop number of the device (1, 2, and 96).

   Device Number: Address of device from 1 to 250 which user wants to Activate at the time of event (control module & hooter).

5.3.3 TIMER ASSOCIATION

If user wants to modify the Timer association setting of the panel then user can press 3 from keypad(refer to fig.86) and the following window will appear as shown in fig.52. In this the user will have to enter the timer association number from (1 to 16) using keypad.

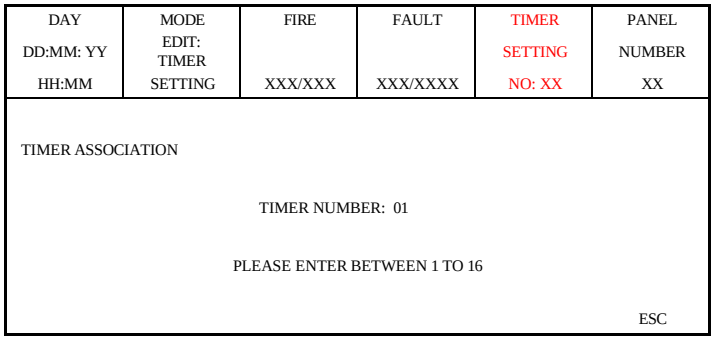


Fig. 91

If user enters correct data, then the following window will appear as shown in fig.92.

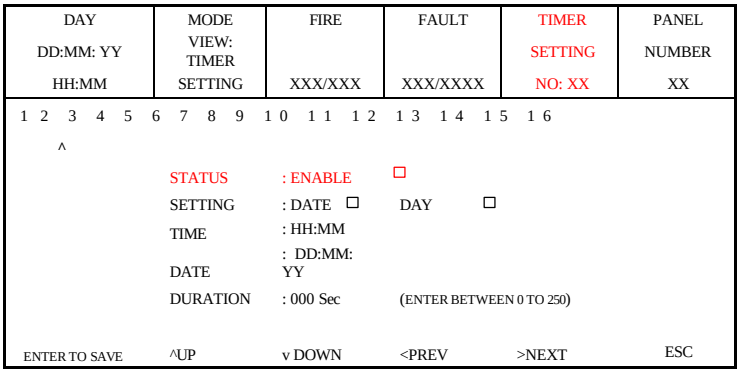


Fig. 92

The Parameters shown in fig.92 is mentioned below:

1. **TIMER NUMBER:** This will show the timer number from 1 to 16 (marked with ^ arrow).
2. **STATUS**: User can change the status of timer (Enable/Disable). Use left – right key to highlight the parameter and press enter key to select the desired parameter.
   (✓ means Enable and without ✓ means disable)
3. **SETTING**: User can change the setting of timer (Enable/Disable). Use left – right key to Highlight the parameter and press enter key to select the desired parameter.
   (✓ means Enable and without ✓ means disable)

4. **TIME**: User can change the time setting for which user wants to set the input in the Association programming. Use 0-9 key to enter the time.
5. **DATE**: User can enter the date for which user wants to set the input in the association programming. Use 0-9 key to enter the time.
6. **DURATION**: The duration can be within the interval (0–255) multiplied by 10 sec. this is The duration of the activation of input in the input association after this Duration the input association is reset.

Previous / Next Timer: User can press < or > from the keypad to edit available Previous / Next Timer.

5.4 ZONE SETTING

To view zone settings, press 4 from keypad (refer to fig.60) the below mentioned screen will appear refer to Fig.93.

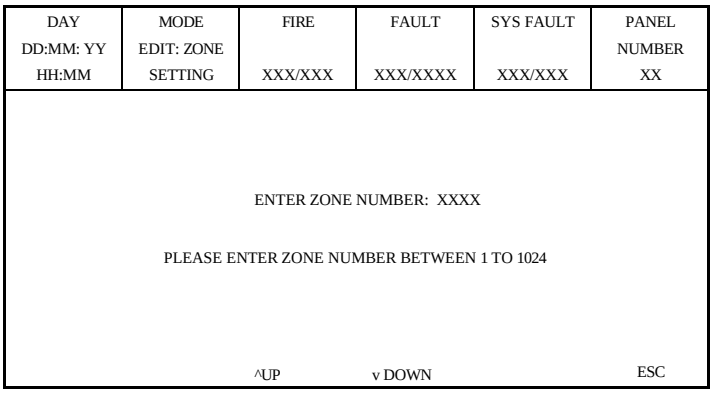


Fig. 93

In this the user can enter the zone number (from 1 to1024) by using keypad which the user wants to modify.

If user enters correct data, then the following window will appear as shown in fig.94. The Parameters shown in fig.94. in mentioned below:

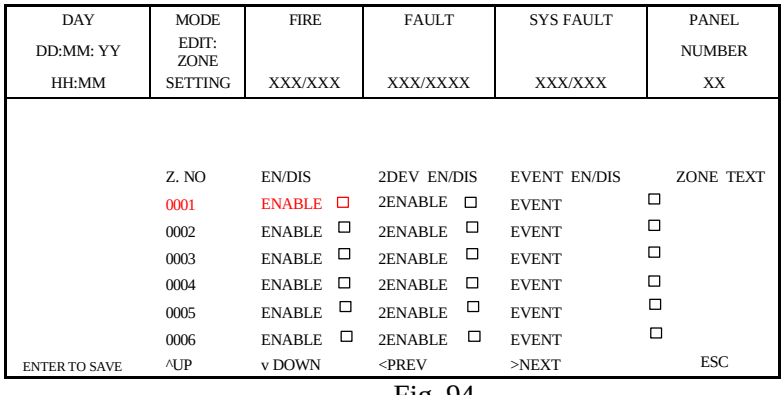


Fig. 94

ZONE STATUS: User can see the status of zone (Enable/Disable). Use left – right key to highlight the parameter and press enter key to select the desired parameter. (✓ means enabled without ✓ means disable).

ZONE STATE: This state is used to enable the cross-zoning feature in the system. Cross-zoning is the application of two detectors/sensors where one would usually suffice – in other words, the detection area of each smoke detector is degraded by 50 percent. In this application both detectors must discern a legitimate fire/smoke signature in order to set the system into alarm. In this if first detector discerns the fire then the pre-alarm indication on the panel will light up and when the second detector discern the fire then the panel will give fire. Use left – right key to highlight the parameter and press enter key to select the desired parameter. (✓ means enabled without ✓ means disable)

After selecting all the parameters Press down key and press enter key to save the settings or press ESC/BACK to discard the settings, press < key to view previous zones, press > key to select next zones. The total number of 6 zones will be displayed on one page.

5.5 LOOP REGISTER

This is the most unique feature which gives us the flexibility to add and reduce the loops according to our need. One loop card comes with two loops. And up to eight loop cards can be connected (max 16 loops). To register a loop card, press 5(refer to fig60). It will automatically register all the loop card connected to panel (refer to fig. 95).

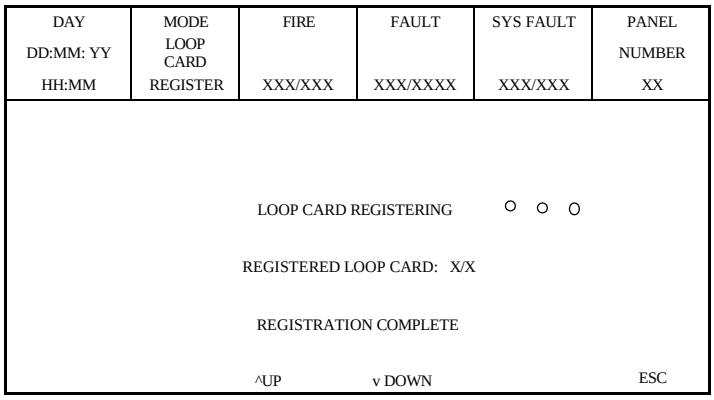


Fig. 95

7. NETWORK

This parameter used to configure the network permission of device in the panel.

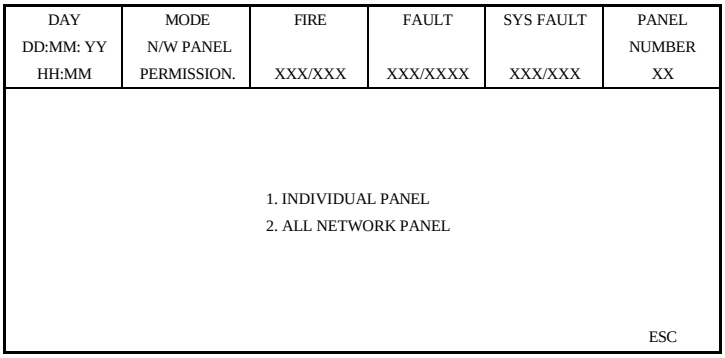


Fig. 96

(✓ means enable and without ✓ means disable). Press down key to highlighting the Parameter and press enter key to select the desired parameter.

User can change the settings either by panel number or for full network.as Shown in figure 97 and 98

DAY DD:MM: YY HH:MM	MODE N/W PANEL PERMISSION.	FIRE XXX/XXX	FAULT XXX/XXXX	NETWORK POINT NO 01	PANEL NUMBER XX
	PANEL NUMBER : 01				
	RESET ☐				
	EVACUATE ☐				
	DELAY OVERRIDE ☐				
	SOUNDER CONTROL ☐				
	SILENCE BUZZER ☐				
	EVENT ☐				
ENTER TO SAVE	^UP	v DOWN	<PREV	>NEXT	ESC

Fig. 97

DAY DD:MM: YY HH:MM	MODE N/W PANEL PERMISSION.	FIRE XXX/XXX	FAULT XXX/XXXX	SYS FAULT XXX/XXX	PANEL NUMBER XX
	SELECT COMMAND EXECUTES THROUGH ALL NETWORK PANELS				
	RESET ☐				
	EVACUATE ☐				
	DELAY OVERRIDE ☐				
	SOUNDER CONTROL ☐				
	SILENCE BUZZER ☐				
	EVENT ☐				
ENTER TO SAVE	^UP	v DOWN			ESC

Fig. 98

CONTROL SIGNALS:

RESET: When user press "RESET" button or when there are some changes made while doing settings in the menu then the below mentioned screen will appear as shown in fig.130**.**

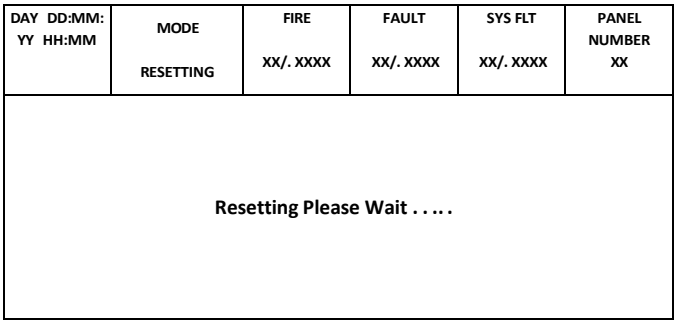


Fig.130

SILENCE BUZZER: When user press "**SILENCE BUZZER**" button as to silence the internal buzzer of the system then the below mentioned screen will appear as shown in fig.131**.**

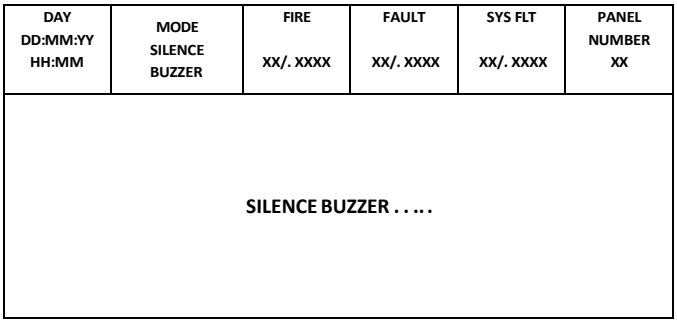


Fig.131

SILENCE ALARM: When user press "**SILENCE ALARM**" button as to silence the internal buzzer of the system then the below mentioned screen will appear as shown in fig.132**.**

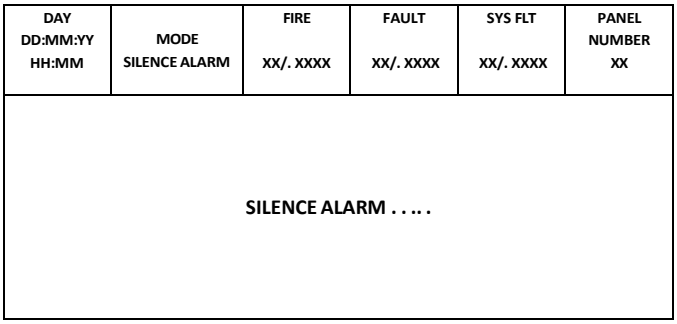


Fig.132

RESOUND ALARM: When user press "**RESOUND ALARM**" button then the output devices which are silenced at the time of Fire event will be activated again & the panel will display the message as shown in fig.133**.**

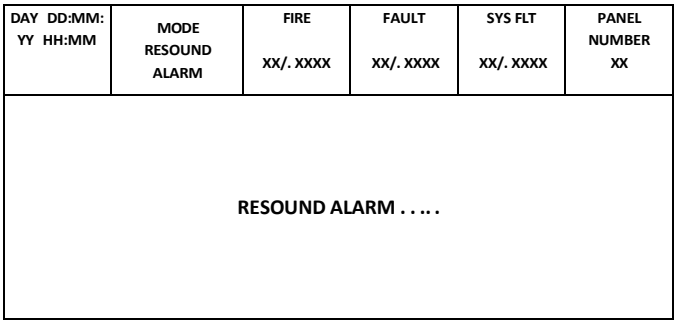


Fig.133

EVACUATE: When user press "**EVACUATE**" button then all the output devices will be activated & the panel will display the message as shown in fig.134**.**

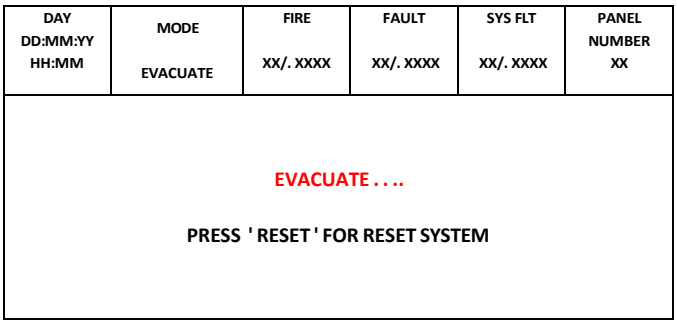


Fig.134

DELAY OVERRIDE: When user press "**DELAY OVERRIDE**" button then all the delays running in the panel will be cancelled and the panel immediately set the input / output settings & the panel will display the message as shown in fig.135**.**

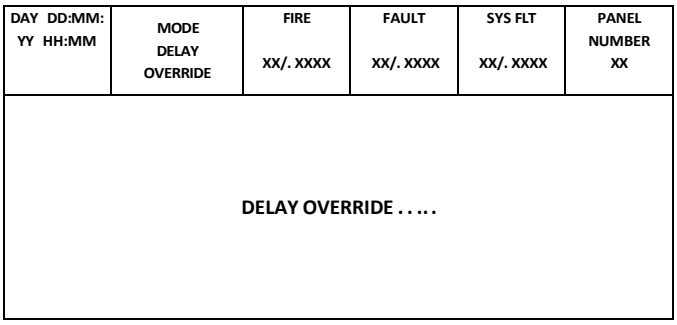


Fig.135

BATTERY LOW: When running on battery if the backup voltage of battery drains below 20V. Then the system shows the message "**BATTERY LOW"** as shown in fig.137.

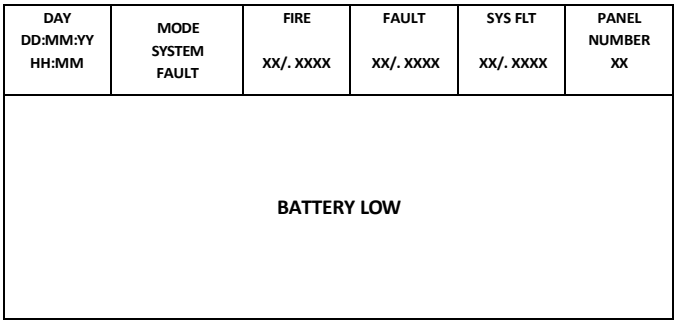


Fig.137

VOLTAGE LOW: When running on mains if the voltage of system drains below 20V. Then the system shows the message "**VOLTAGE LOW"** as shown in fig.138.

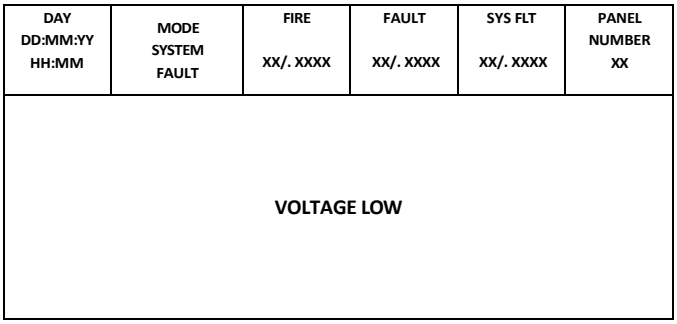


Fig.138

USING KEYPAD HOW TO ENTER TEXT:

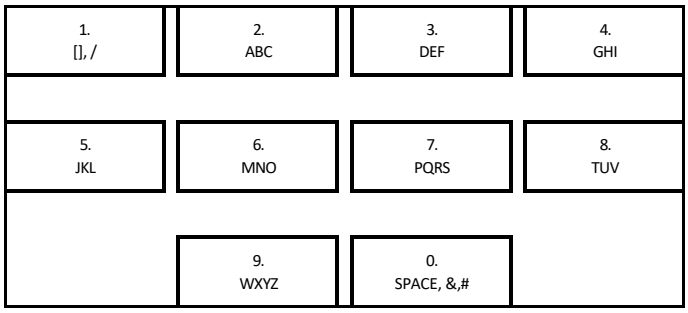


Fig.139

WARNING AND CAUTIONS

There are some warnings and cautions in installation & operating the system as below:

- All the connection should be connected properly.
- Detector should be installed & connected in right manner.
- There should not be much variation in A.C. Supply.
- Battery should be connecting with the right polarity.
- Before connection hooter & detector wire you should check shorting if there is any shorting in hooter or detector line it may be harmful to the system.
- Body earth (A.C. supply) should not be with SMPS earth for any region.
- All the wire installation must accord with National and local effective laws and criteria.
- All wires must have the suitable size and the wires connecting detectors and other devices must have colorful marks for avoiding connecting error. And unsuitable connection will lead to alarm error when Fire happens.
- The panel & detector should be within the temperature range.
- The need to check the panel on daily basis
- Don't fix the panel / detector in high range of vibrating area.
- Don't put the panel cables near to high voltage area.
- Don't fix the panel in highly moisture surrounded area.
- Don't connect the power cable wrongly, this will break the warranty.
- These instructions contain procedures to follow in order to avoid injury and damage to equipment's it is assumed that the user of this manual has been suitable trained and is familiar with the relevant regulations.
- Electrostatic sensitive devices. Take suitable precautions when removing or installing Printed Circuit Boards (PCBs)
- The panel has been tested and found to comply with all the requirements. A lithium battery is used for date / clock retention risk of explosion if the battery is replaced by any incorrect type. Dispose of used batteries responsibility and in accordance with any local regulations.

Special

Verbena Engineering India Pvt. Ltd follows continuous development strategy. So, we reserve the rights to modify our products and technical specifications and these modifications do not need to inform our customers in advance.