

Control Panel User Guide

TWINFLEX[®]pro²



<http://www.fike.co.uk/resource-downloads/twinflex/>

Fire Detection & Alarm System Control Panel (Suitable for control panels from V3.00)

Doc. 26-1028
Rev. 5

Fike[®]

SOLUTIONS

- / Fire Protection
- / Explosion Protection
- / Overpressure Protection
- / Pressure Activation

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Due to the complexity and inherent importance of a life risk type system, training on this equipment is essential and commissioning should only be carried out by competent persons.

Fike cannot guarantee the operation of any equipment unless all documented instructions are complied with, without variation.

E&OE.

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Introduction

Purpose of the Guide

This guide is provided to enable the person responsible for the fire alarm system (see Definitions) to operate the system, undertake their responsibilities with regard to testing and maintenance of the system, and to record events and service/maintenance visits.

This is a generic document and therefore refers to the system components in general terms only. The details of the installed system should be recorded in the space provided within this guide, and for further reference, the record drawings (if applicable) should be consulted.

The responsible person, and any other staff who may be required to operate the system in an emergency, should read and understand the basic operating instructions **before an emergency situation occurs**.

Definitions

Responsible person:

The person having control of the premises, whether as an occupier or otherwise, or any person delegated by the person having control of the premises to be responsible for the fire alarm system and the fire procedures.

Competent Person:

A person competent to perform a defined task:

Normally a competent person will be an employee of the manufacturer, installer or servicing contractor, or servicing contractor, or a member of the end user's staff who has received suitable training from the manufacturer, supplier or installer.

Understanding the Equipment

What is TWINFLEX® pro² ?

TWINFLEX® pro² is the name of the range of fire alarm control panels that use the associated TWINFLEX® Multipoint and ASD devices which together form the fire alarm system installed in the premises. Devices may be connected over up to 8 zones, depending on the capacity of the panel. 2 zone, 4 zone and 8 zone versions are currently available.

Advantages of the TWINFLEX®pro² system are significantly reduced cabling costs, enhanced flexibility and flexible expansion capacity if required.

The TWINFLEX®pro² system is an intelligent '2-wire' system utilising a conventional type cabling format. The system is classed as 'Analogue non-addressable' due to the architecture used within the design. All field devices including sounders can be connected to the zone via a common 2-core screened cable. The devices communicate with the control panel using the 'TWINFLEX®' data protocol.

The TWINFLEX®pro² panel is able to recognise and separately identify between smoke detector, heat detector (this feature is only available with the ASD type of detectors, not the Multipoint) and a manual call point alarm. The panel also monitors each zone for detector head removal, device fault, 'End of line' fault and open or short circuit fault.

The TWINFLEX®pro² control panel also provides two monitored outputs that may be configured as conventional sounder circuits or conventional 24V monitored relay circuits. A volt free common fire relay and a volt free common fault relay are also provided.

There are also two multifunction latching/non-latching inputs and one monitored input. These inputs are programmable with options such as 'Technical Alarm' (sometimes known as a Class Change) and 'Remote fire input' etc.

What is Multipoint and ASD?

This is the name of the automatic detectors used in the TWINFLEX®pro² installation. The Multipoint and ASD are unique devices, which provide several modes of detection & sensitivity options within a single device, enabling it to be easily configured for the application. One detector can function as a smoke detector or heat detector (or both), and with various levels of sensitivity to suit the environment.

The Multipoint and ASD detectors may also incorporate an integral sounder and strobe for general alarm annunciation or local warning as required and an 'End of Line' device for cable fault detection.

System Configuration

The detectors and call points are arranged in zones to enable the approximate location of a fire alarm to be identified. The number of zones depends on the size and the layout of the premises, and is limited to a maximum of 8 zones per control panel. There should be a chart or drawing provided with the system indicating the area and layout of the zones – ensure that you are familiar with the zone layout so that appropriate action can be taken in the event of a fire alarm.

The control panel display may also give you a zone number, a zone description and a device type for the device which has operated.

The system may be interfaced with the building services, e.g., the air conditioning may be shut down when the alarm sounds. Make sure that you know what happens when the fire alarm operates as this can affect routine system testing.

The TWINFLEX®pro² control panel incorporates an integral power supply unit and requires **2 x 12V 3.2Ah (or 3.3Ah) batteries** to provide up to 48 hour standby times. For 72 hour standby times a separate external battery box can be purchased which requires **2 x 12V 7Ah batteries**.

All standby times depend on the system loading (refer to Technical Data for further information). Standby battery calculations may be made using the TWINFLEX®pro² Panel Battery & Loading Unit Calculation Sheet (document no. 26-1116).

Unlike most conventional fire alarm systems, which require separate pairs of cables for detector zones and sounder circuits, the TWINFLEX®pro² system requires one 2-core screened cable for each zone to accommodate both detection devices and sounders. Furthermore sounders are incorporated within the detector to reduce system components and simplify installation.

What to do if . . .

The fire alarm sounds;

CARRY OUT THE PRESCRIBED FIRE DRILL

When it is safe to do so silence the alarms and reset the system, having first established the cause of the alarm (refer to Operation).

The buzzer sounds;

If the buzzer sounds without the alarm sounders operating it is likely to be a fault or other abnormal condition.

Make a note of **all** illuminated LEDs and displayed messages, record the time that the condition occurred (if known), and other events within the building, eg., power failure, contractors working, etc., (Refer to troubleshooting). Call the service company with as much information as possible.

User Responsibilities

Introduction

The responsible person is required under BS5839 to undertake certain tasks with respect to the testing and maintenance of the fire alarm system. The responsible person should also ensure that written procedures are in place for the actions to be taken by the occupants in a fire condition, and that staff required to operate the system have received adequate training. In a small building the fire procedures can be quite simple, but when larger premises are involved the fire procedures can become more complex and may involve the appointment of fire wardens, reporting procedures, various assembly points, etc.

The responsible person is also required to liaise with the building maintenance personnel to ensure that their work does not impair or otherwise affect the operation of the fire alarm system, and to ensure that a clear space is maintained in the vicinity of detectors, and call points remain unobstructed and conspicuous.

Routine Testing

The responsible person should also ensure that the following routine testing is carried out. If there is a link to a remote monitoring centre it will be necessary to advise the centre prior to a test, or use the control panel facilities to isolate the link. On larger systems it may be necessary to isolate building services interfaces to avoid disruption to the occupants. In any case the panel should provide audible and visual indication that parts of the system are disabled.

Daily

Check that the panel indicates normal operation and that any fault is recorded. Also check that the recorded faults have been dealt with.

Weekly

At least one detector or call point should be operated to test the ability of the control equipment to receive a signal and sound the alarm.

In practice it is far easier for the user to activate a manual call point, rather than a detector which requires special equipment. A different device should be tested each time if possible, such that each zone on the system is tested at least once in a 13 week period.

The results should be recorded in the log book.

Quarterly

'The responsible person should ensure that every three months the following check is carried out by a competent person'

In other words the system should be checked by a fire alarm service organisation. This may be the system installer or an approved maintenance company, and is normally arranged via a maintenance agreement which specifies the number of visits and the level of service. The agreement should also cover non-maintenance visits, e.g. call outs to attend faults, etc.

The standard specifies a number of maintenance tasks which include a visual inspection of the installation to ensure that there are no alterations or obstructions which could affect the operation of the system, and functional checks to confirm the operation of the system.

Any defects should be recorded in the log book and reported to the responsible person. A certificate of testing should also be completed and given to the responsible person.

Annual

The requirements of the annual test are similar to the quarterly test except that each device on the system should be tested. Different service organisations may undertake device testing on the same visit, ie. One major service and three minor service visits per year, or they may test a percentage of the devices on each visit so that they are all tested within the 12 month period.

Action by the user after a fire

Advise the servicing company and arrange for the system to be tested by them. A certificate of testing should be issued to confirm the system operation following the inspection and any remedial work that is necessary.

Action by the user after any false alarm

The user can assist the servicing company in the identification of false alarms by observing the following:

- Always make a note of all illuminated indicators and messages displayed at the control panel.
- Try and identify the activated device, i.e. Do not reset the system until the area of the incident has been inspected.
- Record any other incidents occurring at the same time which could affect the system, e.g. power supply failure, building works, etc.

The service organisation will be more likely to trace the false alarm if the above information is available.

Action by the user following a fault

When a fault is reported by the control panel, the user should note all illuminated LEDs and messages displayed, and the circumstances at the time the fault occurred, and report to the servicing company.

The service company will be able to advise if the system is still able to respond to a fire alarm or whether extra vigilance should be observed until the fault is rectified. Faults should not be left unreported.

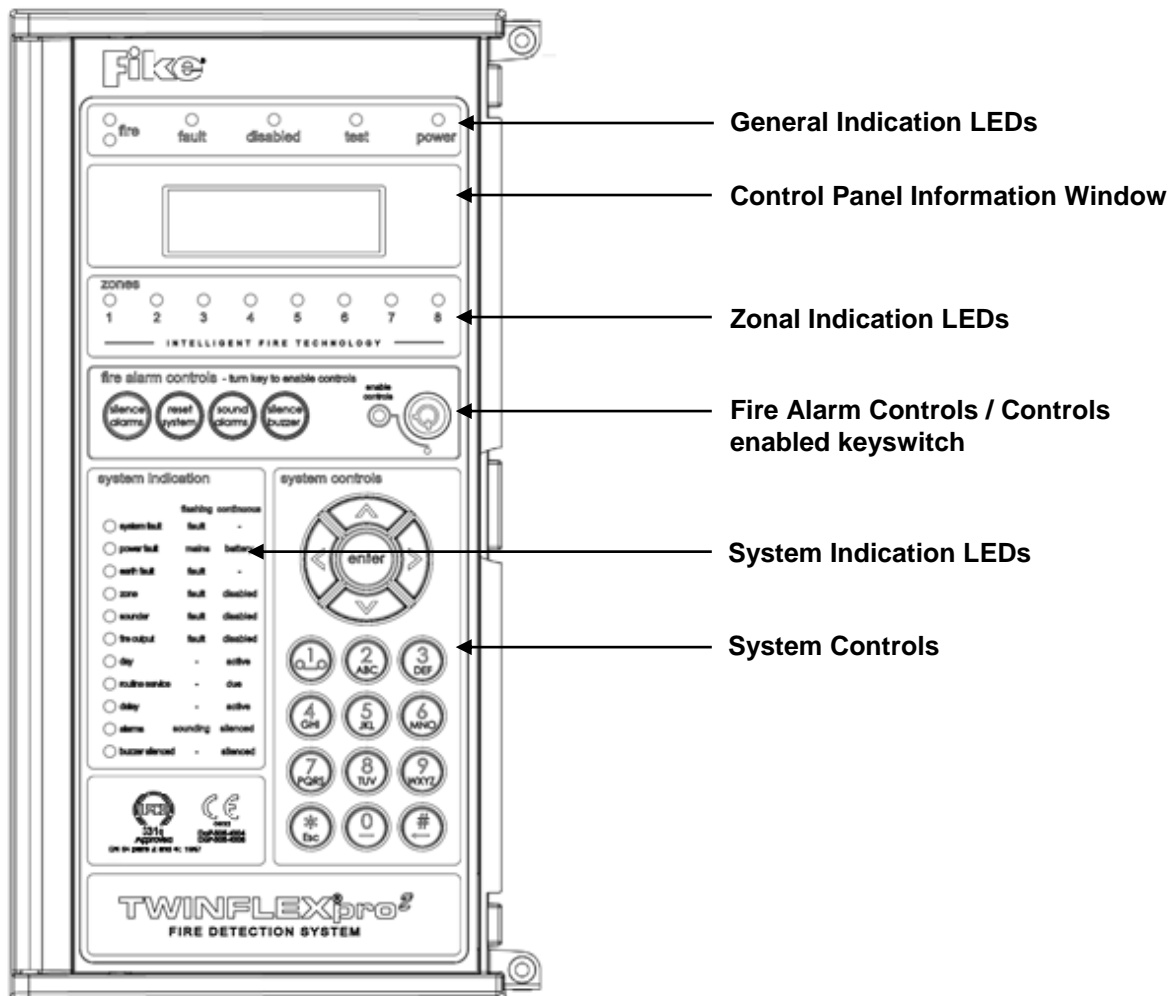
General Operation

Normal: Controls Enabled LED off

At Access Level 1 (Normal), the main **Fire Alarm Controls** are **disabled** and the Controls Enabled LED is switched off – see Fire Alarm Controls.

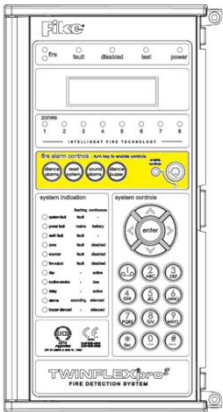
Control Panel Front

Note : 4 Zone / 8 Zone Panel version shown

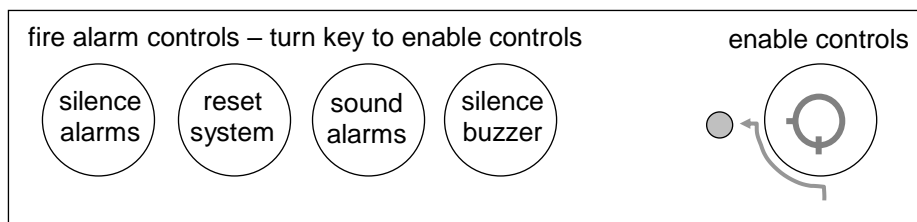


Fire Alarm Controls

Note : 4 Zone / 8 Zone Panel version shown

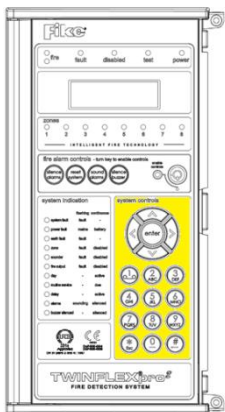


The main Fire Alarm Controls may be enabled by turning the key switch to the controls enabled position, or by entering a valid Access code.



System Controls

Note : 4 Zone / 8 Zone Panel version shown



A context-driven highlighted-selection menu system is used to pilot around the menu system, automatically prompting you with the relevant options for your Access Level and system status.

The menus may be navigated in one of two ways as required:

1. Use the **UP** / **DOWN** keys to move the highlighted selection and press **ENTER** to select the chosen one.
2. Enter the desired option number and press **ENTER** to select it.

Press the **ESC** key to exit to the previous menu.

Access Levels and Codes

The menu system is divided into four access levels in order to restrict access to those who require it. For simple indication the status of the **Controls Enabled** light will show the level selected as follows;

Access Level	Description	Controls Enabled LED	Key Operation
1 – NORM	Normal	OFF	N/A
2A – USER	User	ON	YES
2B – SUPR	Supervisor	SLOW FLASH	NO
3A – ENGR	Engineer	FAST FLASH	NO
3B – ENGR	Engineer	FAST FLASH	NO

Access to the menu system requires either the operation of the **enable controls key** to Access Level 2A (User), or the correct entry of the relevant code for access to all other levels, in order to protect against unauthorised access to the system. The codes may be changed using the relevant panel menu or via the TWINFLEX®pro² OSP software. TWINFLEX®pro² OSP software is only operational in engineer level, details of which are given in the TWINFLEX®pro² Engineer and Commissioning Manual. Access to 3B will require the removal of the right hand panel and should not be removed by the user.

A valid access level code must be entered in order to access any of the menus.

Fire Alarm

When the panel enters the fire state, the alarms will sound, the fire LEDs will illuminate, the buzzer will pulse quickly and the display will show the location and type of alarm.

On Hearing the Alarm

The responsible person should have already prepared written procedures for the action to be taken in the event of a fire alarm. When the alarm sounds these procedures should be implemented.

Accessing the Controls

The user controls are accessed from Access Level 2A (User), or Access Level 2B (Supervisor) which is reached as follows:

1. Turn the key,
Or

The 'Enable Controls' light will light up continuously, and **USER** is displayed in the top right hand corner of the LCD display screen.

Enter your 4-digit Access Level 2A (User) or Access Level 2B (Supervisor) code,

The buzzer will be heard on each key press, and when successfully entered the 'Enable Controls' light will light up continuously, and **USER** or **SUPR** is displayed in the top right hand corner.

You are now in Access Level 2A (User) or Access Level 2B (Supervisor) and may proceed to silence and reset the system.

Silencing the Alarms

When the fire procedures have been carried out and it is safe to silence the alarm, proceed as follows.

- | | |
|---|---|
| 1. Enable the controls and then press ' SILENCE ALARMS ' | The alarm sounders should silence, but the buzzer and the fire indication lights should remain. |
|---|---|

Resetting the System

Before attempting to reset the system, the cause of the alarm should be established and cleared.

- | | |
|---|--|
| 1. Enable the controls and then press ' RESET SYSTEM ' | The buzzer and the fire indication lights should switch off. |
|---|--|

However, if any alarm condition still exists, e.g. a manual call point requires resetting, then the panel will revert to the fire state until the cause for the alarm is removed.

Note: if the panel does not reset or a fault condition is displayed, call your maintenance engineer immediately.

Sounding the Alarms

To sound the alarms at any time after they have been silenced, proceed as follows:

- | | |
|---|---|
| 1. Enable the controls and then press ' SOUND ALARMS ' | The alarm sounders will activate. The buzzer will also switch on. |
|---|---|

Silencing the Buzzer

To silence the buzzer press the [**SILENCE BUZZER**] button at access level two as above.

- | | |
|---|------------------------------------|
| 1. Enable the controls and then press ' SILENCE BUZZER ' | The fault buzzer will be silenced. |
|---|------------------------------------|

Exiting Access Level 2A (User) or Access Level 2B (Supervisor)

In order to prevent unauthorised access to the system, return to Access Level 1 (Normal). However, if left untouched the display will time out after a short while and return automatically to Access Level 1 (Normal).

- | | |
|--|---|
| 1. Turn the key OFF if it is turned on. | The 'Enable Controls light will switch off and the controls are disabled. |
|--|---|

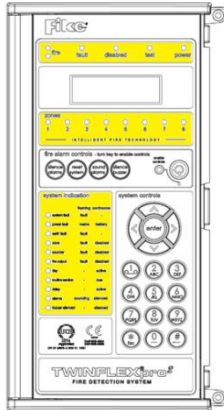
Or;

Press '**ESC**' until the system shows **NORM** in the top right hand corner.

NORM is displayed in the top right hand corner.

LED Indication

Note : 4 Zone / 8 Zone Panel version shown



The operation of the LED indication on the front of the control panel is described below. The LED indication on the panel can also be confirmed by checking the message displayed in the panel information screen or by accessing the relevant event log from the panel menu

Description	Colour	State	Reason
FIRE	Red	Continuous	The control panel is in the fire state. Other indicators will show the origin
FAULT	Yellow	Continuous	The control panel is in the fault state. Other indicators will show the origin
DISABLED	Yellow	Continuous	This indicates that a disablement action is in place. Enable all devices / actions to clear.
TEST	Yellow	Continuous	This indicates that a test routine is in place. End all tests to clear.
POWER	Green	Continuous	This indicates that power is being supplied to the control panel from either the 230V AC mains supply, or the standby batteries.
'ZONE 1-8' ('Zone 1-2' for 2 zone panel)	Red	Continuous	A Detector or Manual Call Point in the zone indicated is in the alarm state and sending an alarm signal to the panel.
SYSTEM FAULT	Yellow	Continuous	The system Fault LED indicates the presence of a processor or a checksum error. Power the system down to clear, reprogram all settings and test the system.
		Flashing	This LED will also be illuminated if the 'write protect / write enable' switch is left on whilst the system is not in the engineer menu.
POWER FAULT	Yellow	Flashing	A mains supply fault has been detected (check for a 230V AC supply on the incoming AC terminals).
		Continuous	A battery fault has been detected (check batteries and in-line battery fuse)
EARTH FAULT	Yellow	Flashing	An earth fault has been detected where a path exists from the circuit wiring to earth. Remove circuits one at a time to discover which one, and then rectify.
ZONE	Yellow	Flashing	A fault condition is present one of the zones or a device connected to that zone.
		Continuous	A device or an action associated with a zone has been disabled

SOUNDER	Yellow	Flashing Continuous	A fault condition is present on a monitored sounder circuit. A device or an action associated with the monitored sounder circuits has been disabled.
FIRE OUTPUT	Yellow	Flashing Continuous	A fault condition is present on a monitored Relay circuit. A device or an action associated with the monitored relay circuit has been disabled.
DAY	Yellow	Continuous	The system has gone into the less sensitive day mode as programmed.
ROUTINE SERVICE	Yellow	Continuous	The pre programmed service interval has expired and a weekly test or routine maintenance check is due.
DELAY	Yellow	Continuous	An action has been started which utilises a programmed delay.
ALARMS	Yellow	Flashing Continuous	The alarm sounders have been activated The alarm sounders have been silenced whilst operating, and the system is awaiting a reset.
BUZZER SILENCED	Yellow	Continuous	The control panel buzzer has been silenced whilst operating and will stay silenced until another fault or relevant action occurs.

During a system fault, dependent upon what caused the fault, all relays will be off, all zones will be powered down, the zone, power fault and disabled LEDs will be on continuously. If any output is set to sounder then the Sounder LED will also be on continuously.

To recover from this the panel should be powered down for approximately 2 minutes and then re-powered. This should be done by a competent person and entered in the log at the end of this manual. If the panel appears to be operational, then a reset will clear the fault and should be entered into the log at the end of this manual.

The only exception to this is the write enable switch. In access levels 1 and 2, if the switch is on, a system fault will be indicated on the LEDs and display, the fault relay will be off but it has no effect on the operation of the panel and serves as a reminder to the Engineer to switch off write enable before leaving the panel.

If the display is blank and no LEDs are showing, then either the unit is not powered or the mains has failed and the batteries are lower than 21V. To recover from the low battery shut-off, down power completely and check the batteries are no lower than 21V and then power up the system.

If the batteries are lower than 21V, then they should be replaced or monitored during initial charging to ensure they recharge correctly. This could take several hours.

If the batteries are below 18V they should be replaced as they will have lost much of their capacity and are unlikely to recover. This could leave the system with no power under mains fail conditions.

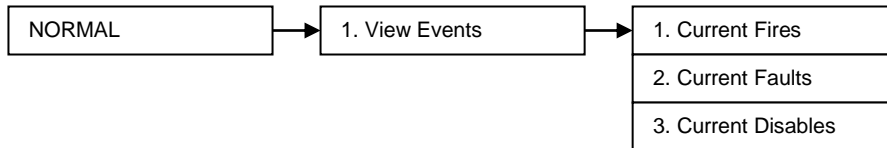
Troubleshooting

Problem	Possible Cause	Remedial Action
Unable to silence alarms	Panel not in Access Level 2A (User) or Access Level 2B (Supervisor)	Enter Access Level 2A (User) or Access Level 2B (Supervisor) - see section on operation.
Unable to reset system	Alarms not silenced	Silence alarms before attempting to reset the system.
	Panel not in Access Level 2 (User) or Access Level 2B (Supervisor)	Enter Access Level 2 (User) or Access Level 2B (Supervisor) - see section on operation.
	Alarm condition still present	Remove cause of alarm, eg. reset call point element with key
Buzzer sounding, FAULT LED lit	Fault or abnormal condition	Note all illuminated LEDs and displayed messages. Call engineer.
Buzzer sounding, POWER FAULT LED flashing, 'Mains supply failed' displayed.	Mains supply failure	Wait until mains supply is restored – if panel does not revert to normal operation call engineer.
Buzzer sounding, SYSTEM FAULT LED lit	Control panel fault	Call engineer immediately.
Any other fault or abnormal behaviour	Various	Note all illuminated LEDs and displayed messages. Call engineer.

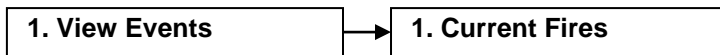
Advanced Operation

Access Level 1 (Normal): Controls Enabled LED off

At Access Level 1 (Normal), the main **Fire Alarm Controls** are disabled and the following **System Controls** will only be accessible if a fire, fault or disablement is active on the panel:



These are described below. Note that actual display indications may differ from those shown in the grey boxes below, depending on actual set up.



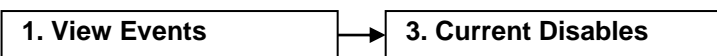
FIRE 001 OF 001
Z01: ZONE 01
Press <> OR Esc Key

The Active Log will display any current fires. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.



FAULT 001 OF 001
Z00: NA
Batt – Low Vtg
Press <> OR Esc Key

The Active Log will display any current faults. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

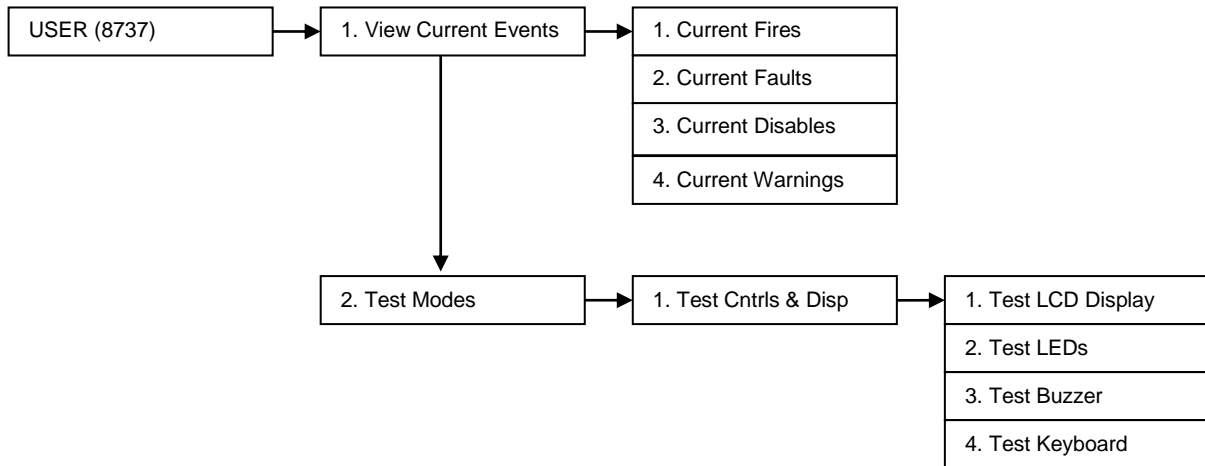


01/09/09 22:26 NORM
01.REMOTE FIRE
Press <> OR Esc Key

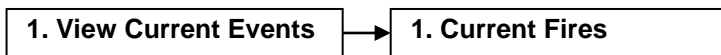
The Active Log will display any current disables. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

Access Level 2A (User): Controls Enabled LED on

At Access Level 2A (User), the main **Fire Alarm Controls** are enabled, and the following **System Controls** are accessible:



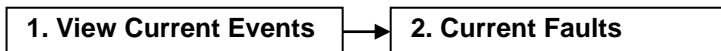
These are described below. Note that actual display indications may differ from those shown in the grey boxes below, depending on actual set up.



FIRE 001 OF 001
Z01: ZONE 01

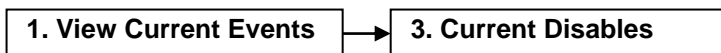
Press <> OR Esc Key

The Active Log will display any current fires. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.



FAULT 001 OF 001
Z00: NA
Batt – Low Vtg
Press <> OR Esc Key

The Active Log will display any current faults. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.



01/09/09 22:26 USER
01.REMOTE FIRE

Press <> OR Esc Key

The Active Log will display any current disables. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

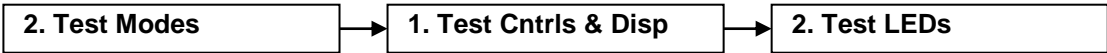


01/09/09 22:26 USER
 Press <> OR Esc Key

The Active Log will display any current warnings. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

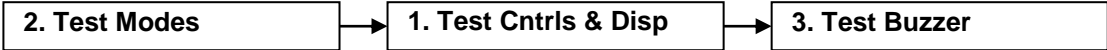


The Test Display function causes LCD screen to blacken each character space in sequence and the test LED to illuminate.



01/09/09 22:26 USER
 LEDs TESTING..
 LEDs ON
 Press Enter Key

The Test LEDs function causes the panel to toggle all the LEDs on/off and will illuminate to ensure correct operation. The test light will illuminate while this action is taken.



01/09/09 22:26 USER
 BUZZER TESTING..
 BUZZER ON
 Press Enter Key

The Test buzzer function toggles on and off to ensure correct buzzer operation. The test light will illuminate while this action is taken.

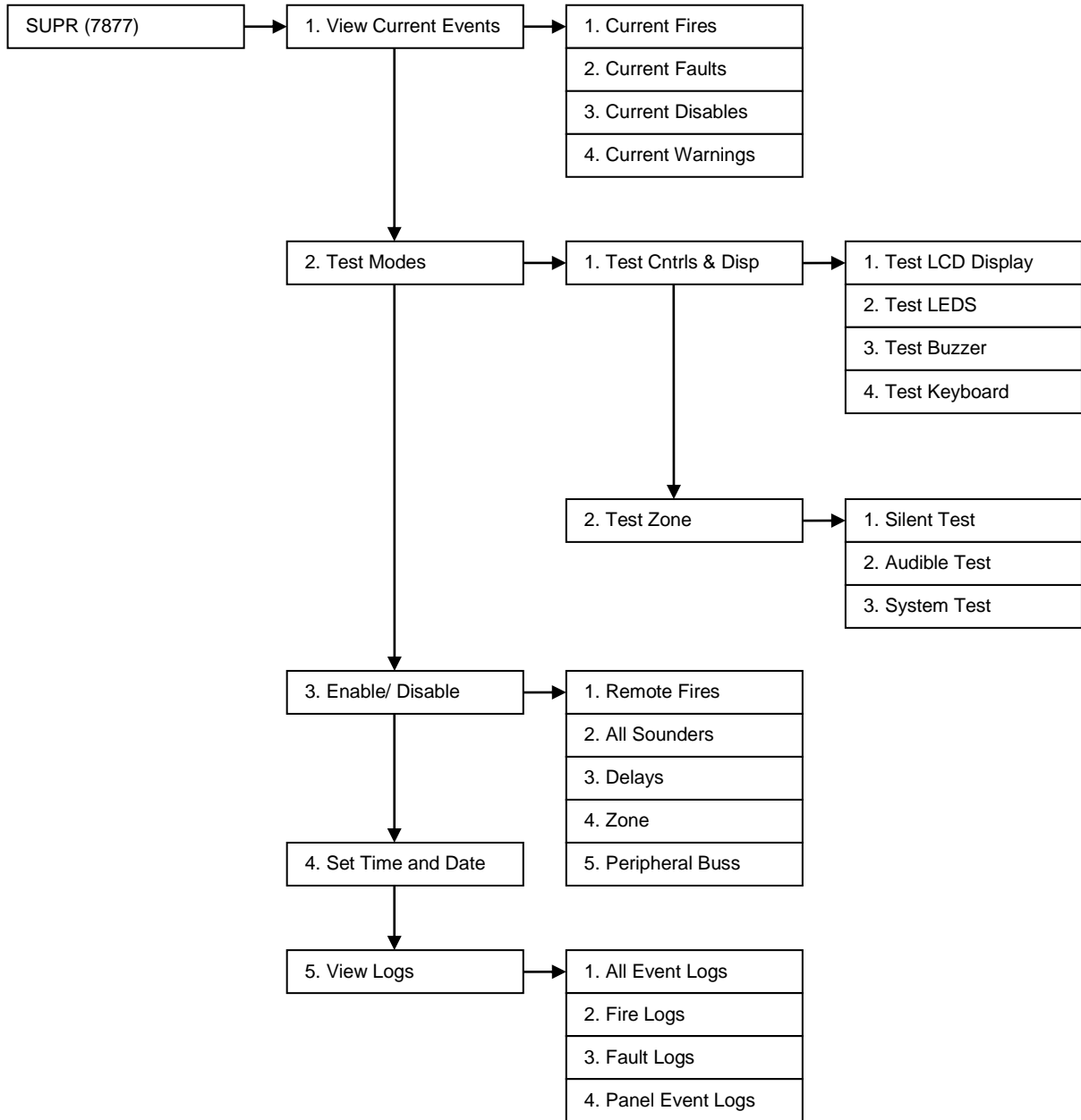


01/09/09 22:26 USER
 KEYBOARD TESTING..
 ENTER key PRESSED.
 Press Enter Key

The Test keyboard function enables the user to select each button to ensure the correct function is shown on the screen. Press the **ESC** key **TWICE** to exit the menu.

Access Level 2B (Supervisor): Controls Enabled LED flashing slowly

At Access Level 2B (Supervisor), the main **Fire Alarm Controls** are enabled, and the following **System Controls** are accessible



These are described below. Note that actual display indications may differ from those shown in the grey boxes below, depending on actual set up.

1. View Current Events

1. Current Fires

FIRE 001 OF 001
Z01: ZONE 01
Press <> OR Esc Key

The Active Log will display any current fires. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

1. View Current Events

2. Current Faults

FAULT 001 OF 001
Z00: NA
Batt – Low Vtg
Press <> OR Esc Key

The Active Log will display any current faults. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

1. View Current Events

3. Current Disables

01/09/09 22:26 SUPR
01.REMOTE FIRE
Press <> OR Esc Key

The Active Log will display any current disables. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

1. View Current Events

4. Current Warnings

01/09/09 22:26 SUPR
Press <> OR Esc Key

The Active Log will display any current warnings. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

2. Test Modes

1. Test Cntrls & Disp

1. Test LCD display

The Test Display function causes LCD screen to blacken and the test LED to illuminate.

2. Test Modes

1. Test Cntrls & Disp

2. Test LEDs

01/09/09 22:26 SUPR
LEDs TESTING..
LEDs ON
Press Enter Key

The Test LEDs function causes the panel LEDs to toggle on/off to test for correct operation, when this option is active the test light will be illuminated.



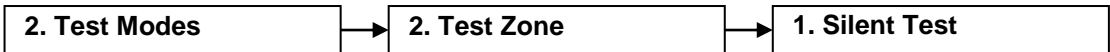
01/09/09 22:26 SUPR
BUZZER TESTING..
BUZZER ON
Press Enter Key

The Test buzzer function toggles on and off to ensure correct buzzer operation. The test light will illuminate while this action is taken.



01/09/09 22:26 SUPR
KEYBOARD TESTING..
ENTER key PRESSED.
Press Enter Key

The Test keyboard function enables the user to select each button to ensure the correct function is shown on the screen. Press the **ESC** key **TWICE** to exit the menu.

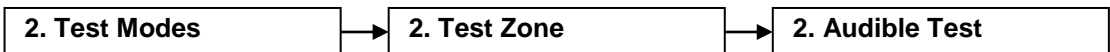


01/09/09 22:26 SUPR
SILENT TEST (ZONES).
ENTER ZONE:00
Press Enter Key

The Silent Test function allows the selection of one or more detection-zones to operate in a 'silent one-man walk test mode'. On triggering a device, the device LED operates, the sounder does not sound and the control panel indicates an alarm. After approximately 5 seconds the system will reset the device and another may be tested. The control panel event log will indicate that a test mode has been selected. This operation will also enable the test LED.

01/09/09 22:26 SUPR
TEST ZONE 01
1.START 2.END
Press <> OR Esc Key

N.B. To put ALL zones into test, enter 00 for the zone number.

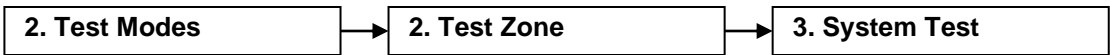


01/09/09 22:26 SUPR
AUDIBLE TEST (ZONES)
ENTER ZONE:00
Press Enter Key

The Local Audible Test function allows the selection of one or more detection-zones to operate in a 'one-man walk test mode with local sound'. On triggering a device, the device LED operates, the sounders within that zone operate and the control panel indicates an alarm. After approximately 5 seconds, the system will reset the device and another may be tested. The control panel event log will indicate that a test mode has been selected.

01/09/09 22:26 SUPR
TEST ALL ZONES
1.START 2.END
Press <> OR Esc Key

N.B. To put ALL zones into test enter 00 for the zone number.

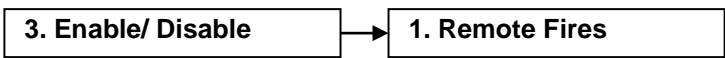


01/09/09 22:26 SUPR
SYSTEM TEST (ZONES)
ENTER ZONE:00
Press Enter Key

The System Test function allows the selection of one or more detection-zones to operate in a 'one-man walk test mode with local sound'. On triggering a device, the device LED operates, the sounders within that zone operate and the control panel indicates an alarm. After approximately 5 seconds, the system will reset the device and another may be tested. The control panel event log will indicate that a test mode has been selected.

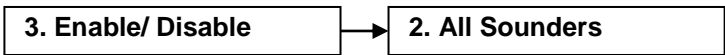
01/09/09 22:26 SUPR
TEST ALL ZONES
1.START 2.END
Press <> OR Esc Key

N.B. To put ALL zones into test enter 00 for the zone number.



01/09/09 22:26 SUPR
REMOTE FIRE:DISABLED
1.DISABLE 2.ENABLE
Press <> OR Esc Key

This function allows the global disablement or enablement of all fire outputs on the panel. The control panel will indicate that disablements are present and a disablement event will be recorded to log.



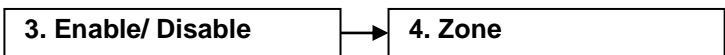
01/09/09 22:26 SUPR
SOUNDERS:DISABLED
1.DISABLE 2.ENABLE
Press <> OR Esc Key

This function allows the global disablement or enablement of all the sounders on the system. The control panel will indicate that disablements are present and a disablement event will be recorded to log.



01/09/09 22:26 SUPR
DELAYS: ENABLED
1.DISABLE 2.ENABLE
Press <> or Esc Key

This function allows the delays to be temporarily turned off (i.e. set to 0 time delay).



01/09/09 22:26 SUPR
ZONE(ENABLE/DISABLE)
ENTER ZONE:00
Press Enter Key

This function allows the disablement or enablement of a detection-zone. Thus, all the input devices (Manual Call Points, detectors and inputs) within that detection-zone will be disabled. The control panel will indicate that disablements are present, a disablement event will be recorded to log, the device LED will still operate when activated and an event will be recorded to log, but no programmed actions will occur. The sounder within the device will still operate if triggered from elsewhere on the system.

01/09/09 22:26 SUPR
ZONE: ENABLED
1.DISABLE 2.ENABLE
Press <> OR Esc Key

3. Enable/ Disable

5. Peripheral Buss

01/09/09 22:26 SUPR
 PERIPH BUSS: OFF
 1. OFF 2. ON
 Press <> OR Esc Key

This allows the Peripheral Buss to be switched on or off.
Note: Ancillary equipment e.g. repeaters connected to the peripheral bus do not meet EN 54-2 requirements.

4. Set Time and Date

01/09/09 22:26 SUPR
 DATE: 01/09/09
 TIME: 22:36:00
 Press Enter Key

This allows the time and date to be adjusted. Use the **UP** and **DOWN** keys to move the cursor between options and the alphanumeric keypad to enter the code. Press the **ENTER** key to confirm the change.
 Note that this system will not keep time with BST/Daylight saving but will change date with leap years.

5. View Logs

1. All Event Logs

EVT 069 OF 069
 Z00: NA
 Engineer Mode
 01/09/09 22:26:01

The Event Log stores 500 fire, fault and system events which may be displayed in entirety, or displayed by category. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

5. View Logs

2. Fire Logs

EVT 014 OF 014
 Z01:
 Heat/Smoke
 01/09/09 22:28:01

The Fire Log will display a log of any fire conditions received by the panel. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

5. View Logs

3. Fault Logs

EVT 012 OF 012
 Z01:
 EOL Missing
 01/09/09 22:26:01

The Fault Log will display a log of any fault conditions received by the panel. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

5. View Logs

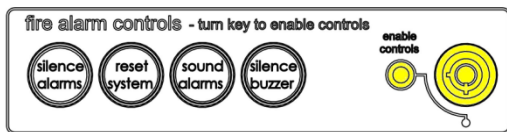
4. Panel Event Logs

EVT 069 OF 069
 Z00: NA
 Engineer Mode
 01/09/09 22:26:01

The Panel Event Log will display a log of events generated from the panel. These are displayed in text format and may be scrolled through by pressing the **UP** and **DOWN** keys. Press the **ESC** key to exit the menu.

FIRE ALARM SYSTEM NOTICE

To Enable the Control Panel Keys



You may gain access to the fire alarm controls by inserting the key turning ¼ turn or by entering the USER code (default 8737). The 'Controls Enabled' LED should then be illuminated. If after entering the code further action is not taken the 'Controls Enabled' light will time out eventually.

To disable the control panel keys turn the key switch off.

When disabled the 'Controls Enabled' LED should then be extinguished.

If a code was used, press 'ESC' enough times to return to normal operation (NORM in top left corner of display).

To prevent unauthorised operation the controls should be kept disabled and the key/codes kept secure under the control of the responsible person.

To Manually Operate the Fire Alarm Sounders



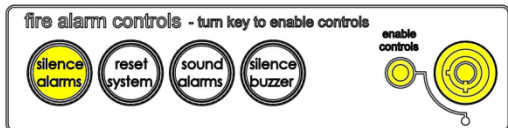
Enable the controls and then press 'SOUND ALARMS'.

To silence the alarm sounders press 'SILENCE ALARMS'.

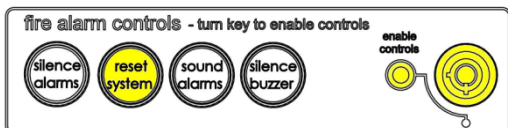
Following a Fire Alarm Operation



The red 'FIRE' LEDs will illuminate, the fire alarms and the internal buzzer will operate as programmed. Take appropriate action as defined by the emergency plan for the premises.



To silence the alarm press 'SILENCE ALARMS', then establish the cause of the alarm and enter the details in the log book.



Reset any Manual Call Points which may have been operated, or if a detector has been operated be sure that the cause of the alarm has been removed, before resetting the system by pressing 'RESET SYSTEM'.

Following a Fault Condition



The appropriate fault LEDs will illuminate. The internal buzzer will sound. To mute the internal buzzer press 'SILENCE BUZZER'. Investigate and rectify the appropriate fault (competent persons). Once the fault has been rectified the fault indication will clear automatically.



Important Notes

FIRE ALARM COMPANY:

ADDRESS:

FOR SERVICE CALL:

(Working hours)

(Call Out)

FIRE ALARM USER NOTICE

Note

The Fire alarm system installed in this building may have 'Alarm Confirmation' technology to help eliminate false alarms.

Please read and understand the following information in order to make the most use of the system.

Operation

When the detector within your area activates it will initially only operate the sounders within your own area for a predetermined 'Confirmation' time. This time is given below.

At the end of the 'Confirmation' time the system will check the detector again to see if the activation has cleared. If so then the sounders will silence and no further action need be taken.

If, however, the detector is still activated then the entire system will go into alarm, operating all the sounders on the system.

Action Required

If you think that you may have accidentally set off the fire alarms then check the following:

If the fire alarm within your area only is sounding, then check your own area for the cause of the alarm. If this proves to be a false alarm due to dust, cooking fumes, steam, cigarette smoke, etc, then clear the smoke/steam from the area in order to allow the system to reset itself after a few minutes. If this happens then no further action is required. If the sounders in the communal areas are also sounding, then follow the buildings fire regulations for evacuation.

If you discover a genuine fire, then follow the buildings fire procedures for evacuation, activating the nearest Fire Alarm manual call point on the way out if the alarms are not yet sounding.

Do not attempt to put out the fire unless it is safe to do so.

Further Information

Further information will be located adjacent to the Main Fire Alarm Control Panel, or may be obtained from either the person responsible for building maintenance or from the Fire Alarm Company responsible for maintaining the Fire Alarm System.

Alarm Confirmation time :Minutes

APARTMENT NOTICE FOR SYSTEMS USING ALARM CONFIRMATION

Installation Details

This section should be completed by the commissioning engineer at handover.

Name of Responsible Person:

Name and Address of Installation:

.....

Ref. No. (if applicable):

Date of Handover:

Name and Address of Installer:

.....

Tel: Fax:

Equipment:

Control Panel: TWINFLEX®pro² V: Serial No.:

No. of Zones used: Mains Supply:

	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>	<u>Zone 4</u>	<u>Zone 5</u>	<u>Zone 6</u>	<u>Zone 7</u>	<u>Zone 8</u>
Total No. of Devices:								
No. of Detectors:								
No. of Call Points:								
No. of Sounders:								
No. of I/O Interfaces:								

Access Level 2A (User) code: (Default – USER)

Access Level 2B (Supervisor) code: (Default – SUPR)

Test Certificate number :

In an emergency call:

Normal Hours: Out of Hours: