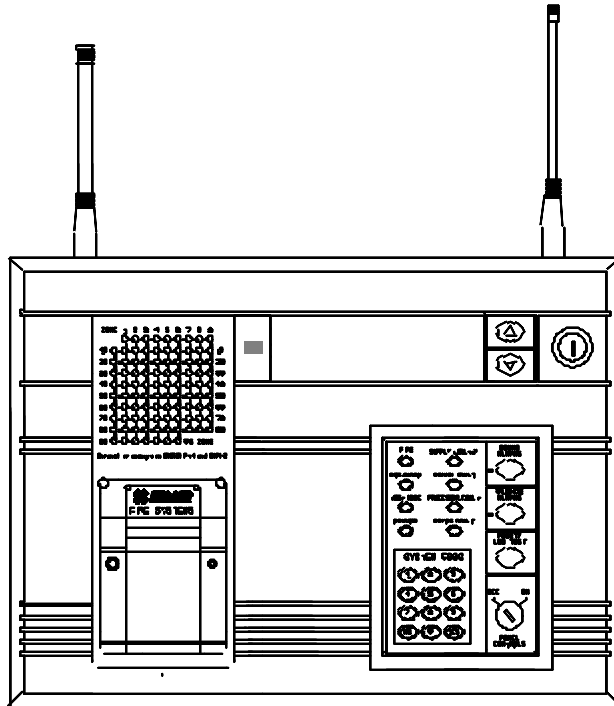


E.M.S.

FIRE SYSTEM 5000 CONTROL PANEL USER MANUAL



MODEL SHOWN. 5096



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1.0 Introduction.

This manual contains all the information needed to operate the EMS System 5000. The instructions given in this manual must be followed when using the system. Should you have any questions regarding the operation of this system, refer these to your installer.

2.0 System Design.

It is assumed that the Control Panel and Devices have been installed in the correct location, in accordance with the radio survey and system design.

3.0 Equipment Required.

No specialist equipment is required when using System 5000.

4.0 Fire Alarm Procedures.

In accordance with BS5839 Part 1:1988, written procedures must be established for dealing alarms for Fire, Fault Warnings and the isolation of any part of the system.

A responsible person should be appointed who ensures that all users are instructed in the proper use of the system and are familiar with all associated procedures. The nominated person shall also be responsible for dealing with the maintenance company, on all matters relating to the maintenance of the system.

<u>Installation Record</u>
Installer.....
Service Telephone No.....
Date.....

5.0 Controls and Indications

The System 5000 Control Panel provides status information via the Display, Zone Lamps and Status Lamps. Display and control of the Panel's functions is achieved through two Control Panel sections. **Figure 1**, shows the Display Area which includes Zone Lamps, The Display itself and the UP / DOWN Scroll Buttons.

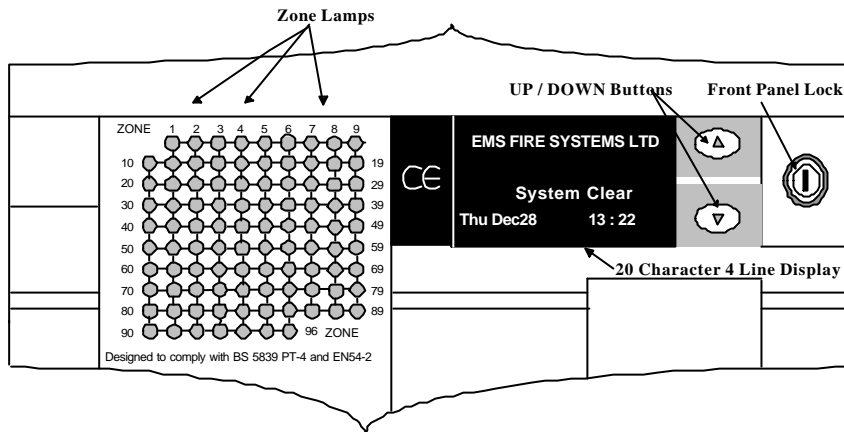


Figure 1 Zone Lamps and Display (model shown 5096)

The System 5000 Panel is controlled by the use of a Key, a numeric Keypad and 3 Control Buttons. **Figure 2** shows the two different styles of Panel controls and indicator lamps.

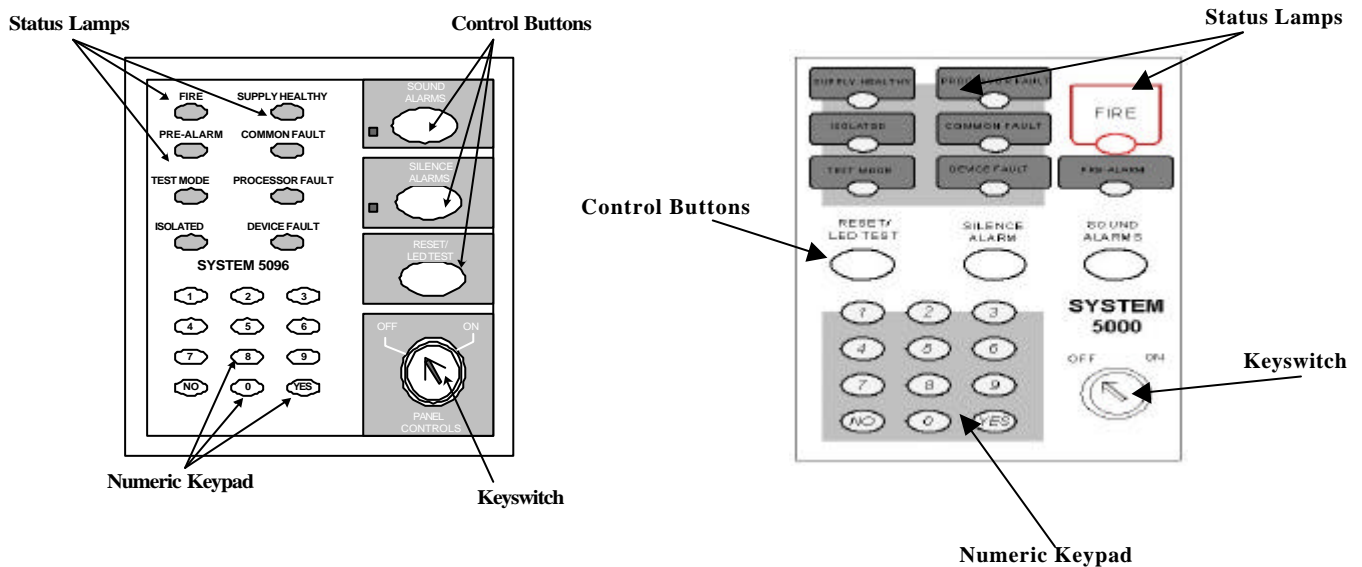


Figure 2

***NOTE:** The status lamps & control button operation are identical for all styles of control panel.

STATUS LAMPS.

There follows a description of the function of each Status Lamp.

FIRE:-This lamp illuminates when a Fire Alarm occurs.

PRE -ALARM:- System 5000 Smoke and Heat Detectors have “built in” intelligence and will, for example, register a sharp rise in temperature. In such cases a “PRE-ALARM” warning will be given.

TEST MODE:- This Lamp will illuminate when a Detector or Callpoint is put into “TEST MODE”. In Test Mode a device will not activate the sounders.

ISOLATED:- This lamp illuminates when a Detector or Callpoint is isolated. An isolated device will not activate the Sounders.

SUPPLY HEALTHY:- This lamp illuminates to indicate that the power supply is good.

COMMON FAULT:- This lamp would illuminate should a Control Panel fault condition occur.

PROCESSOR FAULT:- This lamp would illuminate should a Control Panel processor fault condition occur.

DEVICE FAULT:- The Control Panel monitors all devices. This lamp would illuminate should one of the devices, monitored by the system, develop a fault condition.

KEYSWITCH.

The Keyswitch in the ON position allows limited control of the Panel, without the need for a PIN.

CONTROL BUTTONS.

There follows a description of the function of each control button. Note that the Keyswitch must be in the ON position for the buttons to function,

SOUND ALARM:- This button is used for activating the System’s Sounders.

SILENCE ALARMS:- This button is used to silence the System’s Sounders.

RESET / LED TEST:- This button is used to reset an alarm or alarms, after the Silence Alarms button has been pressed.

6.0 Panel Conditions

Under “Non Alarm” conditions the panel will indicate that the system is clear. The display will show the date and time, as well as how to gain access to the system. At this time the display will alternate between the two following displays.

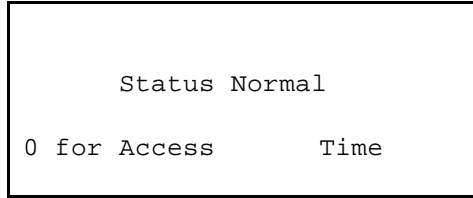


Figure 3

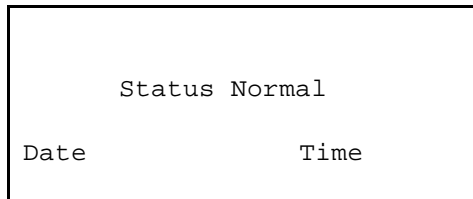


Figure 4

Note: If the system has been programmed with the end user, or installation company’s name, the screen text may differ slightly from that shown. The installing engineer can set up an alternative text for the display, should this be required.

When a Fire Alarm occurs (in this example, it is a Callpoint activation), the front screen text will change, indicating which device, or devices have signalled and alarm condition (in the example given, it is device N° 005). The Control Panel will activate the system Sounders and illuminate the applicable flashing Zone Lamp. The display will change to show, **figure 5**.

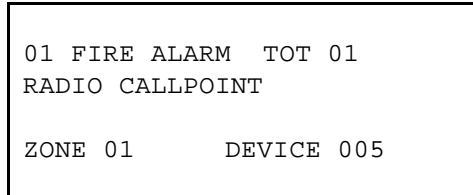


Figure 5

7.0 Accepting Alarms

To “accept” the alarm, insert the key into the Panel Controls keyswitch, located at the bottom right of the Panel (**figure 2**) and turn the key to the “ON” position.

Press the “Silence Alarms” button and the display will briefly show, **figure 6**.

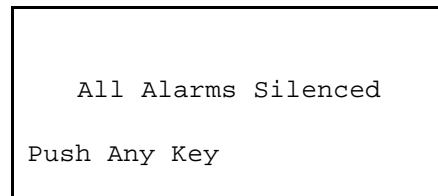


Figure 6

The Control Panel’s Internal Bleeper will sound every 3 seconds, to indicate that an alarm condition exists.

Press the RESET/LED TEST button. The display will indicate the device has RESET, as shown in **figure 7**.

Note: A short delay may be present when resetting devices.

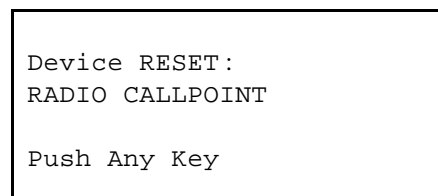


Figure 7

After a short while, or after a key has been pressed, the display will change to show, **figure 8**.

```
Panel In Access  
Date           Time
```

Figure 8

This indicates that the “Panel Controls” keyswitch is still in the ON position. Turn the keyswitch to the OFF position and remove the key. The display will change to show, **figure 9**

```
Status Normal  
Date           Time
```

Figure 9

If, while resetting the alarm, the device is still in an alarm state, for example if the Break Glass on a Radio Callpoint has been broken, the following will occur.

If the Alarm Device is still in alarm, pressing the RESET / LED TEST button will result in the display showing, **figure 10**.

```
Device NOT CLEAR :  
RADIO CALLPOINT  
  
Push Any Key
```

Figure 10

After a short period of time, or after a key has been pressed, the display will change to show, **figure 11**

```
01 FIRE ALARM TOT 01  
RADIO CALLPOINT  
  
ZONE 01     DEVICE 005
```

Figure 11

The Control Panel cannot be reset until the device causing the alarm has been cleared. Once cleared, the Panel can be reset in the normal way. There may be circumstances under which it might not be possible to clear a device. In such cases, the device can be temporarily isolated until engineering support is available, by carrying out the procedure detailed in section 8.

8.0 Isolating A Device After An Alarm Event

If a device develops a fault, and engineering support is not immediately available, it is possible to isolate a device by carrying out the following sequence of operations.

If the device is still in alarm, pressing the RESET/LED TEST button will result in the display changing to show, **figure 12**.

```
Device NOT CLEAR :  
RADIO CALLPOINT  
  
Push Any Key
```

Figure 12

After a short period of time, or after a key has been pressed, the display will revert back to, **figure 13**.

```
01 FIRE ALARM TOT 01  
RADIO CALLPOINT  
  
ZONE 01 DEVICE 005
```

Figure 13

Press the 0 key. The display will change to show, **figure 14**.

```
** Fire System **  
> Dev. Isolate/Test <  
Net. Isolate/Test  
YES = Select Time
```

Figure 14

Press the YES key. The display will change to show, **figure 15**.

```
** Device Status **  
> Number is : 001 <  
Status is : ACTIVE  
YES = Select Time
```

Figure 15

Press the 0 key. The display will change to show, **figure 16**.

```
Enter Device  
(Numbers 1 - 256)  
Number > _  
YES = Finish Time
```

Figure 16

Enter the device number to be isolated (in the example it is device number 005). Press the YES key. The display will change to show, **figure 17**.

```
** Device Status **  
> Number is : 005 <  
Status is : ACTIVE  
YES = Select Time
```

Figure 17

Scroll down until “Status is”, is between the > and < characters, as shown in **figure 18**.

```
Number is : 005  
> Status is : ACTIVE <  
Zone is : 01  
YES = Select Time
```

Figure 18

Press the YES key. The display will change to show, **figure 19**.

```
Number is : 005  
> Status is : ISOLATE <  
Zone is : 01  
YES = Select Time
```

Figure 19

The device will now be isolated. Press the NO key until the display shows Panel In Access. Return the Panel Controls keyswitch to the OFF position, this will now show that the system is clear. The panel will indicate that a Device has been isolated by sounding a soft bleep at approximately 20 second intervals. The “ISOLATED” lamp will illuminate on the Control Panel.

9.0 Isolating A Device Prior To An Alarm Event

It is possible when work is to be carried out on a device to isolate the unit beforehand, to ensure an alarm condition does not occur. To isolate a device prior to an alarm activation carry out the following sequence of operations.

Turn the Panel Controls keyswitch to the ON position, this will result in the display changing to show, **figure 20**.

```
Panel In Access  
Date Time
```

Figure 20

Press the 0 key. The display will change to show, **figure 21**.

```
*** Options ****  
> Passwords <  
Time and Date  
YES = Select Time
```

Figure 21

Scroll down using the ↵ key until “Fire System Opts” is shown between the > and < characters. The display will show, **figure 22**.

```
Logging  
> Fire System Opts <  
Remote Access  
YES = Select Time
```

Figure 22

Press YES. The display will change to show, **figure 23**.

```
  ** Fire System **  
> Dev.Isolate/Test      <  
   Net. Isolate/Test  
YES = Select    Time
```

Figure 23

Press YES. The display will change to show, **figure 24**.

```
  **Device Status **  
> Number is : 001 <  
   Status is : ACTIVE  
YES = Select    Time
```

Figure 24

Press the 0 key. The display will change to show, **figure 25**.

```
Enter Device  
(Numbers 1 - 256)  
Number > _  
YES = Finish    Time
```

Figure 25

Enter the device number to be isolated (in the example it is device number 005). Press the YES key. The display will change to show, **figure 26**.

```
  **Device Status **  
> Number is : 005      <  
   Status is : ACTIVE  
YES = Select    Time
```

Figure 26

Scroll down until "Status is", is between the > and < characters, as shown in **figure 27**.

```
   Number is : 005  
> Status is : ACTIVE <  
   Zone is   : 01  
YES = Select    Time
```

Figure 27

Press YES. The display will change to show, **figure 28**.

```
   Number is : 005  
> Status is : ISOLATE <  
   Zone is   :01  
YES = Select    Time
```

Figure 28

The device will now be isolated. Press the NO key until the display shows Panel In Access. Return the Panel Controls keyswitch to the OFF position, this will now show that the system is clear. The panel will indicate that a Device has been isolated by sounding a soft bleep at approximately 20 second intervals. The "ISOLATED" lamp will illuminate on the Control Panel.

10.0 Re-instating An Isolated Device

Turn the Panel Controls keyswitch to the ON position, this will result in the display changing to show, **figure 29**.

```
Panel In Access  
Date           Time
```

Figure 29

Press the 0 key. The display will change to show, **figure 30**.

```
*** Options ***  
> Passwords           <  
   Time and Date  
YES = Select   Time
```

Figure 30

Scroll down using the \downarrow key until "Fire System Opts" is shown between the > and < characters. The display will show, **figure 31**.

```
Logging  
> Fire System Opts   <  
   Remote Access  
YES = Select   Time
```

Figure 31

Press YES. The display will change to show, **figure 32**.

```
** Fire System **  
> Dev. Isolate/Test   <  
   Net. Isolate/Test  
YES = Select   Time
```

Figure 32

Press YES. The display will change to show, **figure 33**.

```
**Device Status **  
> Number is : 001     <  
   Status is : ACTIVE  
YES = Select   Time
```

Figure 33

Press the 0 key. The display will change to show, **figure 34**.

```
Enter Device  
(Numbers 1 - 256)  
Number > _  
YES = Finish   Time
```

Figure 34

Enter the device number to be re-instated (in the example it is device number 005). Press the YES key. The display will change to show, **figure 35**.

```
  **Device Status **  
> Number is : 005      <  
   Status is : ISOLATE  
YES = Select   Time
```

Figure 35

Scroll down until “Status is”, is between the > and < characters, as shown in **figure 36**.

```
   Number is : 005  
> Status is : ISOLATE <  
   Zone is   : 01  
YES = Select   Time
```

Figure 36

Press YES. The display will change to show, **figure 37**.

```
   Number is : 005  
> Status is : TEST    <  
   Zone is   : 01  
YES = Select   Time
```

Figure 37

Press YES. The Display will change to show, **figure 38**.

```
   Number is : 005  
> Status is : ACTIVE  <  
   Zone is   : 01  
YES = Select   Time
```

Figure 38

The device will now be reinstated. Press the NO key until the display shows Panel In Access. Return the Panel Controls keyswitch to the OFF position, this will now show that the system is clear. If this was the only device isolated on the system the “ISOLATED” lamp will extinguish. If further devices are isolated the panel will sound a soft bleep at approximately 20 second intervals and the “ISOLATED” lamp will be illuminated on the Control Panel.

11.0 Isolating a Network Device.

If a device on a Networked Panel develops a fault, and engineering support is not immediately available, it is possible to isolate the device by carrying out the following sequence of operations on the Control Panel.

When trying to reset an alarm condition if the device is still in alarm, pressing the RESET/LED TEST button will result in the display changing to show, **figure 39**.(example)

```
Device NOT CLEAR :  
  
RADIO CALLPOINT  
  
Push Any Key
```

Figure 39

After a short time period, the display will change.
This shows the device concerned is number 28, a call point, allocated to zone 23 on Network Panel number 04.

```
01 FIRE ALARM TOT 01
RADIO CALLPOINT
ZONE 23 P :04DEV :028
```

Figure 40

Press the 0 key. The display will change to show, **figure 41**.

```
** Fire System **
> Dev.Isolate/Test <
  Net. Isolate/Test
YES=Select      Time
```

Figure 41

Press the \leftarrow key once. The display will change to show, **figure 42**.

```
Dev. Isolate/Test
> Net. Isolate/Test <
  Zone Isolate/Test
YES = Select    Time
```

Figure 42

Press the YES key. The display will change to show, **figure 43**.

```
** Network Status **
> Panel      : 01 <
  Device     : 001
YES = Select  Time
```

Figure 43

Press the YES key to increment the panel number until the required panel number is shown. In this example panel 04 should be selected. The display will change to show, **fig 44**

```
** Network Status **
> Panel      : 04 <
  Device     : 001
YES= Select  Time
```

Figure 44

Press the \leftarrow key once until the display is as shown in , **figure 45**.

```
Panel      : 04
> Device   : 001 <
  Status ACTIVE
YES= Select  Time
```

Figure 45

Press the 0 key. The display will change to show, **figure 46**.

```
Enter Device
Numbers 1 - 256)
Number >
YES= Select  Time
```

Figure 46

Enter the device number to be isolated (in the example it is device number 028). Press the YES key. The display will change to show, **figure 47**.

```
** Network Status **  
> Panel      : 04      <  
   Device    : 028  
  
YES= Select      Time
```

Figure 47

Scroll down until “Status”, is between the > and < characters, as shown in **figure 48**.

```
Device : 028  
> Status : ACTIVE      <  
   Transmit Event  
  
YES = Select      Time
```

Figure 48

Press the YES key until the display changes to show, **figure 49**.

```
Device : 028  
> Status : ISOLATE     <  
   Transmit Event  
  
YES = Select      Time
```

Figure 49

Scroll down until “Transmit Event”, is between the > and < characters, as shown in **figure 50**.

```
Status : ISOLATE  
> Transmit Event      <  
   ^^^^^^^^^^^^^^^^^  
  
YES = Select      Time
```

Figure 50

Press the YES key. The device on the Networked Panel will now be isolated. Press the NO key until the display shows Panel In Access. Return the Panel Controls keyswitch to the OFF position, this will now show that the system is clear. The Networked Panel will indicate that a Device has been isolated by sounding a soft bleep at approximately 20 second intervals and the “ISOLATED” lamp will illuminate.

12.0 Re-instating an Isolated Network Device.

Turn the Panel Controls, keyswitch to the ON position, this will result in the display changing to show **figure 51**.

```
Panel In Access  
  
Date              Time
```

Figure 51

Press the 0 key. The display will change to show, **figure 52**

```
*** Options ***  
> Passwords          <  
   Time and Date  
  
YES= Select      Time
```

Figure 52

Scroll down until “ Fire System Opts’’ is shown between the > and < characters. The display will show, **figure 53**.

```
Logging
> Fire System Opts <
  Remote Access
YES= Select      Time
```

Figure 53

Press YES. The display will change to show, **figure 54**.

```
** Fire System **
> Dev.Isolate/Test <
  Net. Isolate/Test
YES= Select      Time
```

Figure 54

Press the \leftarrow key once. The display will change to show, **figure 55**.

```
Dev. Isolate/Test
> Net. Isolate/Test <
  Zone Isolate/Test
YES= Select      Time
```

Figure 55

Press the YES key. The display will change to show, **figure 56**.

```
** Network Status **
> Panel      : 01 <
  Device     : 001
YES= Select  Time
```

Figure 56

Press the YES key until the required panel number is shown. In this example panel 04 should be selected. The display will change to show, **figure 57**

```
** Network Status **
> Panel      : 04 <
  Device     : 001
YES = Select Time
```

Figure 57

Press the \leftarrow key once until the display is as shown in , **figure 58**.

```
Panel      : 04
> Device   : 001 <
  Status ACTIVE
YES = Select Time
```

Figure 58

Press the 0 key. The display will change to show, **figure 59**.

```
Enter Device
Numbers 1 - 256)
Number > _
YES = Select Time
```

Figure 59

Enter the device number to be re-instated (in the example it is device number 028). Press the YES key. The display will change to show, **figure 60**.

```
  ** Network Status **  
> Panel      04      <  
   Device    : 028  
YES = Select      Time
```

Figure 60

Scroll down until “Status”, is between the > and < characters, as shown in **figure 61**.

```
   Device    : 028  
> Status    : ISOLATE <  
   Transmit Event  
YES = Select      Time
```

Figure 61

Press the YES key until the display changes to show, **figure 62**.

```
   Device    : 028  
> Status    : ACTIVE  <  
   Transmit Event  
YES = Select      Time
```

Figure 62

Scroll down until “Transmit Event”, is between the > and < characters, as shown in **figure 63**.

```
   Status    : ACTIVE  
> Transmit Event <  
   ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
YES = Select      Time
```

Figure 63

Press the YES key. The device on the Networked Panel will now be active. Press the NO key until the display shows Panel In Access. Return the Panel Controls keyswitch to the OFF position, this will now show that the system is clear.

13.0 Viewing The Systems Event Log

It is possible to view events after they have been reset by interrogating the systems log. If for any reason the events can not be reset the device concerned must be isolated before the log can be viewed, (see section 8 for details). The log holds 1000 events and can be viewed in varying degrees of detail ranging from, showing the last incident, viewing a particular dates logged events, to actually viewing the complete systems log. To view the log for a particular date the following sequence of operations will be required to be carried out.

With the system clear turn the Panel Controls keyswitch to the ON position, this will result in the display changing to show, **figure 64**.

```
Panel In Access  
Date           Time
```

Figure 64

Press the 0 key. The display will change to show, **figure 65**.

```
*** Options ****  
> Passwords <  
Time and Date  
YES = Select Time
```

Figure 65

Scroll down using the \downarrow key until "Logging" is shown between the > and < characters. The display will show, **figure 66**.

```
Time and Date  
> Logging <  
Fire System Opts  
YES = Select Time
```

Figure 66

Press YES. The display will change to show, **figure 67**.

```
** Event Logging **  
> View Log At Date <  
View Entire Log  
YES = Select Time
```

Figure 67

Scroll down using the \downarrow key until "View Log At Date" is shown between the > and < characters. The display will show, **figure 68**.

```
** Event Logging **  
> View Log At Date <  
View Entire Log  
YES = Select Time
```

Figure 68

Press YES. The display will change to show, **figure 69**.

```
Enter the date to  
view : / /  
  
YES = Finish Time
```

Figure 69

Enter the date required to be viewed in dd / mm / yy format (in this example 01 / 01 / 97 has been selected) . Press YES. The display will change to show, **figure 70**.

```
-----  
On 01/01/97 At 00:00  
New Day of 01/01/97  
YES = Select      Time
```

Figure 70

The log for the date selected can now be viewed by scrolling through the log using the \leftarrow and \rightarrow keys. All events are time and date stamped and listed in time order.

14.0 Routine Testing

In order to ensure that the system is fully operational and to ensure compliance with B.S.5839 Part1 : 1988, the following routine attention to the system should be carried out. **Note: Records should be maintained of all testing activities.**

Daily.

Check the Control Panel to ensure that it indicates normal operation. If any fault is indicated, check to ensure that it has been recorded in the System Log Book and that the appropriate actions have been taken, e.g. informing the Maintenance company.

Weekly.

Test at least one Detector or Callpoint to confirm the operation of the Panel and the Audible Alarms. A different zone should be tested each week and, if possible, a different device. Record the findings of the test. including the zone and the device, in the Control Panel log book. Any malfunctions must be reported.

Quarterly.

The person nominated as the responsibility for the system, should ensure that every 3 months the system is checked by a competent person. The competent person shall:-

- i) Check the Log Book entries and the results of any action taken.
- ii) Check the standby batteries and the charger voltage.
- iii) Test at least one Device in each zone, to verify the functionality of the Control Panel.
- iv) Check the operation of the Audible Alarms and any link to a remote manned centre, Central Station, etc.
- v) Carryout a visual inspection of the system to check for alterations or obstructions.
- vi) Issue a Certificate of Testing.

Annually.

The responsible person should ensure that, in addition to the quarterly checks, each Device on the system is tested and that a visual inspection is made of the cable fittings and equipment.

Periodic Cleaning.

The Control Panel and Devices should be periodically cleaned by wiping with a soft damp cloth. The use of solvents on the Control Panel or Devices is not recommended.

15.0 Log Book

A system Log Book must be maintained by a responsible person, who shall ensure that every "event" is properly recorded. An event includes all Fire Alarms (whether genuine or false), faults, tests, dates or temporary disconnection or isolation (if applicable) and the dates of service and maintenance visits, with a brief note of work carried out or outstanding.

16.0 Panel Alarm & Fault Displays

The following section contains useful information regarding screen shots and descriptions of alarm and fault conditions and possible causes. If there is more than one alarm shown the \leftarrow and \rightarrow buttons on the control panel can be used to display each event.

FIRE

This display shows a fire alarm has been activated from the device shown on the controller. The following alarm screen will be shown;

Indicates the alarm type and number. ?	01 FIRE ALARM TOT 01 RADIO CALL POINT	Indicates the total number of system ? alarms. ? Shows default or programmed device text.
? Indicates device & zone allocation number.	ZONE 01 DEVICE 005	

FIRE is displayed on an alarm activation from the device shown on the display. Fire and Zone LED's will also light and the controllers Buzzer will sound, when the above screen is displayed.

FIRE NETWORK DEVICE

This display shows a fire alarm has been activated from a network device shown on the controller. The following alarm screen will be shown;

Indicates the alarm type and number. ?	01 FIRE ALARM TOT 01 RADIO CALL POINT	Indicates the total number of system ? alarms. ? Shows default or programmed device text.
? Indicates device , zone allocation and network panel number.	ZONE 01 P :04 DEV :005	

FIRE is displayed on an alarm activation from the device shown on the display. Fire and Zone LED's will also light and the controllers Buzzer will sound, when the above screen is displayed.

PRE-ALARM

This display shows a fire pre-alarm has been activated from the device shown on the controller. The following alarm screen will be shown;

Indicates the alarm type and number. ?	01 PRE-ALARM TOT 01 RADIO CALL POINT	Indicates the total number of system ? alarms. ? Shows default or programmed device text.
? Indicates device & zone allocation number.	ZONE 01 DEVICE 005	

PRE-ALARM is displayed on a pre- activation from the device shown on the display. The detector has been caused to activate but not with sufficient smoke/heat to cause a full Fire alarm event.

Device Fault LED will also light and the controllers buzzer will sound, when the above screen is displayed.

TAMPER

This display shows a tamper alarm has been activated from the device shown on the controllers display. The following alarm screen will be shown;

Indicates the alarm type and number. ?	01 TAMPER TOT 01 RADIO CALL POINT	Indicates the total number of system ? alarms. ? Shows default or programmed device text.
Indicates device & zone allocation number. ?	ZONE 01 DEVICE 005	

TAMPER represents a devices tamper circuit has been activated. Device Fault LED will also light and the controllers buzzer will sound, when the above screen is displayed.

FAULT

This display shows a fault has been activated from the device shown on the controller. To determine which type of fault has occurred, the systems log must be interrogated. The following fault screen will be shown;

Indicates the alarm type and number. ?	01 FAULT TOT 01 RADIO CALL POINT	Indicates the total number of system ? alarms. ? Shows default or programmed device text.
Indicates device & zone allocation number. ?	ZONE 01 DEVICE 005	

FAULT covers a number of possible device faults. The systems log must be interrogated to discover the type of fault received. Associated fault types are as follows; Detector call in fail, Detector head missing, Device low battery and Detector head requires changing due to contamination. Device Fault LED will also light and the controllers buzzer will sound, when the above screen is displayed.

FAULT: BT MN

On a system mains failure the controller will switch into battery safe mode. This will turn the display completely off and the Supply Healthy LED will extinguish. Pressing any key on the panel will re-activate the display and the following fault screen will be shown;

Indicates the alarm type and number. ?	01 FAULT TOT 01 MAIN CONTROL PANEL	Indicates the total number of system ? faults. ? Shows where the fault is located
Fault Description ?	FAULT:BT MN TIME	

FAULT BT represents the units batteries are no longer being charged.

*FAULT MN represents the controller has had a mains failure.
The Common Fault LED will also light when the above screen is displayed.*

FAULT: BT

This fault can be displayed for a number of reasons. Firstly there are no batteries present in the unit, secondly the batteries are not charging and lastly the battery voltage is low. The battery charging and low voltage readings are checked once a day at midnight, whilst if batteries are not present in the unit the fault will be displayed immediately. The following fault screen will be shown for all of the above reasons;

Indicates the alarm type and number. ?	01 FAULT TOT 01 MAIN CONTROL PANEL	Indicates the total number of system ? faults. ? Shows where the fault is located
Fault Description ?	FAULT:BT TIME	.

FAULT BT represents the units batteries are no longer being charged, batteries are not present in the unit or the batteries voltage is low. The Common Fault LED will also light when the above screen is displayed.

FAULT: PR

Whenever the controllers processor is reset, this includes initial power up, the following fault screen will be shown;

Indicates the alarm type and number. ?	01 FAULT TOT 01 MAIN CONTROL PANEL	Indicates the total number of system ? faults. ? Shows where the fault is located
Fault Description ?	FAULT:PR TIME	.

*FAULT PR represents the units internal processor has been restarted.
The Common Fault LED will also light when the above screen is displayed.*

FAULT: RI

This fault represents the controller is receiving unknown radio signals above an acceptable level. This level will vary for each installation because of the surrounding local environment. The following fault screen will be shown;

Indicates the alarm type and number. ?	01 FAULT TOT 01 MAIN CONTROL PANEL	Indicates the total number of system ? faults. ? Shows where the fault is located
Fault Description ?	FAULT:RI TIME	.

*FAULT RI represents the unit is receiving Radio Interference.
Common Fault LED will also light and the controllers buzzer will sound, when the above screen is displayed.*

FAULT: OL

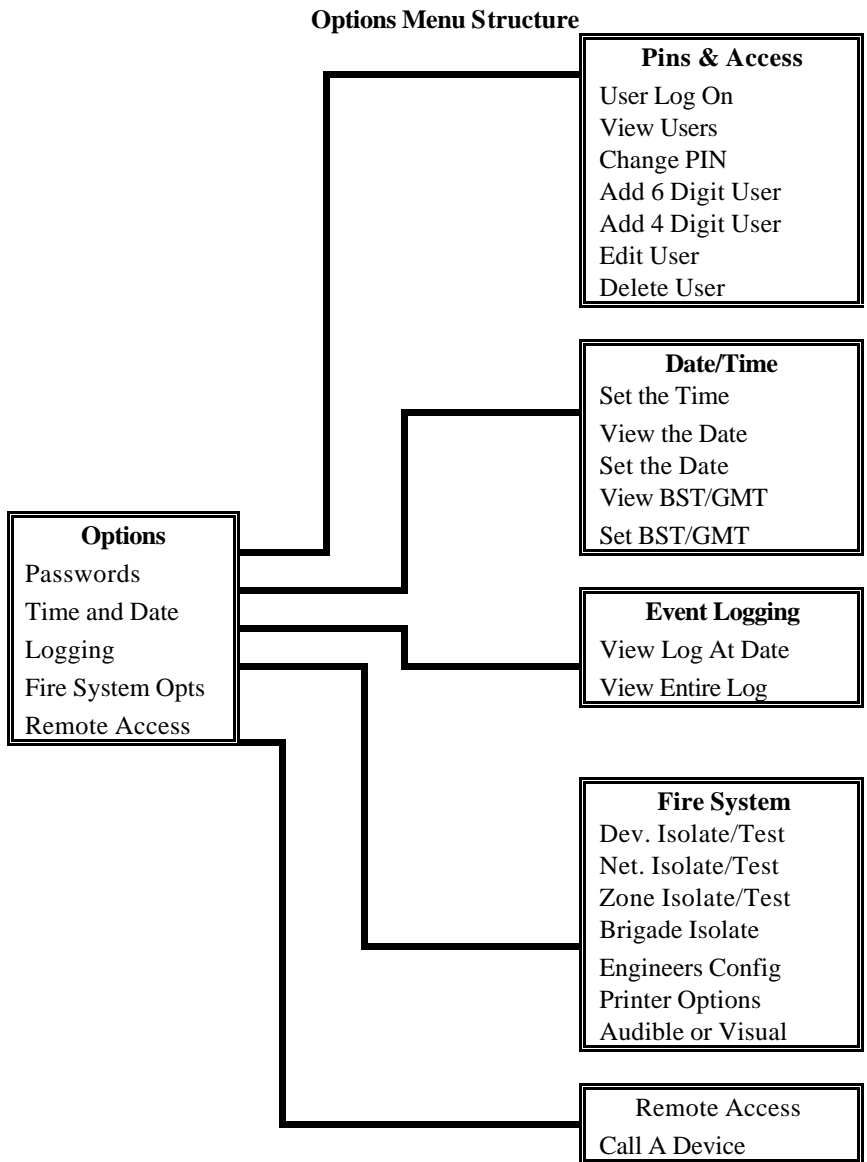
This fault shows the controller is currently Off Line on either a hardwired or radio networked system. This indicates the control panel is no longer communicating with the network system. If this has taken place the following fault screen will be shown;

Indicates the faults number. ?	<table border="0"> <tr> <td style="padding-right: 20px;">01 FAULT</td> <td>TOT 01</td> </tr> <tr> <td colspan="2">CONTROL PANEL</td> </tr> </table>	01 FAULT	TOT 01	CONTROL PANEL		? Indicates the total number of system faults.
01 FAULT	TOT 01					
CONTROL PANEL						
Fault description. ?	<table border="0"> <tr> <td style="padding-right: 20px;">FAULT:OL</td> <td>12:34</td> </tr> </table>	FAULT:OL	12:34	? Shows where the fault is located.		
FAULT:OL	12:34					

FAULT OL represents the control panel is currently off-line with the network system. Common Fault LED will also light and the controllers buzzer will sound, when the above screen is displayed.

17.0 Menu Structure & Glossary

The following menu structure and options are available to the user by turning the Panel Controls to the ON position and pressing the 0 key.



Passwords

To enter the Passwords Menu use the \leftarrow and \rightarrow keys to position “Password” between the > and < characters on the display and then press the YES key. The following options will now be available.

User Log On:

This option invites a PIN (Personal Identification Number) to be entered. PIN’s have security levels allocated to them which allow further panel functions to be made available. The lower the security level that is allocated to a user the greater the functions available.

View Users:

This option allows the users that have been allocated PIN’s to be displayed on the LCD screen. The users name and security level are shown, the PIN is not shown.

Change PIN:

This option is only available after a valid PIN number has been entered in the User Log On section. Once this has been entered a user is allowed to change his or her PIN from this menu.

Add 6 Digit User:

This menu option allows an additional user to be added to the system. On selecting this option the system prompts for a User Name. To enter a users name the Control Panel’s keys have the following functions.

KEY	FUNCTION
0	Inserts a space in the text where the cursor is positioned.
4	Moves the characters directly above the character selector , to the right, one character at a time.
5	Inserts the character directly above the character selector , in the position indicated by the cursor.
6	Moves the characters directly above the character selector , to the left, one character at a time.
7	Moves the cursor to the left, through the new user name, one character at time.
8	Moves the characters directly above the character selector , to the left, 12 characters at a time.
9	Moves the cursor to the right through the new user name, one character at a time.
\leftarrow	Deletes the new user name character to the left of the cursor.
\rightarrow	Saves and completes the current activity and returns the program to the appropriate display.

Table 1

Once this has been entered the system prompts for a security level between 02 and 99. After the security level has been entered press the 3 key to escape from the Menu. The Change PIN option should be selected and the new user invited to establish his/her PIN. The user will be required to use a six digit PIN to gain entry to the system.

Add 4 Digit User:

This menu option allows an additional user to be added to the system. On selecting this option the system prompts for a User Name. To enter the users name the control Panel keys have the functions shown in Table 1. Once this has been entered the system prompts for a security level between 02 and 99. After the security level has been entered press the 3 key to escape from the Menu. The Change PIN option should be selected and the new user invited to establish his/her PIN. The user will be required to use a four digit PIN to gain entry to the system

Edit User:

This option allows the User Name and Security Level to be changed. The PIN cannot be changed using this menu option.

Delete User:

This option allows a user to be deleted. When this option is selected, a list of the current users on the system is displayed. By using the \leftarrow or \rightarrow keys the appropriate user can be selected by placing their name between the > and < symbols. The system then asks for confirmation that the user is to be deleted.

Time and Date

To enter the Time and Date Menu use the \leftarrow and \rightarrow keys to position "Time and Date" between the > and < characters on the display and then press the YES key. The following options will now be available.

Set The Time:

This option enables the correct time to be set. The system has a real time clock which time and date stamps all loggable events.

View The Date:

This allows the date programmed into the system to be viewed from the display. The date is used for the recall of the log and the BST/GMT change over.

Set The Date:

This allows the date programmed into the system to be changed on the display.

View BST/GMT:

This allows the dates programmed in for the time change to be viewed. These are dates that will automatically change the time to bring the panel's clock in-line with British Summer Time and Greenwich Mean Time. These should be programmed to ensure that the panels clock changes in unison with the time change. If the panel is being used in a different country these dates would not need to be entered.

Set BST/GMT:

This allows the dates programmed in for the time change to be altered. See above section for further details. The dates entered will require updating each year.

Logging

To enter the Logging Menu use the \leftarrow and \rightarrow keys to position "Logging" between the > and < characters on the display and then press the YES key. The following options will now be available.

View Log At Date:

This option allows you to view the log of events for a particular date. Use the \leftarrow and \rightarrow keys to scroll through the events listed.

View Entire Log: This option allows the whole 1000 event log to be viewed. Use the \leftarrow and \rightarrow keys to scroll through the events listed.

Fire System Opts

To enter the Fire System Opts Menu use the \leftarrow and \rightarrow keys to position "Fire System Opts" between the > and < characters on the display and then press the YES key. The following options will now be available.

Dev. Isolate/Test:

The option allows individual devices that form part of the Fire System, such as a smoke detector or call point to be viewed and changed from their normal active status to isolate or test. In this way should a detector develop a fault it can be isolated so that the control panel does not respond to it at all or it can be put into test so that the control panel logs any alarms from the device for later analysis, but does not cause the panel to activate any sounders or relay outputs.

This function also allows any detector that has been isolated or put into test mode to be reinstated onto the system by changing its status back to active. If any detectors on the system are isolated or in test mode the relevant front panel lamps will light to indicate the fact. Pressing the YES key will increment the device number being displayed to the next device on the system. If the 0 key is pressed the system will ask for a device number to be entered, when this has been done the system will automatically show the settings for that particular device. Valid device numbers range from 0 -256. 0 being the control panel itself, 1-4 are allocated for hardwired devices and 5 -256 are allocated for radio fire devices. The panel itself can be isolated, but it will automatically become Active again after a 30 minute time period.

Net. Isolate/Test:

This option allows individual devices which are logged onto other control panels on the Networked Fire System, such as a smoke detector or call point to be viewed and changed from their normal active status to isolate or test. In this way detectors can be isolated or put into test from other control panels on the Network System. This function also allows any detector that has been isolated or put into test mode to be reinstated onto the system by changing it's status back to active. To send the information to other panels on the network four actions are required, these are as follows: i) Select the panel number which has the detector to be changed in it's database. This is done by pressing the YES key to increment the panel number from 1 -63.

ii) Select the detector which is to have it's status changed. This can be achieved by pressing the YES key to increment the device number, alternatively if the 0 key is pressed the system will ask for a device number to be entered. iii) Select the status the detector is required to be changed to, available options are Active, Isolate and Test. iv) Select the transmit event option which will actually send the new device status command to the required Network Control Panel. The relevant front panel lamps will light to indicate if any detectors are isolated or in test mode.

Zone Isolate/Test: This option allows the configuration of the zones to be viewed. The zone variants can be either all, two phase, test, isolate or single. If any zones on the system are isolated or in test mode the relevant front panel lamps will light to indicate the fact. Pressing the YES key will increment the zone number being displayed. If the 0 key is pressed the system will ask for a zone number to be entered, when this has been done the system will automatically show the settings for that particular zone. Valid zone numbers range from 1 -96. A full explanation of the zone variations is detailed below.

All:- With the zone status set to ALL, any device allocated to that zone will activate all of the sounders in the system when a fire signal is sent.

Two Phase:- With the zone status set to TWO PHASE, when any device that is allocated to that zone sends a fire signal, the sounders in that zone will activate the fire tone, whilst any other sounders on the system will activate an evacuate tone.

Test:- When the zone status is set to TEST, if any device that is allocated to the zone sends a fire signal, the sounders and internal relays will not activate but the activation is displayed on the front panel and recorded into the systems log. If any zones on the system are in test the test mode lamp on the front panel will light.

Isolate:- When the zone status is set to ISOLATE, any device that is allocated to that zone will have all signals sent ignored by the panel, the sounders and internal relays will not activate, and the activation will not be displayed on the front panel or recorded into the systems log. If any zones on the system are in isolate the isolated lamp on the front panel will light. Note: A sounder that is allocated to this zone will, when a Sound Alarms signal is sent from the panel by pressing the key on the front of the unit, still activate.

Single:- With the zone status set to SINGLE, when any device that is allocated to that zone sends a fire signal, only the sounders in that zone will activate.

Brigade Isolate:

This option allows the Brigade relay to be isolated. Therefore any subsequent fire activation's will not operate this relay. The panel operation, although unaffected, will display the text BRIGADE ISOLATED to ensure the system is not left in this mode. All local indications will occur as normal.

Engineers Config:

This option when entered prompts for an Engineers PIN number to be entered.

Printer Options:

This option allows the printer, when fitted, to be enabled or disabled. When enabled and the option is set to ALL, every event is printed out as well as being written to the system log. This option can also be set to FIRE which will then only print any fire events, but every event will still be written to the system log. There is also an option for Manual Paper feed which when entered feeds the paper through the printer to ease paper changes.

Audible or Visual:

This option allows a delay to be enabled or disabled before the sounders are activated in the event of a fire. The delay is used to allow verification of the fire before activating the systems sounders. The delay does not affect the operation of the Brigade relay.

Visual :- If the option is set to VISUAL the sounders will follow any delay time that has been programmed into the system for the radio sounders. If the system has a sounder delay programmed and the Radio Sounders are ON when the key is in the OFF position, the text FIRE ALARM VISUAL will be displayed on the panel.

Audible:- If the option is set to AUDIBLE any delay is ignored and the sounders are activated immediately.

Remote Access

This option allows remote panels to be called, so that the status of another panel in the system can be viewed from the main panel. This allows all functions to be performed as though the user was in front of the remote panel called.

Call a Device:- This option allows a remote panel to be called by scrolling through the menu by using the up and down key and pressing yes when the desired panel description is between the arrows.

When the call has finished press and hold the down call for five seconds until control has been released.

Notes: