

Firetrax Professional

Conventional Fire Control Panel



User manual & Log Book

Ventcroft Ltd
VFT-P 1/2/4/6/8 Conventional Fire Alarm Control Panel User manual & Log Book

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1.0 Overview: A Fire alarm system.

An automatic fire alarm system is typically made up of a fire alarm control panel, smoke detectors, heat detectors, call points and audible warning devices; the purpose of this system is to provide early warning of a developing fire so that people and animals can be evacuated and action can be taken to stop the fire as soon as possible. However, a fire system does not assure protection against property damage or loss of life resulting from a fire.

2.0 User Responsibilities

Section 7 of BS 5839-1:2002 Code of practice for system design, installation, commissioning and maintenance, states that the owner or person having control of the premises should appoint a single, named responsible person to supervise all matters pertaining to the fire alarm system. This person should ensure that the system is tested and maintained in accordance with the recommendations of BS 5839-1:2002, that appropriate records are kept and that the relevant occupants in the protected premises are aware of their roles and responsibilities in connection with the fire alarm system. It also needs to be the duty of the responsible person to ensure that necessary steps are taken to avoid situations that are detrimental to the standard of protection afforded by the system and to ensure that the level of false alarms is minimised.

Recommendations for the responsible person:

- a) To supervise all matters pertaining to the fire alarm system, and should have sufficient authority to carry out the duties listed below and should normally be the keeper of the documentation regarding the fire alarm system.
- b) Ensure the system is checked at least once every 24 hours to confirm that there are no faults on the system.
- c) Ensure that arrangements are in place for testing and maintenance of the system in accordance with BS 5839-1:2002 section 6
- d) Ensure that the system log book is kept up to date and is available for inspection by any authorised person.
- e) Ensure that all relevant occupants of the protected premises are instructed in the proper use of the system and are able to interpret fire, pre-alarm and fault indicators and they are adequately familiar with the appropriate controls. It should also be ensured that the occupants are aware of the measures necessary to avoid the generation of false alarms. Relevant occupants should also be instructed in the facilities for disablement and the circumstances in which they should and should not, be used. In premises in multiple occupation, it should be ensured that sufficient representatives of each occupier are instructed.
NOTE: Different levels of instruction might be necessary for different occupants
- f) To ensure appropriate action is taken to reduce false alarms.
- g) Ensure clear space around every fire detector (500mm) and manual call points remain unobstructed.
- h) Ensure communication between those responsible for building maintenance to ensure that work does not unnecessarily compromise the protection afforded by the system, create system faults or cause false alarms. If structural or occupancy changes occur or are planned ensure that any necessary changes to the fire alarm system are considered at an early stage.
- i) Ensure drawings and operating instructions are up to date.
- j) To ensure that the following spare parts are held within the premises:-
 - a. Six frangible elements and appropriate tools for manual call points, unless there are less than 12 manual call points then only 2 frangible elements and tools need to be held.
 - b. Such other spare parts agreed between the user and the organisation responsible for servicing the system.

Routine Tests.

Daily

- Check that the power led is lit (*Green*)
- Report any faults to the responsible person

Weekly test (*You may wish to disable the Fire Output during some of these tests*)

- Led lamp and internal buzzer test.
- A manual call point should be operated during normal working hours, confirm that the control equipment is capable of processing a fire alarm signal and providing the correct outputs.
Note 1: It is essential that alarm receiving centre is contacted immediately before and immediately after the test to ensure that unwanted alarms are avoided.
Note 2: The user needs to take into account manufacturer's recommendations.
- Weekly test should be carried out at approximately the same time each week; instructions to occupants to report any instance of poor audibility of the fire alarm signal.
- In premises in which some employees only work hours other than that at which the fire alarm system is normally tested, an additional test(s) should be carried out at least once per month to ensure familiarity of these employees with the fire alarm signal(s)
- A different manual call point should be tested every week, so that all manual call points are tested in rotation. The result of the weekly test and identity of the manual call point should be recorded in the log book.
- The duration for which any fire alarm signal is given at the time of the weekly test by the user should not normally exceed one minute, so that, in the event of a fire at the time of the weekly test, occupants will be warned by the prolonged operation of the fire alarm devices.
- Voice alarm systems should be tested weekly in accordance with the recommendations of BS 5839-9:2002

Recommendations for periodic Inspection and Test

The recommended period between successive inspection and servicing visits should not exceed six months. If a risk assessment shows a need for more frequent inspection and servicing visits, then all interested parties should agree the appropriate inspection and servicing schedule.

- The system log should be examined. It should be ensured that any faults recorded have received the appropriate action.
- A visual inspection should be made to check whether structural or occupancy changes have affected the compliance of the system.
- False alarm records should be checked, and the rate of false alarms during the previous 12 months recorded. Action taken in respect to false alarms should be recorded.
- Standby batteries should be disconnected and a full load alarm should be simulated.
- Batteries and their connections should be examined and momentarily load tested (Other than devices of a radio-linked system), to ensure that they are in good serviceable condition and not likely to fail before the next service visit.
- The fire alarm functions of the control and indicating equipment should be checked by the operation of at least one detector or manual call point on each circuit. An entry should be made in the log book indicating which initiating devices have been used for these tests.
- The operation of the fire alarm devices should be checked.
- All controls and visual indications at the control and indicating equipment should be checked for correct operation.
- The operation of any facility for automatic transmission of alarm signals to an alarm receiving centre should be checked
- All ancillary functions of the control and indication equipment should be tested.

- All fault indicators and their circuits should be checked, where practicable, by simulation of fault conditions.
- All printers should be tested to ensure correct operation and characters are legible. It should be ensured that all printer consumables are sufficient quantity or condition to ensure that the printer can be expected to operate until the time of the next service visit.
- Radio systems should be service in accordance with manufactures recommendations.
- All further checks and tests recommended by the manufacturer of the control and indicating equipment and other components of the system should be carried out.
- On completion of the work, any outstanding defects should be reported to the responsible person, the system log should be completed and a servicing certificate should be issued.

Recommendations for inspection and test of the system over a 12 month period

In addition to the work recommended above, it is recommended the following work be carried out every year.

Note: *The work described may be carried out over the course of two or more service visits*

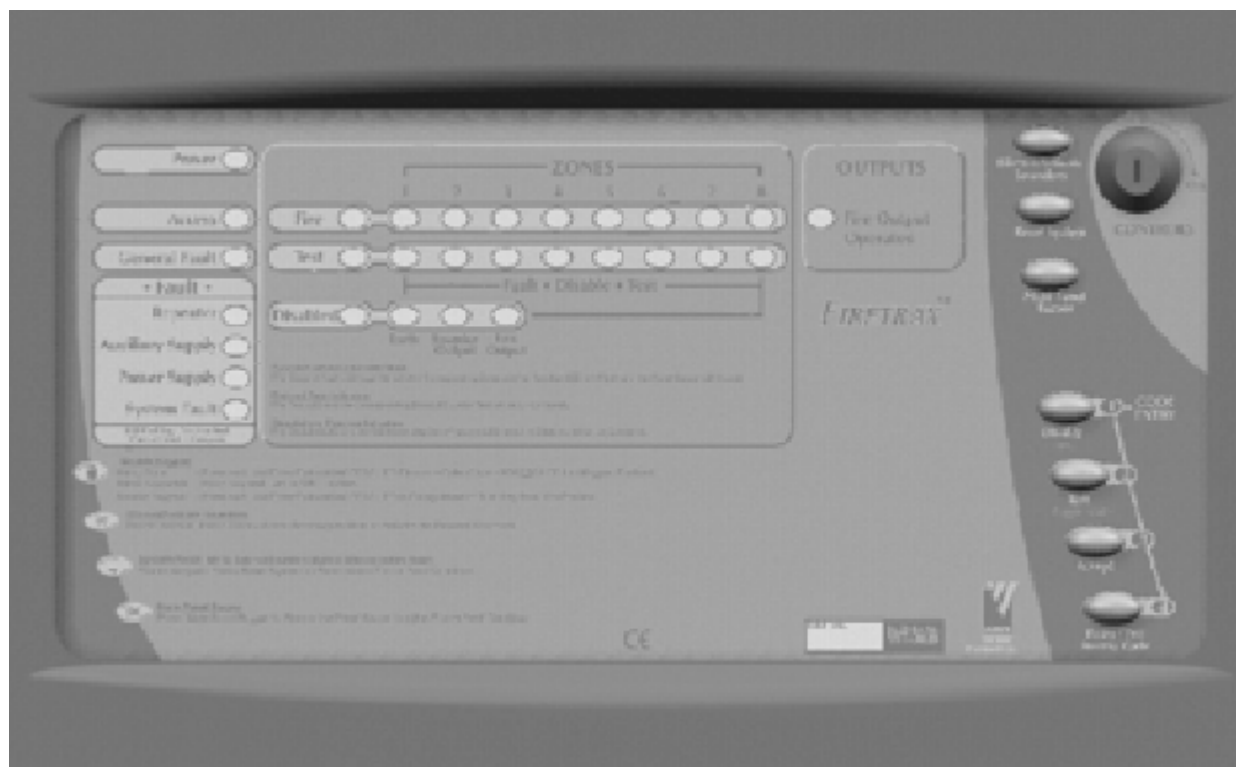
- The switch mechanism of every manual call point should be tested, either by removal of a frangible element, insertion of a test key or operation of the device as it would be operated in the event of a fire.
- All automatic detectors should be examined, as far as practicable, to ensure that they have not been damaged, painted, or otherwise adversely affected. Therefore the detectors should be functionally tested.

Note: *The test should simulate the correct operation of the device, use of a test button or test magnet (for example) does not satisfy the recommendation given.*

- In fire detection systems that enable analogue values to be determined at the control and indicating equipment, it should be confirmed that each analogue value is within the range specified by the manufacturer.
- All fire alarm devices should be checked for correct operation. It should be confirmed that visual fire alarm devices are not obstructed from view and their lenses are clean.
- All unmonitored, permanently illuminated filament lamp indicators at control and indicating equipment should be replaced.
- Radio signal strengths in radio-linked systems should be checked for adequacy.
- A visual inspection should be made to confirm that all readily accessible cable fixings are secure and undamaged.
- The cause and effect programme should be confirmed as being correct.
- The standby power supply capacity should be checked to establish it remains suitable for continued service.
- All further annual checks and tests recommended by the manufacturer of the control and indicating equipment and other components of the system should be carried out.

On completion of the work, any outstanding defects should be reported to the responsible person and a record of the inspection and test should be made on the servicing certificate.

3.0 Panel Layout



3.1 Front mounted LED Descriptions

The Professional Fire Panel has various status LED's to provide user feedback on the status of the fire panel. The Green LED is relating to the condition of the power supply, Red LED's so if the fire panel is in a fire condition and the Yellow LED's show Fault, Test or Disablement.

3.1.1 LED Descriptions

	LED	Colour	Description
FIRE	Power	Green	Status of the power supply
	Access	Yellow	Code Entry/ Access Level 2 Granted
	Fire	Red	Fire Detected on one of the zones
	Zones(1-8)	Red	Zone in Fire
	Fire Output	Red	Fire Output operated
FAULT/TEST/DISABLED	General Fault	Yellow	Fault Detected on one of the features below
	Repeater	Yellow	Communication Lost with repeater panel, or in setup mode
	Auxiliary Supply	Yellow	Auxiliary supply fault
	Power Supply	Yellow	Power Supply fault, 24V, 16V, 13.8V, 5V, Battery or Mains Supply
	System Fault	Yellow	System Fault detected. System or Site data corrupt
	Zones (1-8)	Yellow	Zone in Fault, Test or Disabled or currently being set-up
	Test	Yellow	A zone has been put in Test or currently being set-up
	Disabled	Yellow	A zone has been Disabled or currently being set-up
	Earth	Yellow	Earth fault has been detected or Disabled or currently being set-up
	Alarm	Yellow	Sounders fault detected or Sounders Disabled or currently being set-up
Fire Output	Yellow	Fire Output Fault detected or the Output Disabled or currently being set-up	

3.2 External Controls

There are several buttons which control the operation of the fire panel on the front of the fire panel case. These controls are available from various levels: Level 1 or Level 2 (User Access)

3.2.1 Button Descriptions

Button	Description
Silence/Activate Sounders	Silence/ Activate the Sounders. (Level 2)
Mute Panel Buzzer	Mute the internal buzzer in either fire or quiescent mode and in any access level.
Reset System	This key will reset the fire panel from either a fire or a fault condition. (Level 2)
Disable/Next/1	Enter Disablements mode/Scroll through options/Code Entry
Test/Toggle/2	Test Display or Enter Test mode/Toggle feature/Code Entry
Accept/3	Accept feature/Code Entry
Code/Exit/4	Initiate Code entry/Exit out of Option/Code Entry
Keyswitch	Keyswitch to Enable Access Level 2 (Optional)

4.0 Using the Fire Panel

There are two levels of access control on the Firetrax professional range of fire panels; these are General user and Authorised User both of which have various functions available.

4.1 General User (Access Level 1)

Access level 1 is available to members of the general public, or persons having a general responsibility for safety supervision, who might be expected to investigate and initially respond to a fire alarm or a fault warning. Any fire, fault, test or disablements are clearly shown on the led display (see 3.1.2)

The only control functions available at Access Level 1 are:-

- Led Lamp and panel buzzer test
- Muting the panel's internal buzzer
- Accessing Level 2

4.1.1 Led Lamp and panel buzzer test

To test the panel's Led display and the internal panel buzzer press the **TEST_{/toggle/2}** button, all of the panel's LED's should illuminate and the internal buzzer should sound. If any of the LED's fail to light or the buzzer fails to sound please contact your maintenance company. (See 5.0 Fault Finding)

4.1.2 Muting the panel's internal buzzer

During a fire or fault condition the fire control panel's internal buzzer will sound, this may be muted by pressing the **Mute Panel Buzzer** button which will silence the internal buzzer. This buzzer will resound upon the detection of another fire or fault condition.

4.1.3 Accessing Level 2

To gain access to the Authorised User controls (Access Level 2), press the **Code/Exit/4** button until the Access LED starts to flash you may then enter the user code to gain access to level 2 controls.

4.2 Authorised User (Access Level 2)

Access Level 2 is available only to authorised users of the fire control panel, who are responsible for safety and who are trained to operate the control panel in the following conditions:-

- a) Quiescent condition
- b) Fire alarm condition
- c) Fault warning condition
- d) Disabled condition

An access code (or keyswitch if fitted) is required to gain access to level 2; this is to prevent unauthorised changes to critical parts of the fire alarm system.

4.2.1 Accessing Level 2 (keypad)

To gain access to the Authorised User controls (Access Level 2), press the **Code/Exit/4** button until the Access LED starts to flash you may then enter the user code **2 1 4 3** the access led will then constant indicating that level 2 access has been granted.

4.2.2 Accessing Level 2 (Keyswitch)

If the keyswitch option has been fitted you can gain access to level 2 by inserting and turning the keyswitch a quarter turn clockwise. The access led should go constant to indicate level 2 access is granted.

4.2.3 Exiting Access Level 2 (Keypad)

To exit Level 2, you can press the **Code/Exit/4** button at any time to exit out of the function that you are currently in and then finally out of Access Level 2 completely.

4.2.4 Exiting Access Level 2 (Keyswitch)

Turn the keyswitch a quarter turn anti-clockwise at anytime to exit out of user access level 2.

4.2.5 Silence/Activate Sounders

This button can be used to toggle the sounder outputs from Off to On and vice versa.

4.2.5.1 During Quiescent Condition.

Pressing the **Silence/Activate Sounders** button will cause the alarm sounders to sound; this will not cause the fire output to operate. Pressing the **Silence/Activate Sounders** button again will cause the alarm sounders to silence. This option can be used for fire drill's or testing the sounders.

NOTE: *If the sounders have been disabled (See 4.2.8) pressing this button will have no affect.*

4.2.5.2 During Fire Condition.

In a fire condition the alarm sounders may be silenced by pressing the **Silence/Activate Sounders** button. The fire output will remain regardless of the condition of the alarm outputs. Upon the detection of any subsequent fire conditions the alarms sounders will resound.

4.2.6 Mute Panel Buzzer

During a fire or fault condition the fire control panel's internal buzzer will sound, this may be muted by pressing the **Mute Panel Buzzer** button which will silence the internal buzzer. This buzzer will resound upon the detection of another fire or fault condition.

4.2.7 Reset System

Once the cause of a fire or fault condition had been investigated and cleared and the alarm sounders have been silenced (During a fire condition) the fire control panel may be reset by pressing the **Reset System** button. This will cause the system to be reset; all the Led's will illuminate and the panel buzzer will sound, after a few seconds the system will restart.

NOTE: *If there are still any zones in fire or fault condition or any outputs still in fault the panel will go back into the alarm state as before the system reset.*

4.2.8 Disablements

Zones and certain control panel functions can be temporarily disabled; this may be due to routine test on the system or if conditions in certain areas may cause false alarms.

The following features and functions may be disabled:-

Function	Action taken by fire panel.
Zones	Fire and Fault conditions will not be processed
Earth	Earth faults will be ignored.
Alarm	Alarm sounders will not activate in any condition
Fire Output	Fire conditions will not be transmitted to external equipment

4.2.8.1 To Disable or re-enable any of the above functions

- Press and hold the **Disable/Next/1** button until the Disablement Led lights.
- Release the button. Zone 1 Fault Led will flash. (See **4.3 Led flash patterns**)
- Press the **Disable/Next/1** button to scroll to the next available zone or feature.
- Press the **Test/Toggle/2** button to toggle the state of the Zone/feature as required (Disabled/Enabled).
- Once the correct state for the feature is selected press the **Accept/3** button to confirm the selection.
- Press the **Disable/Next/1** button to scroll through the rest of the zones/features that can be enabled/disabled, using the **Test/Toggle/2** and **Accept/3** buttons were necessary to enable/disable zones or features.
- Repeat this procedure until all required zones/features are enabled/disabled.
- To return to access level 1 press the **Code/Exit/4** button, turn the keyswitch anticlockwise or press the **Panel Reset** button.

Note: *Once in access level 2 you may enter the Disablements option at anytime by pressing and holding the **Disable/Next/1** button until the disablement LED is lit.*

4.2.9 Test Zones

Zones may be placed in a test mode in order to perform routine maintenance or to aid commissioning. This converts the zone to non-latching “One man walk test” mode.

Note: *It is recommended that on an already installed and commissioned fire alarm system that only one zone be put in test mode at any one time.*

- During this mode when a smoke detector or manual call point is activated the alarm sounders will sound an activated signal (1 second ring).
- The system will then try to reset the zone.
- If the alarm condition is removed (i.e. the smoke detector’s chamber clears of test smoke or the manual call point is reset) then the system alarms will sound an all clear signal (2 one second rings with a one second gap between on the alarm sounders.)
- You may then continue to test further detectors or manual call points in that zone or on other zones in test.
- If when the system resets the activated test zone and the fire condition continues the system will try to reset the zone a further five times; if the alarm signal is not removed from the zone the panel will then sound a fault signal (5 one second rings with a one second gap in between.)
- The fire panel will continue to try to reset the zone in test; if the zone is still in a fire condition it will continue to give the fault signal.
- If the fault cannot be rectified the zone must be disabled (see **4.2.8**) before you can continue to test any further zones in test mode.

4.2.9.1 To place any zone into Test.

- Press and hold the **Test**_{/Toggle/2} button until the test Led lights.
- Release the button. Zone 1 Fault Led will flash. (See **4.3 Led flash patterns**)
- Press the **Disable**_{/Next/1} button to scroll to the next available zone or feature or
- Press the **Test**_{/Toggle/2} button to toggle the state of Zone 1 as required (Disabled/Enabled).
- Once the correct state for the feature is selected press the **Accept**_{/3} button to confirm the selection.
- Press the **Disable**_{/Next/1} button to scroll through the available features that can be disabled, using the **Test**_{/Toggle/2} and **Accept**_{/3} buttons were necessary to enable/disable zones or features.
- Repeat this procedure until all zones/features are enabled/disabled.
- To return to access level 1 press the **Code**_{/Exit/4} button, turn the keyswitch anticlockwise or press the **Panel Reset** button.

Note: *Once in access level 2 you may enter the Test option at anytime by pressing and holding the **Test**_{/Toggle/2} button until the test LED is lit.*

4.3 Led Flash Patterns (Yellow LED's).

Flash Type	Description	Result
OFF	OFF	Feature/Zone enabled
ON	ON	Feature/Zone Disabled
Flash	1 ON / 1 OFF	FAULT Detected.
Slow Flash	7 ON / 1 OFF	Cursor position. This flash pattern shows that the feature under the cursor is enabled.
Fast Flash	1 ON / 7 OFF	Cursor position. This flash pattern shows that the feature under the cursor is disabled.

5.0 Fault Conditions

When the system detects a fault condition, both the General Fault LED and the detected fault LED will flash and the internal buzzer will sound. The internal buzzer can be muted at either access level (1 or 2) by pressing the mute panel buzzer button (see 4.1.2 or 4.2.6)

5.1 Types of Fault

The fire alarm control panel can detect and report several different type of fault as described below:-

5.1.1 Zone Fault

When the system detects a wiring problem either an open/short circuit or if a detector head has been removed from its base; the corresponding zone fault led will flash.

Note: *Dependant upon the fault and the type of system installation, alarms raised upon a faulty zone my not be recognised on the fire alarm panel until the fault is resolved.*

5.1.2 Repeater Fault

If the connection between the fire control panel and one or more of the repeater panels is lost or fails will cause the repeater LED to flash.

Note: *Dependant upon the fault and the type of system installation some or all of the repeaters may no longer operate correctly.*

5.1.3 Earth Fault

This fault will occur when a connection is made between earth and one of the transmission paths to the fire control panel.

5.1.4 Alarm Fault

When the fire control panel detects a wiring fault or sounder short on either of the sounder circuits during quiescent or alarm condition will cause the alarm fault LED to flash.

Note: Dependant upon the fault and the type of system installation some or all of the fire alarm sounders fail to operate during an alarm condition.

5.1.5 Fire Output Fault

This Led illuminates when either an open or short circuit is detected on the Fire Output cabling or devices connected to the terminals.

5.1.6 Aux Supply Fault

This Led illuminates when either too much current is drawn or the auxiliary supply is shorted out.

5.1.7 Power supply Fault

The Power supply fault Led illuminates when there is a fault on the battery charge circuit, 24/28V supply, 16V supply, 13.8V supply, or the 5v supply or when the battery or mains is removed.

5.1.8 System Fault

The system fault illuminates when there is one of the following faults: - Watchdog timeout, Site or program memory has become corrupted, or there is a fault on the fire control panel circuit board.

5.2 In the Event of a Fault

- Mute the panel's internal buzzer by pressing the mute panel buzzer (see **4.1.2** or **4.2.6**), this may be done from either access level 1 or 2.
- Record the fault(s) in the Log Book (see **Appendix B3: Log Book-False Alarms**) and take appropriate action to correct the fault(s).
- Reset the system. If all the faults are cleared the general fault and the fault condition will be cleared, if the fault has not been cleared both the general fault LED and the fault condition LED will reappear as before and the above process will have to be repeated.

5.3 Fault Finding

When a fault is detected there are several simple tests that the responsible person can carry out to resolve the fault before calling the maintenance company.

5.3.1 Fault Finding Chart

Fault Indication	Possible Cause	Corrective Action
Zone Fault	<ul style="list-style-type: none"> • Detector head removed • Cable Open/Short circuit • EOL Device missing 	Check the zone looking for any detector heads that have been removed or incorrectly fitted, Refit or reseal the detector head. Check for any damage on the cable run. Call the maintenance company.
Repeater Fault	<ul style="list-style-type: none"> • Damaged Cable • Bad connection • Faulty Repeater 	Check for any damage on the cable run. Call the maintenance company.
Earth Fault	<ul style="list-style-type: none"> • Damaged Cable • Bad connection 	Check for any damage on the cable run. Call the maintenance company.
Alarm Fault	<ul style="list-style-type: none"> • Damaged Cable • Bad connection • EOL Device missing • Too many devices on circuit 	Check for any damage on the cable run. Call the maintenance company.
Fire Output Fault	<ul style="list-style-type: none"> • Damaged Cable • Bad connection • EOL Device missing • Too many devices on circuit 	Check for any damage on the cable run. Call the maintenance company.
Aux Supply Fault	<ul style="list-style-type: none"> • Damaged Cable • Bad connection • Too many devices on circuit 	Check for any damage on the cable run. Call the maintenance company.
Power Supply Fault	<ul style="list-style-type: none"> • Mains Supply Failure • Back-up Battery Failure • Internal Control panel failure. 	Check incoming mains supply. Check isolating fuse Call maintenance company
System Fault	<ul style="list-style-type: none"> • Electrical Interference • Corrupt system memory 	Reset Fire Control System Reprogram Site configuration Call maintenance company

6.0 Appendix

A1: System Configuration Data

Fire Zone Information	
Zone Number	Zone Description A concise explanation of areas and rooms contained in each zone
1	
2	
3	
4	
5	
6	
7	
8	

Fire Panel Input/Output Routing Information			
Type Of Input	Connected?		How is it connected?
Class Change	Yes	No	
Type Of Output	Connected?		What Happens When Activated?
Fire Output	Yes	No	
Relay Output	Yes	No	

Additional Information
Any additional information the user needs to know should be entered here; Repeater locations, additional outputs routing information, etc.

The information above was completed by:

Name (in block letters): _____ Position: _____

Signature: _____ Date: _____

For and on behalf of: _____

B1: Fire Alarm Log Book

Foreword

It is recommended that this log book be maintained by a responsible person, who should ensure that every entry is properly recorded. This is necessary to satisfy the recommendations of BS5839-1¹⁾, compliance with which may be a requirement of legislation. If your premises are certificated under the Fire Precautions Act 1971, failure to keep a suitable log book may be a breach of the requirements of the certificate, which is a criminal offence.

- The following must be recorded:-
- The name of the responsible person.
- Brief Details of the maintenance arrangements.
- Dates and times of all tests, including fire drills.
- Dates and times of all fires to which the system responds.
- Dates and times of all false alarms.
- Causes, circumstances surrounding, and category, of all false alarms (if known).
- The identity of any manual call point or automatic fire detector that triggers any of the above fire alarm signals (if known).
- Dates, times and types of all faults and defects.
- Dates and types of all maintenance (e.g. service visit or non-routine attention).

Site Data

Address of protected premises:

Company: _____
 Address 1: _____
 Address 2: _____
 Address 3: _____
 City: _____
 Post Code: _____

Responsible person: _____

The System was designed by: _____

The system was installed by: _____

The system was commissioned by: _____

The system was accepted by: _____

Verification was undertaken by: _____

The system is maintained under contract by: _____ until: _____,
 who should be contacted if maintenance is required.

Telephone number: _____, normal hours (Mon to Fri). _____, outside normal hours.

Manned Centre telephone number: _____, Manned Centre Code: _____

Normal maximum attendance time for a maintenance technician is: _____

Expendable component replacement periods (list):

Component:	Replacement Period:

¹⁾ BS 5839-1:2002 Fire detection and alarm systems for buildings – Code of practice for system design, installation, commissioning and maintenance.

C1: Design Certificate

Certificate of design for the fire alarm system at:

Company: _____
 Address: _____
 : _____
 : _____
 City: _____
 Post Code: _____

I/we being the competent person(s) responsible (as indicated by my/our signatures below) for the design of the fire alarm system, particulars of which are set out below, CERTIFY that the said design for which I/we have been responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1:2002 for the system Category described below, except for the variations, if any, stated in this certificate.

Name (in block letters): _____ Position: _____

Signature: _____ Date: _____

For and on behalf of: _____

Address: _____

_____ Postcode: _____

The extent of liability of the signatory is limited to the system below.

System Category (see BS 5839-1, Clause 5): _____

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1, Clause 7):

Extent of system covered by this certificate: _____

Brief description of areas protected (not applicable for Category M, L1 or P1 systems):

Measures incorporated to limit false alarms. Account has been taken of the guidance contained in Section 3 of BS 5839-1:2002 and, more specifically (tick as appropriate):

- The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.
- The system incorporates automatic fire detectors and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.
- An appropriate analogue system has been specified.
- An appropriate multi-sensor system has been specified.
- A time-related system has been specified. Details: _____

- Fire signals from automatic detectors initially in a staff alarm, which delays a general alarm/transmission of signals to an alarm receiving centre (delete as applicable) for _____ min.
- Appropriate guidance has been provided for the user to enable limitation of false alarms.
- Other measures as follows: _____

Installation and commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Section 4 and Section 5 of BS 5839-1:2002 respectively.

Soak test

- In accordance with the recommendations of **35.2.6** of BS 5839-1:2002, it is recommended that, following commissioning, a soak period of _____ should follow.
(Enter a period of not less than one week.)
- As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1:2002

Verification

Verification that the system complies with BS 5839-1:2002 should be carried out, on completion, in accordance with clause **43** BS 5839-1:2002:

Yes No To be decided by the purchaser or user

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1:2002.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1:2002

D1: Installation Certificate

Certificate of installation for the fire alarm system at:

Company: _____

Address: _____

: _____

: _____

City: _____

Post Code: _____

I/we being the competent person(s) responsible (as indicated by my/our signatures below) for the installation of the fire alarm system, particulars of which are set out below, CERTIFY that the said installation for which I/we have been responsible complies to the best of my/our knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2002, except for the variations, if any, stated in this certificate.

Name (in block letters): _____ Position: _____

Signature: _____ Date: _____

For and on behalf of: _____

_____ Postcode: _____

The extent of installation work covered by this certificate

Specification against which system was installed:

Variations from the specification and/or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

Wiring has been tested in accordance with the recommendations of Clause **38** of BS 5839-1:2002.

Test results have been recorded and provided to: _____

Unless supplied by others, the "as fitted" drawings have been supplied to the person responsible for commissioning the system (see **36.2** of BS 5839-1:2002).

E1: Commissioning Certificate.

Certificate of commissioning for the fire alarm system at:

Company: _____

Address: _____

: _____

: _____

City: _____

Post Code: _____

I/we being the competent person(s) responsible (as indicated by my/our signatures below) for the commissioning of the fire alarm system, particulars of which are set out below, CERTIFY that the said work for which I/we have been responsible complies to the best of my/our knowledge and belief with the recommendations of Clause **39** of BS 5839-1:2002, except for the variations, if any, stated in this certificate.

Name (in block letters): _____ Position: _____

Signature: _____ Date: _____

For and on behalf of: _____

_____ Postcode: _____

The extent of liability of the signatory is limited to the systems described below.

Extent of system covered by this certificate

Variations from the recommendations of Clause **39** of BS 5839-1:2002 (see BS 5839-1, Clause **7**):

- All equipment operates correctly.
- Installation work is, as far as can reasonably be ascertained, of an acceptable standard.
- The entire system has been inspected and tested in accordance with the recommendations of **39.2c** of BS 5839-1:2002.
- The system performs as required by the specification prepared by:

_____ A copy of which I/we have been given.

- Taking into account the guidance contained in Section 3 of BS 5839-1:2002, I/we have not identified any obvious potential for an unacceptable rate of false alarms.
- This documentation described in clause **40** of BS 5839-1:2002 has been provided to the user.

The following work should be completed before/after (delete as applicable) the system becomes operational:

The following potential causes of false alarms should be considered at the time of the next service visit:

Before the system becomes operational, it should be soak tested in accordance with the recommendations of **35.2.6** of BS 5839-1:2002 for a period of: _____ (Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory to this certificate, whichever is the greatest, or delete if not applicable.)

F1: Acceptance Certificate

Certificate of acceptance for the fire alarm system at:

Company: _____
 Address: _____
 : _____
 : _____
 City: _____
 Post Code: _____

I/we being the competent person(s) responsible (as indicated by my/our signatures below) for the acceptance of the fire alarm system, particulars of which are set out below, ACCEPT the system on behalf of:

Name (in block letters): _____ Position: _____

Signature: _____ Date: _____

For and on behalf of: _____

_____ Postcode: _____

The extent of liability of the signatory is limited to the system below.

Extent of the system covered by this certificate

- All installation work appears to be satisfactory.
- The system is capable of giving a fire alarm signal.
- The facility for remote transmission of alarms to an alarm receiving centre operates correctly.
(Delete if not applicable.)

The following documents have been provided to the purchaser or user:

- 'As fitted' drawings.
- Operating and maintenance instructions
- Certificates of design, installation and commissioning.
- A log book.
- Sufficient representatives of the user have been properly instructed in the use of the system, including, at least, all means of triggering fire signals, silencing and resetting the system and avoidance of false alarms.
- All relevant tests, defined in the purchasing specification, have been witnessed.
(Delete if not applicable.)

The following work is required before the system can be accepted:

