

SmartWire

Intelligent 2 Wire Fire Detection System with 'ID' Technology



USER MANUAL, MAINTENANCE GUIDE & LOG BOOK



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WHAT TO DO IF THE FIRE ALARM PANEL SHOWS AN ALARM (RED LED)

Write down the LCD reading and which LEDs are lit (either in the log book, or on a piece of paper for transferring to the log book later)

Follow the building procedures for fire alarm activation.

When the building has been evacuated, the sounders can be silenced by entering access code 123 and pressing the Stop Sounder button, then pressing the Silence Buzzer button. (Note that the sounders may take up to 8 seconds to stop)

If there is no sign of fire, investigate the area that reported the fire CAREFULLY. Check for a detector with its LED on, or SOUNDER BASE STROBE LIGHT flashing or a call point with its RED LED lit.

If a detector caused the alarm, look for any innocent phenomena that could have activated it (Steam, cooking food, exhaust smoke, excessive dust etc can all activate a smoke detector.).
If anything is found, try to clear the room by opening a window.

If a fire is discovered, call the fire brigade.

To reset the panel press the reset button.

If the panel goes back into alarm, silence the sounders and call the engineer.

WHAT TO DO IF THE FIRE ALARM PANEL SHOWS A FAULT (YELLOW LED)

Write down the LCD reading and which LEDs are lit (either in the log book, or on a piece of paper for transferring to the log book later)

All fault indications will need the service engineer's attention. Call the engineer as soon as possible. Note that when the alarm is in a fault condition, the majority of the system may still function correctly. Extra vigilance should be paid in the area with the fault. The alarm may not be operational in this area.

The panel's internal buzzer can be silenced by entering access code 123 and pressing the Silence buzzer button. If the fault comes and goes, the panel will buzz every time the fault happens. If this is not acceptable you may be able to disable the zone that has the fault. (see page 10)

1. FIRE ALARM CONTROL PANEL SAFETY ISSUES

NOTE: This equipment will operate safely provided it has been installed correctly in compliance with the Installation Manual.

It is recommended that the system is serviced frequently. It is customary to arrange a regular maintenance contract with a competent organisation. (Ask the installation company for recommendations). The system needs a thorough maintenance check annually at the very minimum.

If any part of this Fire Alarm Control Panel becomes damaged, contact the company responsible for system maintenance to arrange repair / replacement.

2. THE PURPOSE OF A FIRE ALARM SYSTEM

1. A Fire Alarm System is used to provide an early warning of a fire, so that the property can be evacuated and the fire extinguished if it can be safely tackled, or the local fire brigade called, according to the company evacuation procedure.
2. An Alarm can be raised from Smoke or Heat Detectors, or manually by a person operating a Manual Call Point.
3. To split the building into Zones, each covering a different area of the building. This will indicate which area of the system is giving the alarm (or fault).
4. To start its sounders, and indicate which zone (area of the building) has signalled the fire. It will also activate its auxiliary relay.

Fault Monitoring

The panel checks all circuits for line integrity. If a part of the system has a problem, which may affect its operation, a fault warning must be given by the fire alarm panel (LED & buzzer indication). The fault relay will also activate.

Disablements

An engineer may be required to work on part of a system, while the system is still active (eg extending a detection zone). During such circumstances, it would be advisable to disable that zone, so that it will not give false alarms. Similarly you may wish to disable a zone that has a fault that has not been fixed, or a zone covering an area with a temporary unusual environment, such as an area which is dusty because of construction work etc.

Power Supply Equipment- General Description.

The SMARTWIRE has a switch mode power supply capable of supplying 1.2 amps in total. It contains a current limited output for charging sealed lead acid batteries (3.2 Ah maximum). The PSE is monitored for main supply failure, the battery not taking a charge and low battery voltage. If the battery voltage drops below approximately 20VDC (a fault condition), the battery charging current will be turned off , thus stopping charging.

3. USER RESPONSIBILITIES & MAINTAINENCE OF THE FIRE ALARM SYSTEM, INCLUDING THE FACP & ITS INTEGRAL PSE

According to the British Standard Code for Fire Detection and Alarm Systems for Commercial Buildings (BS5839: Pt 1: 2002), the owner or person having control of the premises should appoint a responsible person to oversee the effective operation of the Fire Alarm System (Clause 47.1).

Below is a summary of the main functions the "Responsible Person" is expected to carry out. This summary is not intended to replace Section seven (User responsibilities) of BS5839: Pt 1: 2002 (available from BSI, or your local library). It is meant to give a brief outline of user responsibilities for the safe upkeep of the Fire Alarm System. The number in brackets shows the relevant BS5839: Pt 1: 2002 clauses.

The responsible person must:-

1. Have sufficient authority to carry out the duties associated with being the responsible person (47.2.a)
2. Check the system at least once every 24 hours to ensure there are no faults present (47.2.b)
3. Ensure there are arrangements for testing and maintaining the system (47.2.c)
4. Ensure the log book is up to date, and available for inspection (47.2.d)
5. Instruct all relevant occupants on the basic operation of the system, including start evacuation, silence alarms, silence faults and system reset (47.2.e)
6. Take appropriate action to limit the rate of false alarms (47.2.f)
7. Ensure that all detectors and manual call points remain unobstructed at all times (47.2.g)
8. Liaise with maintenance personnel to ensure that cleaning, maintenance or building work does not interfere with the functioning and reliability of the fire alarm system (47.2.h)
9. Ensure any changes to the system are recorded with updated drawings, operating instructions etc (47.2.i)
10. Ensure that there are spare parts (especially Call point elements) held on site (47.2.j.1&2)
11. In the event of a prealarm, determine the cause & take appropriate action (predetermined fire routine if the cause is the start of a fire, arrange maintenance if the cause is a contaminated detector head) (47.3)

With the SMARTWIRE Fire Alarm Panel, we recommend the following tests are carried out: -

Daily Inspection

- ✦ Check that the green Power LED is lit.
- ✦ If there are any yellow fault LEDs lit, or the green Power LED is not lit, report the fault(s) to the designated site maintenance engineer.

Weekly Test (you may wish to temporarily disconnect the Aux relay during the following Tests)

- ✦ Enter access code 123. Press the LED Test button. Check that all LEDs light, and the buzzer sounds.
- ✦ Set off a manual call point or sensor to test the Fire Alarm panel responds and all the sounders activate.
- ✦ Do not test the same device each week. Test a different zone each week using a different call point or detector so that eventually, all the devices will be tested.
- ✦ Reset the System by pressing (Stop sounders, Silence Buzzer, Reset).
- ✦ Check that no call points or fire detectors are obstructed in any way. (e.g. New furniture or decorations)

Quarterly Test (to be carried out by authorised service personnel only)

- ✦ Check that any servicing or repairs required by all previous logbook entries has been undertaken.
- ✦ Visual inspection of the batteries and connections. Check the alarm sounders work on battery only.
- ✦ Activate a device from each zone to test the fire alarm. (As per weekly test).

Annual Test (to be carried out by authorised service personnel only)

- ✦ Check every detector, call point, sounder and all auxiliary equipment for correct operation.
- ✦ Check Switch Mode cage INPUT Voltage (29.5 VAC), Charger Voltage (27.6V off load) & Battery Voltage (25-27V)

Every Five Years (to be carried out by authorised service personnel only)

- ✦ Carry out a complete wiring check in accordance with the testing and inspection requirements of the relevant National wiring regulations (in the UK this is the IEE Wiring Regulations). The Batteries should be replaced because SLA batteries have a working life of 5 years.

4. PANEL INDICATIONS & CONTROL

The SMARTWIRE has been designed to be as straight forward as possible. To help achieve this it has been designed so that its LCD screen is the primary display. The display gives you more detailed information than is possible for simply using LEDs.

Zonal LEDs are still used for indicating fire conditions with Red coloured LEDs. A detailed description of the event will also appear on the LCD screen containing the type of device (i.e. Detector or MCP), Zone description, Device unique location & description. This is a much safer and quicker way to locate a potential fire than simply giving a 'zone' that the fire could be located within.

PANEL CONTROLS

The controls on the SMARTWIRE are grouped together to try to be as user friendly as possible. The Silence, Reset & Start/Stop

Sounder buttons are the main control buttons. The previous & Next buttons by the LCD are used to scroll between

Messages/menus. The General Test button is used to control the one man test mode. The General Disablement button is used to select disablements. The numeric section is for entering access codes, and for entering device addresses/ID using the mobile phone type alpha/numeric keys.

IN THE EVENT OF AN ALARM

After the site has been deemed safe for return, to return the panel to normal: -

1. Enter access code 123 (access on LED will illuminate).
2. Press Stop/Start = turn off external sounders
3. Press Silence = turn off the panels buzzer
4. Record the LCD details in the Fire Alarm Log Book
5. Press Reset = return panel to normal condition.

ACCESS LEVELS

The SMARTWIRE has the following access levels:

i. QUIESCENT STATE

When the Panel is in its Normal state the LCD Screen and indicator lights on the front of the enclosure give a comprehensive overview of the System's current status. Any Fire and Fault conditions are clearly displayed, and any disablements highlighted. For detailed descriptions of what each indicator means, please refer to Section 4.5.

The only functions that can be performed by the user when the panel is in the normal or quiescent state are:

- ☐ Scrolling between alarms using the Previous & Next buttons.
- ☐ Putting the Panel into the Controls Enabled state – see below.

ii. CONTROLS ENABLED

This access level is obtained by entering the user access code 123 . Here the user can start or stop the external sounders, silence the panel's internal buzzer, or reset the panel. The numeric keypad is also enabled which allows the user to enter the codes for configuration or test modes.

The user menu can also be accessed. From here the user can view various system settings, such as device labels, zone contents and the event log.

iii. CONFIGURATION MENU – FOR INSTALLATION /COMMISSIONING ENGINEER ONLY

This access level is obtained by entering the engineering code. This is a factory preset code which cannot be changed (see Installation Manual). Here the engineer can edit loop contents edit text labels, and several other panel set-up options.

iv. TEST MODE SELECTION – FOR TEST ENGINEER ONLY

This access level is obtained by pressing the test button, and entering the test code. This is a factory preset code which cannot be changed. Here the user can put any of the zones or sounder circuits into test mode. Turn the keyswitch back to the off position to exit this mode.

CHECKING THE PANELS INDICATION LEDS

Enter access code 123, then press the LED test button . All the LEDs on the front panel will light for 3 seconds, and the panel's internal buzzer will also sound. The LCD will show some configuration during the test

4.6 WHAT THE LEDS MEAN

The LEDs on the SMARTWIRE give the following basic information:

- **Zone RED** – Indicate a Zone is in Fire
- **Access On Yellow** – Indicates Access Level 1 or 2 is operative
- **General Disablement Yellow** – Something has been manually disabled – check LCD menu for details
- **General Test Yellow** – An engineer has entered a unique code and the panel is in 'Test Mode'
- **More Data Yellow** – More information is available use Next/Prev buttons to view
- **Fire Red** – Panel is in fire or evacuate mode
- **Fault Yellow** – There is a fault – check LCD screen/fault logs for details
- **Sys Fault Yellow** – There is a problem with the system, may require factory support
- **Power Green** – Power supply to panel is healthy.

5. THE FIRE CONDITION

HOW THE SMARTWIRE INDICATES AN ALARM

When the SMARTWIRE Fire Alarm Panel is set into alarm by a Detector or Manual Call Point located in a zone that is not already in alarm it will: -

- ⤴ Light the General Fire LED and appropriate Zone Fire LED(s) on the front of its enclosure.
- ⤴ Sound Internal buzzer
- ⤴ Start the Alarm Sounder and Auxiliary output

The building evacuation procedure should now be followed.

IMPORTANT NOTE: If a zone has been disabled, it can not be triggered into Alarm. This should be remembered when disabling part of the system (see Disabling zones or sounders later in this manual).

TO TURN OFF THE ALARM SOUNDERS

The Alarm Sounders may be silenced by entering access code 123 and momentarily pressing the Stop Sounders button.

The Alarm Sounders will cease to sound but the light(s) for the Zone(s) in Alarm and the red General Fire light will stay lit. The Auxiliary Fire relay will remain active. (The Panels internal buzzer can also be silenced by pressing the Silence Buzzer button).

A SECOND ALARM SIGNAL FROM A NEW DETECTION ZONE

If another detection Zone is activated after the Alarm Sounders have been silenced, the panel will: -

- ⤴ Restart the sounders
- ⤴ Light the Zone Fire LED(s) for any new Zone(s) in alarm
- ⤴ Keep the light(s) for the previous Zone(s) in fire, and General Fire lit.

TURNING ON THE ALARM SOUNDERS FROM THE FACP (I.E. TO EVACUATE THE BUILDING).

- ⤴ Enter the user code 123
- ⤴ Momentarily pressing the Start/Stop will cause the Alarm sounders to sound.
- ⤴ Pressing the Start/Stop button again will Silence the Alarm Sounders.
- ⤴ Note: If the Alarm Sounders have been disabled, pressing the Stop/Start button will have no effect.

RESETTING THE PANEL

- ⤴ Check the cause of the alarm activation. If the cause of the alarm was an activated call point, reset it (if resettable type), or fit a new glass element (if glass type). If the cause of the alarm was by detector activation (e.g. cooking smoke), the smoke will have to be cleared from the room before the panel can be reset. Reset the panel by pressing the reset button after the sounders and panel buzzer have been silenced.
- ⤴ If the call point is still active, or the detector is still smoky, this will cause another alarm straight after the panel is reset, and the alarm bells will start again.

6. THE FAULT CONDITION

DIFFERENT TYPES OF FAULT

The fire alarm monitors itself, and any equipment connected to it, for any faults that can occur. If a fault occurs, the Panel responds by activating its Internal buzzer and lighting the General Fault light and displaying the fault information on its LCD display. The Panel's Fault relay will also activate. Typical faults are described below: -

Zone Fault

1. Cable Break
2. Cable Short Circuit
3. Device Fault
 - a. Missing device
 - b. Removed detector
 - c. Double Address
 - d. Device Changed

Power Supply Fault

1. Mains Fault
2. Battery removed
3. Battery low
4. Battery High Impedance

Earth Fault

1. Earth Fault Positive
2. Earth Fault Negative.

Sounder Fault

1. Sounder Open Circuit
2. Sounder Short Circuit
3. Faults on an addressable sounder will be indicated as a device fault.

System Fault

The System Fault LED lights if the Panel's micro-processor has encountered a problem and has rebooted. This does not occur during normal operation., typically after excessive electrical interference, or if the contents of its memory have been corrupted. This fault can only be cleared by resetting the panel. If the fault re-occurs within 1 hour, this is indicative of a corrupt memory and expert advice should be sought.

6.2 WHAT TO DO IF A FAULT CONDITION OCCURS

If a fault occurs, the responsible person should:

- ⤴ Enter access code 123 to enable controls and press silence buzzer button to silence the fault buzzer.
- ⤴ Write down the fault (s) in the Log Book at the back of this Manual. Take appropriate action to correct the fault (Usually by contacting the service engineer)

On the SMARTWIRE panel, the fault indications (except system fault) are non latching. That is, when the fault has been cleared, the fault indication will turn off. When all faults have been cleared, the panel will return to its quiescent (normal) condition.

When a fault has been rectified the indicator light for that Fault is automatically turned off. If all Faults are cleared, the General Fault light will go out and the Panel's Internal Sounder will be silent (if not already muted).

7. DISABLEMENTS

7.1 REASONS FOR DISABLING CERTAIN PARTS OF A FIRE ALARM SYSTEM

Certain parts of this Fire Alarm Panel can be temporarily disabled (i.e. switched off) to suit prevailing conditions. For example, if there is a risk of a False Alarm in a zone, for example, from vehicle exhaust smoke in a loading bay, it is possible for the user to disable that zone during the risk period and then enable it again afterwards. During a disablement of a zone(s), no fire or fault signal will be processed for that zone(s). Only zone(s) in a non-alarm state can be disabled, that is zones already in a fire condition cannot be disabled.

External sounders can also be disabled as could be required in certain conditions

7.2 TO DISABLE A ZONE AND/OR EXTERNAL SOUNDERS

1. Enter user access code 123;
2. Press GENERAL DISABLEMENT button a
3. The panel will prompt for disablement code (248)
4. The screen will then show: ZONE DISABLEMENT ZONE 1. The panel is now in SELECT DISABLEMENT MODE.
5. Press NEXT BUTTON until the required zone or sounder circuit is DISPLAYED. Press ENTER to confirm the disablement.

```
Zone Disablement
Zone 1
Zone Enabled
Disabled Devices: 0
```

The screen will now show that the zone is disabled, and the GENERAL DISABLEMENTLED will light. This section is now disabled.

6. If more than one zone (or sounder) needs to be disabled, then press DISABLEMENT SELECT again until the required zone (or sounder) is selected.
7. If the panel needs to be taken out of SELECT DISABLEMENT MODE (e.g. to silence a fault on another part of the system), press the CANCEL button.

```
Zone Disablement
Zone 3
Zone Disabled
Disabled Devices: 0
```

7.3 TO ENABLE A ZONE AND/OR EXTERNAL SOUNDERS

1. Enter user access code (123 if required)
2. Press GENERAL DISABLEMENT button
3. Enter disablement code (248 if required)
4. The screen will show: ZONE DISABLEMENT ZONE 1. The panel is now in SELECT DISABLEMENT MODE.
5. Press NEXT until the disabled Zone or sounder is shown.
6. Press ENTER to enable the selected item. The screen will now show enabled. The General Disablement LED will turn off after all sections are taken out of disablement.
7. Press Cancel to return the panel to normal operation.

8. SYSTEM DESCRIPTION

FIRE ALARM SYSTEM SUMMARY

FIRE ZONE INFORMATION				
ZONE NO.	ZONE DESCRIPTION <i>A brief description of all the rooms and areas contained in each zone.</i>	QTY SNDR	QTY MCP	QTY HEADS
1				
2				
3				
4				
5				
6				
7				
8				

SOUNDER CIRCUIT INFORMATION				
SOUNDER CIRCUIT	SOUNDER CIRCUIT DESCRIPTION <i>A brief description of all the rooms and areas contained in each zone.</i>	QTY SNDR	QTY BELL	QTY STROBE
1				
2				

OUTPUT ROUTING INFORMATION		
TYPE OF OUTPUT	CONNECTED	WHAT HAPPENS WHEN ACTIVATED?
AUXILIARY OUTPUT	YES/NO	
FAULT OUTPUT	YES/NO	

ADDITIONAL INFORMATION
<i>Any additional information the User needs to know about should be inserted into this box including details of the routing of any additional outputs, details of inputs utilised, etc.</i>

THE INFORMATION ABOVE WAS COMPLETED BY	
NAME:	
COMPANY:	
POSITION:	
DATE:	

DETAILED ZONE CONTENTS

This must be fully recorded by an authorised Engineer before system handover.

ID	Type	Description	Verify	Sndr	Fish	ID	Type	Description	Verify	Sndr	Fish	ID	Type	Description	Verify	Sndr	Fish
Zone 1																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					
Zone 2																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					
Zone 3																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					
Zone 4																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					
Zone 5																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					
Zone 6																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					
Zone 7																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					
Zone 8																	
1						2						3					
4						5						6					
7						8						9					
10						11						12					
13						14						15					

9. FIRE ALARM LOG BOOK

It is recommended that this LOG BOOK section of the Manual be maintained by the responsible person(s) on site, who should ensure every event is properly recorded (including fire alarm conditions, failures, tests, temporary disconnections, disablements, enablements, dates of installing engineers' visits together with a note of any outstanding work or panel conditions). This LOG BOOK must be available for inspection at all times.

You can photocopy this log book to provide extra pages for when this book is full.

BS5839 part 1 recommends that fire alarm events should be subdivided & recorded on separate sheets in the log book. The event categories are:

- ⤴ Maintenance work.
- ⤴ False alarms - where the sounders have activated with no signs of a fire.
- ⤴ Any other events - this would be genuine alarms or faults.

COMPANY:
SITE ADDRESS:
SYSTEM DESIGNED BY:
SYSTEM INSTALLED BY:
SYSTEM COMMISSIONED BY:
SYSTEM MAINTAINED BY:
CONTRACT NO:
CONTRACT VALID UNTIL:
FOR SERVICE (NORMAL HOURS MON-FRI) TEL:
FOR SERVICE (OTHER TIMES) TEL:
RESPONSIBLE PERSON(S) ONSITE:

10. COMMISSIONING THE SYSTEM, INCLUDING POWER SUPPLY EQUIPMENT P.S.E.

- ⤴ The commissioning of this fire alarm system should be performed by a qualified commissioning engineer, who has an understanding of sections 2, 3, & 4 of BS5839 pt 1:2002 (i.e. Design considerations, Limitations of false alarms, Installation recommendations).
- ⤴ The system layout drawing should be checked for accuracy & stored in a safe place, accessible to any fire officer.
- ⤴ The system set-up data (section 8) should be checked for accuracy.
- ⤴ The fire alarm log book contact details should be checked for completeness.
- ⤴ The insulation of cables should be checked in accordance with BS5839 Pt1: 2002 clause 38.2 for compliance.
- ⤴ The Earthing should be checked in accordance with BS5839 Pt1: 2002 clause 38.2 for compliance.
- ⤴ The PSE mains feed from a 3A spur should be checked. It should be protected by an over current device (MCB) NOT an earth leakage device (RCD).
- ⤴ The PSE Charger voltage should be checked & adjusted if necessary (28.3 with batteries disconnected).
- ⤴ The battery voltage should be checked (should be between 24 & 27V).
- ⤴ All call points & detectors can signal an alarm condition and indicate the correct zone (and text message) on the fire alarm panel.
- ⤴ The Sound pressure level throughout the building should be checked for compliance with the recommendations of BS5839 Pt1: 2002 clause 16.2.
- ⤴ Any deviations from BS5839 Pt1 clause 7.2 should be listed in the Certificate of Installation & Commissioning.
- ⤴ The Certificate of Installation & Commissioning should be completed, and the whole user manual passed to the relevant person on site. (They should be given a brief training on the basic operation of the FACP).

10.1 DESIGN, INSTALLATION & COMMISSIONING CERTIFICATES

The guidelines in BS 5839 Pt1: 2002 say that each stage of the system design and installation should have a separate certificate. Before this User Manual is handed over to the relevant person(s) on site, the following certificates (or the relevant company's equivalent) should be completed by the system designer, the installation engineer and the commissioning engineer. The System Description sheet should also be completed on Pages 12-20 as should the relevant parts of the Log Book section.

The user or responsible person should then complete the acceptance certificate to acknowledge that they have been instructed in the use of the fire alarm, have witnessed that it is operational, and have been given all the relevant paperwork (drawings, log book, user manual, etc.).

Design Certificate (Page 1 of 2)

Certificate of DESIGN for the SMARTWIRE Fire Alarm System installed at:

ADDRESS:	

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 (Block Letters):		Position:	
Signature:		Date:	
For & on behalf of:			
Address			

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

System Category (see BS 5839-1:2002, Clause 5):

--

Variations from the recommendations of section 2 of BS 5839-1:2002 (see Clause 7):

Extent of system covered by this certificate:

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

Design Certificate (Page 2 of 2)

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

- The System is manual. Type & siting of manual call points takes account of the guidelines 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 fire detectors result 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 to the user to enable limitation of false alarms.
- Other measures as follows:

INSTALLATION & COMMISSIONING RECOMMENDATIONS

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 clause 35.2.6 of BS 5839-1:2002, it is recommended that following commissioning a soak period of _____ should follow.
(enter a period of at least 1 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 BS 5839-1:2002 Clause 43

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

Installation Certificate

Certificate of INSTALLATION for the SMARTWIRE Fire Alarm System installed at:

ADDRESS:	

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 specifications described below, and with the recommendations of BS5839-1:2002, except for the variations, if any, stated in this certificate

Name (Block Letters):		Position:	
Signature:		Date:	
For & on behalf of:			
Address			

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

Extent of the installation work covered by this certificate.

Specification against which the system was installed:

Variations from the specification and/or section 4 of BS 5839-1:2002 (see clause 7)

The wiring has been tested in accordance with the recommendations of clause 38 of BS 5839-1:2002. The test results have been recorded and provided to:

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

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Commissioning Certificate

Certificate of COMMISSIONING for the Infinity ID2 Fire Alarm System installed at:

ADDRESS:	

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 BS5839-1:2002, except for the variations, if any, stated in this certificate

Name (Block Letters):		Position:	
Signature:		Date:	
For & on behalf of:			
Address			

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

Extent of the installation work covered by this certificate.

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

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

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- 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.
- The 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 Clause 35.2.6 of BS 5839-1:2002 for a period of: _____ (enter a period of 1 week, the period required by the design specification, or the period recommended by the signatory to this certificate, whichever period is the greatest, or delete if not applicable)

Acceptance Certificate

Certificate of ACCEPTANCE for the SMARTWIRE Fire Alarm System installed at:

ADDRESS:	

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:

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Name (Block Letters):		Position:	
Signature:		Date:	
For & on behalf of:			
Address			

The extent of liability of the signatory is limited to the system described 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:
