ESPRIT-ARGUS REPEATER INSTALLATION, COMMISSIONING & OPERATING MANUAL

This manual covers the installation, programming and commissioning of the Esprit-Argus Repeater

INTRODUCTION

CE

2797

Haes Technologies Ltd, Unit 3, Horton Industrial Park, West Drayton, Uxbridge, UB7 8JD

Model Number	CPR Number
ESA-1001/1002	2797-CPR-720738

European Standard EN54-2: 1997 + A1: 2006

Control and indicating equipment for fire detection and fire alarm systems for buildings.

Provided Options (with requirements):

Output to fire alarm devices, dependency type 'A', test condition

European Standard EN54-4: 1998

Power supply equipment for fire detection and fire alarm systems for buildings.

Haes Technologies Ltd declare that the products identified above conform to the essential requirements specified in the Construction Products Regulation CPR305/2011/EU.

In addition, the product complies with the following:

Low Voltage Directive 2014/35/EC,

EN60950-1: 2006 Safety of information technology equipment Electromagnetic Compatibility Directive 2014/30/EC

EN61000-6-3:2007 + A1:2011 Emissions, Class B

EN50130-4: 2011 +A1:2014 Immunity, Product Family Standard.

This product has been designed to comply with the requirement of the low voltage safety and the EMC directives. Failure to follow the instructions may compromise its adherence to this standard.

List of optional functions with requirements:

EN54-2: 1997 + A1

Control and indicating equipment for fire detection and fire alarm systems for buildings

Provided options:

- 7.8 Outputs to Fire Alarm Devices
- 7.9 Fire alarm routing
- 7.11 Delays to outputs
- 7.12 Dependencies on more than one alarm signal (Type A, B & C)
- 7.13 Alarm Counter
- 8.3 Faults from points
- 9.5 Disablement of addressable points
- 10 Test Condition

EN54-4: 1997 +A2

Power supply equipment for fire detection and fire alarm systems for buildings.

Non-standard

Provided Options:

- Charge during alarm
- Earth fault monitoring
- UPS Mode
- Changeable password for Level 2
- Adjustable Date & Time

SAFETY

IMPORTANT NOTICE

PLEASE READ THIS MANUAL CAREFULLY BEFORE HANDLING THE EQUIPMENT AND OBSERVE ALL ADVICE GIVEN WITHIN IT.

THIS PARTICULARLY APPLIES TO THE PRECAUTIONS NECESSARY TO AVOID ELECTRO-STATIC DISCHARGE

Important Safety Notes

The panel is safe to operate provided it has been installed in compliance with the manufacturer's instructions and used in accordance with this manual.

Hazardous voltages are present inside the panel—DO NOT open it unless you are qualified and authorised to do so. There is no need to open the panel's enclosure except to carry out commissioning, maintenance and remedial work. This work must only be carried out by competent service personnel who are fully conversant with the contents of the panel's installation manual and have the necessary skills for maintaining this equipment.

The product must be installed, commissioned and maintained for operation, including periodic checks, in accordance with applicable codes of practice, national standard regulations and local instructions for fire systems appropriate to the country and location of the installation. It is the responsibility of the system user to ensure it is regularly serviced and maintained in good working order.

This equipment is designed to be operated from 230VAC 50/60 Hz mains supplies and is of Class I construction. As such it must be connected to a protective earthing conductor in the fixed wiring of the installation. Failure to ensure that all conductive accessible parts of this equipment are adequately bonded to the protective earth will render the equipment unsafe.

Disclaimer

No responsibility can be accepted by the manufacturer or distributors of this fire alarm panel for any misinterpretation of an instruction or guidance note or for the compliance of the system as a whole. The manufacturer's policy is one of continuous improvement and we reserve the right to make changes to product specifications at our discretion and without prior notice. E & O E.

Warnings

	Before installation, refer to the Ratings shown on the label inside the product and to the 'Specifications Chart' in this document. If you are unclear on any point, please DO NOT proceed. Contact the manufacturer or supplier for clarification and guidance. Only Trained service personnel should undertake the Installation, Programming and Maintenance of this equipment.

Cautions

Equipment Guarantee

This product has been manufactured in conformance with the requirements of all applicable EU Council Directives and is not guaranteed unless the complete system is installed and commissioned in accordance with the laid down national standards by an approved and competent person or organisation.

This product has been designed to comply with the requirements of the Low Voltage Safety and the EMC Directives. Failure to follow the installation instructions may compromise its adherence to these standards.

Waste Electrical and Electronic Equipment Directive

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PRODUCT OVERVIEW

Quality, reliability, ease of use and feature rich are attributes that are consistent across the entire range of Haes fire alarm control panels. The ESPRiT Addressable panels encompass all these attributes, to provide the fire alarm engineer's panel of choice.

For the fire alarm engineer, the panel has been designed to be easy to install and to minimise labour costs, by providing ample room for tasks such as wiring and changing batteries. Activation is via key switch or access code, which means you should always be able to work on the panel and the one man walk tests will help reduce the cost of maintaining the fire alarm system.

The ESPRiT-Argus Repeater is designed to be intuitive and flexible for the fire alarm engineer to programme and incorporates a large 240 x 64-pixel graphical display, with an easy-to-navigate menu system, which uses simple discernible icons in each section.

Simplicity is one of the most important aspects when considering the end user of a fire alarm panel. The easy to read control panel, with its graphical LCD display and five marked control buttons, and the 3-step silence functionality gives non-technical people the confidence to correctly manage their fire alarm system.

As part of an addressable panel, signals from detectors, manual call points or any other devices are individually identified at the repeater's LCD graphical display.

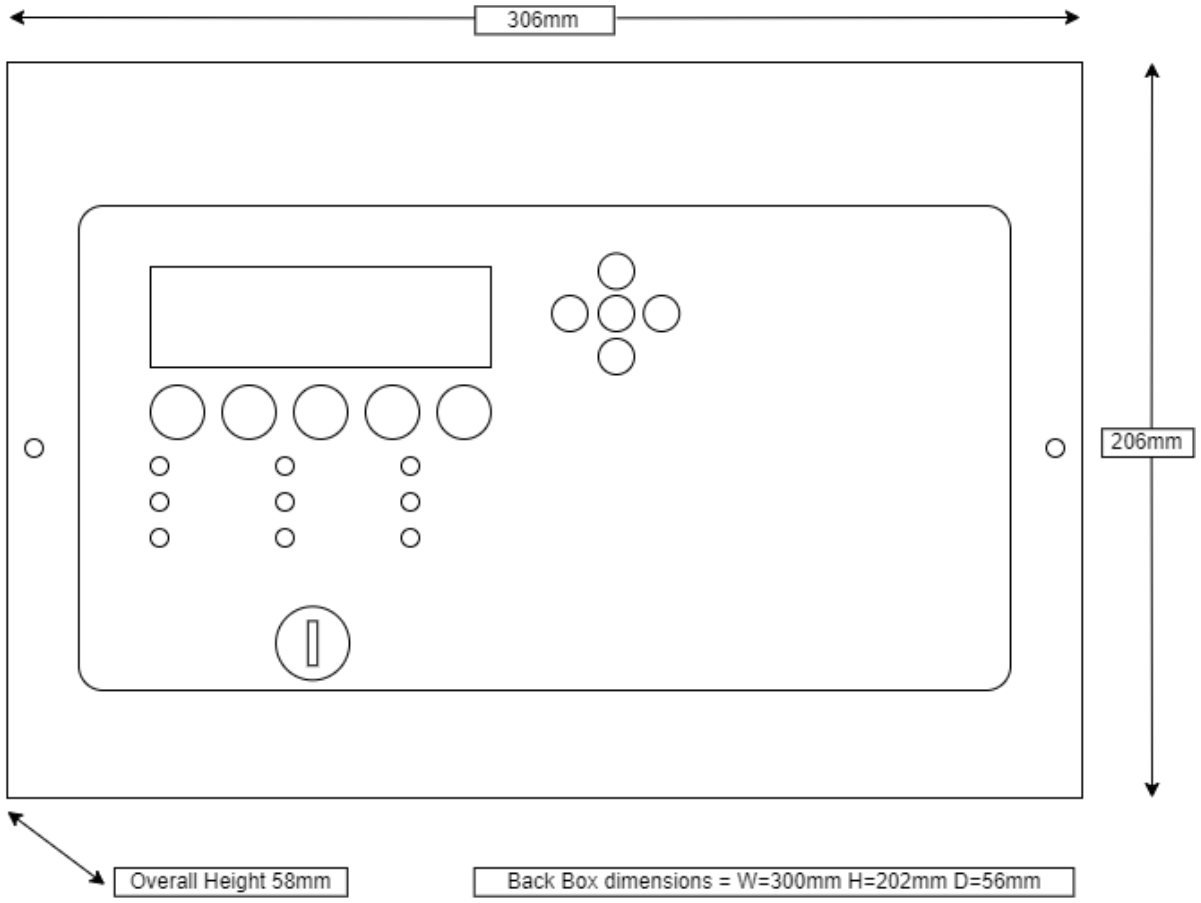
ESPRiT Addressable panels are approved to European standards EN54-2 & 4, Fire Detection and Alarm Systems – Control & Indicating Equipment.

This product has been designed and manufactured in the United Kingdom.

General Description of the Equipment

The repeater cabinet comprises of a sheet steel enclosure, suitable for wall mounting, with a screw fixed front access door. Cable entry is via 20mm 'knockouts' at the top and rear of the cabinet.

Repeater Cabinet



Circuit Description/Function

TPC2879-206 PSU PCB

PSU (+ -)

28.0VDC input from an EN54-4 compliant power supply

28V / 0V (+ -)

28V output, fused at 500mA

TPCA05 Network Card PCB

COMS A (+ -) / COMS B (+ -)

RS485 serial communication terminals connected to form a loop or a radial network.

Technical Specification

General Specification	
Enclosure	**Steel IP30.** Epoxy powder coated Interpon Radon, silver grey.
Cabling	Fire resistant screened cable, minimum size 1 mm^2. Max cable length 1 Km (20 Ohm). FireBurn, FP200 or equivalent (max capacitance 1uF, max inductance 1 millihenry).
Detector compatibility	Argus
Temperature range: -5°C to +40°C	Maximum relative humidity: 95%
Approx. dimensions of panel (W x H x D)	355 x 310 x 80mm (1 to 2 loop) 463 x 393 x 100 (1 to 4 loop)

Electrical Specification Inputs & Outputs – TPC2879-206 PSU PCB		
Terminal capacity	0.5mm^2 to 2.5mm^2 solid or stranded wire.	
PSU Input +/- to PCB	28VDC supply input. Diode protected for reversal and independent short circuit. Max current 1 amp.	
28v+, 0v- power output	28VDC supply output for fire alarm accessory relays etc. Max continuous use = 400mA.	Fused at 500mA. Fuse = 500mA resettable fuse.

Electrical Specification Inputs & Outputs – TPCA05 Network Card PCB		
Terminal capacity	0.5mm^2 to 2.5mm^2 solid or stranded wire.	
COMS A (+ -) COMS B (+ -)	Standard RS485 voltages. Short circuit protected.	

INSTALLATION

Safety

This product should be installed, commissioned and maintained by, or under the supervision of, competent persons according to good engineering practice and,

i. BS 7671 (IEE wiring regulations for electrical installations)

ii. Local codes of practice

iii. Statutory requirements and national standard regulations for fire systems appropriate to the country and location of the installation.

iv. Any instructions specifically advised by the manufacturer.

You are requested to take such steps as are necessary to ensure that any appropriate information about this product is made available by you to anyone concerned with its use.

Further copies of this User Instruction Manual are available from the website www.https://haes-tech.com.

This equipment is designed to be operated from 230V AC 50/60 Hz mains supplies and is of Class I construction. As such it must be connected to a protective earthing conductor in the fixed wiring of the installation. Failure to ensure that all conductive accessible parts of this equipment are adequately bonded to the protective earth will render the equipment unsafe.

THIS IS A PIECE OF CLASS I EQUIPMENT AND MUST BE EARTHED

Only trained, suitably skilled and technically competent service personnel should undertake the Installation, Programming and Maintenance of this equipment.

ESD Precaution

This particularly applies to the precautions necessary to avoid Electro-Static Discharge.

This equipment is constructed with static sensitive components. Wear an anti-static earth strap connected to panel enclosure's earth point. Before installing or removing any printed circuit boards, or connecting cables, remove all sources of power (mains and battery).

Installing the system

General

Care should be taken with regards to avoiding the close proximity of high voltage cables or areas likely to induce electrical interference. Earth links should be maintained on all system cables and grounded in the control panel. The detection and sounder circuit cabling is classed as extra low voltage and must be segregated away from mains voltage.

Any junction boxes used should be clearly labelled FIRE ALARM.

Any coils or solenoids used in the system must be suppressed, to avoid damage to the control equipment.

Environment

The site chosen for the location of the panel should be clean, dry and not subject to shock or vibration. Damp, salt air or environments, where water ingress or extremes of temperature may affect the panel, must be avoided. The temperature should be in the range of -5°C to +40°C, and the relative humidity should not exceed 95%.

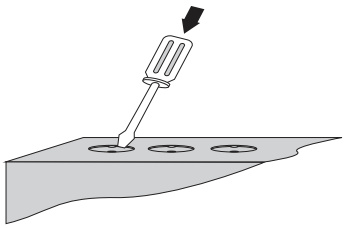
Mounting the cabinet

Secure the cabinet to the wall using the four indented holes in the back of the cabinet. Ensure the cabinet is mounted level and in a convenient location for it to be operated and serviced.

Recommended screws size is M 4.0 * 38mm.

External cables should pass through a suitable gland via preformed knockouts at the top and rear of the cabinet. Any unused knockouts must be securely blanked off. Remove any knockouts and ensure the cabinet is clear of swarf etc.

Knockouts should be removed with a sharp tap at the rim of the knockout, using a 6mm broad bladed screwdriver. Use of excessive force will damage the enclosure around the knockout.



Power connections

Note: All connections must be carried out in accordance with local requirements and regulations.

Do not connect the power supply to the panel until you are fully conversant with the layout and features of the equipment.

The incoming power supply should be brought into the panel via one of the knockouts provided.

A suitable cable gland must be used to secure the outer sheath of the cable used.

Network Wiring

The Repeater require a 4-wire connection (2 wires for 28V power, 2 wires for RS-485 data) from the control panel. The power connections for multiple repeaters should all be wired in parallel. The communication connections should be wired from Com A to Com B on each link in the chain of repeaters.

Each Repeater has a PCB-mounted DIL switch and must be allocated a unique address between 9 and 16. Switch 4 must always be ON. Switches 1 to 3 represent a binary number from 0 to 7 which allocates the corresponding address from 9 to 16.

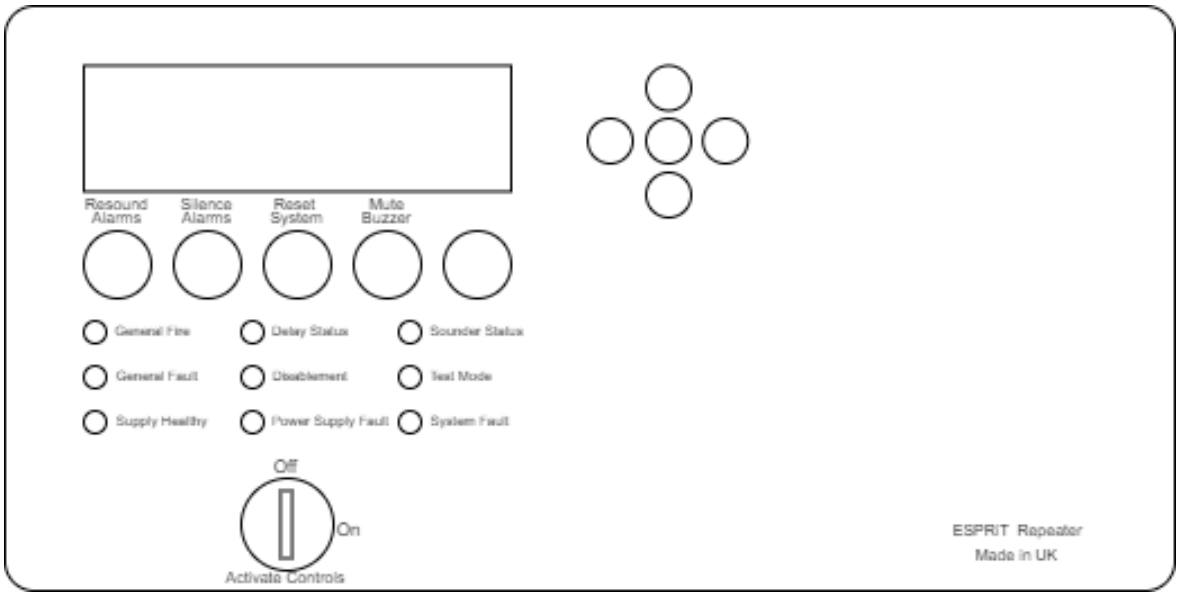
OPERATING INSTRUCTIONS

Repeater Control and Indications

Front Panel

The front panel contains:

- LCD Display screen
- 5 button control keypad
- Up/down/left/right arrow keys and enter (✓) key curser control keypad
- Panel status LED indicators
- Activate Controls Key Switch



Keypads

	**Resound Alarms**	Use to resound the alarms after they have been silenced. Can also be used to invoke full evacuation.
	**Silence Alarms**	Use to silence the sounders during an alarm condition.
	**Reset System**	Resets the panel back to standby mode.
	**Mute Buzzer**	Mutes the panels internal fire and fault buzzer.
	**Return**	Press to exit current menu or command as indicated in the bottom corner of the LCD display.
	**Scroll Display (arrows)**	Press to navigate the display messages and menus
	**Enter (Tick)**	Press to select the available menus Press to confirm selection of a menu option Press to confirm some of the configuration options

Status LED Indicators

LED Name	LED ON	LED Pulsing
Supply Healthy:	Indicates mains and/or battery supply is present.	N/A
General Fire:	Indicates panel is in alarm condition that has been silenced.	Indicates panel is in the unsilenced alarm condition
General Fault:	Indicates one or more faults are present and the buzzer has been muted	Indicates one or more faults are present.
Disablement:	Indicates one or more circuits have been disabled.	N/A
Test Mode:	Indicates one or more circuits are in test Mode	N/A
Sounder Status:	Indicates sounder circuits have been disabled or are in test mode	Indicates a fault on one or more sounder circuits.
Power Supply Fault:	Indicates a power supply fault on mains power input or battery and buzzer has been muted	Indicates a power supply fault on mains power input or battery
Delay Status:	Delays are configured	Delay is running
System Fault:	Indicates a system failure, panel not functional or the internal PCB configuration has not been set up correctly.	Indicates the panel has recovered from a system fault.

Software Downloads

The Haes Configuration panel software enhances the ease of programming of the panel, by enabling the engineer to both download existing panel configurations for amendment, or programme new panel configuration 'off panel' before uploading onto the panel. Programming of the configuration uses easy to follow tables.

The Haes Configuration panel software is available to be downloaded from the Haes website:

www.https://haes-tech.com

User Controls

Three levels of control, with programmable code entry, are available on the panel:

- General User (Access level 1)
- Authorised User (Access level 2)
- Engineer (Access level 3) (CONFIG Mode).

In General User (Access level 1) mode; most of the keypad controls are inactive, to protect the system from unauthorised operation.

The use of a code entry to activate the controls is enabled by default but can be disabled in the Level 3 engineering functions.

Once the panel is powered up, the LCD screen will display any faults found, accompanied by the relevant status LEDs flashing and a warning tone. After clearing any faults found, the Title screen will be displayed. The General User (Access level 1) are then available.

General User Controls

The General User (Access Level 1) controls are accessible when the **Activate Controls** key is set to **Off** and four-digit access code has not been entered.

Available Functions

The functions that can be performed in Access Level 1 are:

- Mute the internal buzzer
- View active faults
- Change from General User to Authorised User; using either the Activate Controls key switch, or by entering the four-digit code to access level 2

Authorized User Controls

The Authorized User (Access level 2) controls can be accessed by:

- turning the Activate Controls key clockwise into the 'On' position. The padlock symbol will show unlocked and all the buttons on the keypad will be operational. To deactivate the controls, turn the key back to the OFF position. The padlock symbol will show locked.

or

- entering four-digit code 1111:
    - Press ✓ key
    - Use the Up/Down arrow keys to increase/decrease the number value
    - Use the Left/Right arrow keys to move to the next digit in the 4-digit sequence

- When all 4 digits have been set to the code **1111,** press enter ✓ key once again
- The **MAIN MENU** will become available for operation.

Once the code is entered, or the **Activate Controls** key is turned to **On**, the LCD unit will display the **MAIN MENU**. Use the Scroll Control keypad up/down and left/right arrows, and the enter ✓ key to navigate the Access level 2 menu.

Note: If the Activate Controls key is in the **On** position, the keypad will remain active.

Note: It is not possible to remove the key, whilst it is in the **On** position.

Note: The padlock symbol is shown on the LCD screen, to the right of the Time and Date indication.

Note: The Access level 2 code 1111 is the factory default. The access code may be changed from the **CONFIG** menu.

Available Functions

The functions that can be performed at Access level 2 are:

- Resound the alarms
- Silence the alarms
- Reset the system
- Mute the internal buzzer
- Access the Authorised User (Access level 2) menu structure, from the icons on the **MAIN MENU**
- Access the **CONFIG** menu (Access level 3) Engineer controls, for configuration and commissioning of the system, by entering the Engineer Access level 3 four-digit access code

Authorised User Menu Options

All menu options except **CONFIG** on the **MAIN MENU** are available to an Authorised user.

Engineer Controls

The Engineer (Access level 3) controls can be accessed by:

- From the Authorised User (Access level 2) **MAIN MENU**, use Left/Right arrow keys to move cursor to **CONFIG** menu icon
- Press ✓ key to select **CONFIG** menu. The digital display will show the following message:

  Enter Level 3 Access Code
- Use the keypad to enter code 3333:
  - Press ✓ key
  - Use the Up/Down arrow keys to increase/decrease the number value
  - Use the Left/Right arrow keys to move to the next digit in the 4-digit sequence
  - When all 4 digits have been set to the code 3333 press ✓ key once again. The Access level 3 menu will become available for operation.

Use the Scroll Control keypad up/down and left/right arrows, and the enter ✓ key to navigate the Access level 3 menu.

Note: The Access level 3 code 3333 is the factory default.

Available Functions

The functions that can be performed at Access level 3 are:

- Configure the network options
- Reset panel to factory defaults
- Reset four-digit passcodes

Engineer Menu Options

The Engineer (Access level 3) menu options, available from the **MAIN MENU**, are:

- CONFIG

Panel Alarm Conditions

Fire Alarm Condition

The display shows location/origin of the fire alarm and the total number of zones in a fire alarm condition.

If two or more zones enter the fire alarm condition, the display also shows the location of the last zone to enter a fire alarm condition.

In addition:

- The **General Fire** LED and the respective Detection Zone LED(s) will be illuminated.
- The fire alarm bells/sounders will activate (depending on how they are programmed to respond).

To silence the internal buzzer, press the **Mute Buzzer** button.

To silence the bells, press the **Silence Alarm** button.

To reset the panel, press the **Reset System** button.

Fault Condition

If the panel detects a fault condition, the display will indicate the number and nature of the fault(s). The internal buzzer will sound with an intermittent tone and the amber **General Fault** LED will illuminate pulsing, and any other specific Fault LED indications will be illuminated.

Press the Left/Right and Up/Down arrow keys to scroll through the list of faults.

Press the Mute Buzzer key to silence the internal buzzer. The General Fault amber LED will change to steady illumination

Note: The fault condition is non-latching (except System Fault) and the indications will automatically be cleared when the fault is remedied. Press the **Reset System** key to clear a Fault.

Note: If silenced, the buzzer will re-sound when a new fault occurs.

Functionality During a System Fault

A system fault is indicated when a processor, controlling a function in the panel, has a watchdog time-out or processor failure. In the event of a system fault, the affected board may not be functional. The following indications may be observed:

- Display Board (Main control board)
    - **System Fault** LED only illuminated
    - Continuous buzzer sound
    - Display board (main control board) is halted and no other indication or control is possible
    - Fault relay is activated
- Extension LED board (optional)
    - **System Fault** LED continuous and General Fault LED pulsing

  - The extension LED Board is halted
  - Fault relay is active
  - Fire alarms can still be detected and controlled by the panel.
- Power Supply Board
  - **System Fault** LED pulsing
  - General Fault LED pulsing
  - Power Supply Fault LED pulsing
  - Fault relay activated
  - Mains or battery power will still operate the panel. Batteries will not be charging
  - Indications will remain until the fault is rectified and the panel is reset
  - Remote status units will cease to function
- System Fault recovery
  - **System Fault** LED pulsing
  - General Fault LED pulsing
  - Pulsed buzzer (fault tone), indicates a system fault has occurred, and the affected board has recovered
  - The indication will remain until the panel is reset.

Functionality During a Loop Fault

If a fault occurs on a transmission path (short circuit or interruption), the function of the remaining operational devices is re-established within 300 sec following the occurrence of the fault.

Note: This is compliant with EN54-2, Clause 12.5.

CONFIGURING THE SYSTEM

When the system is installed and is ready to be commissioned, configure as follows:

- Set the network options using the **CONFIG** option.
- Set the panel user interface controls (Time & Date, Display contrast, internal buzzer volume, etc.), using the **MAIN MENU** described below.
- Any alarm or fault events, system status etc., can be viewed using the **REPORT** menus, described below.

Accessing the Menu Structure

Power-on the panel. Any faults detected will be displayed, accompanied by a warning tone. Press the **Mute Buzzer** button to silence the warning tone. Resolve any faults before proceeding.

Next proceed by pressing the ✓ button, the LCD unit displays the following Access Level 2 Menu (see picture below):

To access the menu structure:

- Turn **Activate Controls** key switch clockwise to **On**

or

- use the keypad to enter Authorised User (Access level 2) code **1111**:
- Press ✓ key to select Access level 2. The digital display will show the following message:

Enter Level 2 Access Code

  - Use Up/Down arrow keys to increase/decrease the number value
  - Use Left/Right arrow keys to move to the next digit in the 4-digit sequence
  - When all 4 digits have been set to the code **1111**, press the ✓ key again
  - The LCD unit displays the Access Level 2 **Main Menu** (see picture below), which is available for operation

Note: Access level 2 Menu will deactivate after 30 sec if not used.

On the LCD screen, the box surrounding the menu icon is the cursor; this can be navigated through the menu options by using the Left/Right arrow keys to select required menu option and then pressing the ✓ key.

The Left/Right and Up/Down arrow keys can then be used to access further sub-menus and options within the main menus.

Press ✓ key to select required sub-menu or option and to make changes to a selected option.

Where there are options that have adjustable values, these are altered with the Up/Down arrow keys followed by pressing ✓ key, when required value is reached.

Use the return ↩ key to exit all menus and options.

MAIN MENU

The options are:

- MAIN MENU
  - CONFIG
    - OPTIONS
    - PASSWORD
    - DEFAULT
  - REPORT
    - ALARM
    - FAULT
    - DISABLE
    - TEST
    - OTHER
  - TIME & DATE
    - Time & Date
    - Set DST
  - LAMP TEST
  - CONTRAST
  - BUZZER

To access the **MAIN MENU**:

- Turn Activate Controls Key to On

  or
- Use the keypad to enter code **1111**:
  - Press ✓ key
  - Use the Up/Down arrow keys to increase/decrease the number value
  - Use the Left/Right arrow keys to move to the next digit in the 4-digit sequence
  - When all 4 digits have been set to the code **1111** press ✓ key once again
  - The **MAIN MENU** will become available for operation.

Note: Access level 2 Menu will deactivate after 30 sec if not used.

MAIN MENU: CONFIG

To access the **CONFIG** menu:

- On the **MAIN MENU**, use Left/Right arrow keys to move cursor box to **CONFIG** icon
- Press ✓ key to select the **CONFIG** icon. The digital display will show the following message:

  Enter Level 3 Access Code

- Use the keypad to enter code **3333**:
  - Press ✓ key
  - Use the Up/Down arrow keys to increase/decrease the number value
  - Use the Left/Right arrow keys to move to the next digit in the 4-digit sequence
  - When all 4 digits have been set to the code **3333** press ✓ key once again. The Access level 3 menu will become available for operation.

Note: Access level 3 Menu will deactivate after 30 sec if not used.

CONFIG MENU: OPTIONS

To configure the network options, access the **OPTIONS** menu:

- Highlight the **OPTIONS** option under the **CONFIG** menu and press ✓ key.
- The information available under **OPTIONS** sub-menu will be presented as follows:

  1: LOCAL PANEL CONTROL: YES/NO

  2: LOCAL MUTE CONTROL: YES/NO

- Use the Up/Down arrow keys to navigate between options **1** to **2**
- For options **1** and **2**, press ✓ key to set value **YES** or **NO**
- Next, press the return ↩ key once to accept all changes and to return to the **CONFIG** menu. A short acknowledgement sound will be present.

CONFIG MENU: PASSWORD

To set the 4-digit access codes, access the **PASSWORD** menu:

- Highlight the **PASSWORD** option under the **CONFIG** menu and press ✓ key.
- The **Set Password Menu** will be presented as follows:

  OLD User Password: 1111 **Back**

  User Password: 0000 **Confirm**

- Use the Up/Down arrow keys to increase/decrease the number value
- Use the Left/Right arrow keys to move to the next digit in the 4-digit sequence
- When all 4 digits have been set to the required new code press ✓ key once again.
- Press the return ↩ key once to return to the **CONFIG** menu.

CONFIG MENU: DEFAULT

To return the panel to its factory default settings, access the **DEFAULT** menu:

- Highlight the **DEFAULT** option under the **CONFIG** menu and press ✓ key.
- The following information will be displayed on the digital display:

ARE YOU SURE?

SET PANEL DEFAULTS

NO YES

- Use the Left/Right arrow keys to choose between **YES** or **NO** options and then press ✓ key in order to enable your action.
- If **NO** value has been selected, then the system will return to **CONFIG** menu and the current settings will be maintained.
- If **YES** value has been selected, then all current settings will be overwritten, and the system will return to original factory settings.

Caution is recommended before choosing the YES value for the DEFAULT option! Choosing this option will remove ALL configuration that has been set and will return the panel to its factory default settings.

- Press the return ↩ key once to return to **CONFIG** menu. A short acknowledgement sound will be present.

MAIN MENU: REPORT

From the **REPORT** menu, reports on the number and type of Alarm, Fault, Disablements, etc. events can be displayed:

REPORT MENU: ALARM

To get ALARM events information:

- On the **REPORT** sub-menu, highlight the **ALARM** option and press ✓ key to select it.
- The number (**n**) of Alarm events will be displayed in the following manner:

ALARM A nn F nn D nn T nn O nn

List of detected alarms

Where:

- **A** means Alarm
- **F** means Faults
- **D** means Disablement
- **T** means Test
- **O** means Other

- Press the return ↩ key or ✓ key to return to the **MAIN MENU** display.

REPORT MENU: FAULT

To get **FAULT** events information:

- Under **REPORT** sub-menu, select **FAULT** option and press ✓ key to select it.
- **Fault** info will be displayed in the following manner:

  FAULT A nn F nn D nn T nn O nn

  List of detected faults

  Where:

  - **A** means Alarm
  - **F** means Faults
  - **D** means Disablement
  - **T** means Test
  - **O** means Other

- Press the return ↩ key or ✓ key to return to the **MAIN MENU** display.

REPORT MENU: DISABLE

To get **DISABLE** events information on system disablements:

- Under **REPORT** sub-menu, select **DISABLE** option and press ✓ key to select it.
- **DISABLE** info will be displayed in the following manner:

  DISABLE A nn F nn D nn T nn O nn

  List of detected disablements

  Where:

  - **A** means Alarm
  - **F** means Faults
  - **D** means Disablement
  - **T** means Test
  - **O** means Other

- Next, press return ↩ key or ✓ key to return to the **MAIN MENU** display.

REPORT MENU: TEST

To get **TEST** events information on system test modes enabled:

- Under **REPORT** sub-menu, select **TEST** option and press ✓ key to select it.
- **TEST** info will be displayed in the following manner:

  TEST A nn F nn D nn T nn O nn

  List of test modes enabled

  Where:

  - **A** means Alarm
  - **F** means Faults
  - **D** means Disablement
  - **T** means Test
  - **O** means Other

- Next, press return ↩ key or ✓ key to return to the **MAIN MENU** display.

REPORT MENU: OTHER

To obtain a report on **OTHER** events information (any events not covered under ALARM, FAULT or DISABLE – e.g. Non-Fire alarm events):

- Under **REPORT** sub-menu, select **OTHER** option and press ✓ key to select it.
- **OTHER** info will be displayed in the following manner:

  OTHER A nn F nn D nn T nn O nn

  List of detected events

  Where:

  - **A** means Alarm
  - **F** means Faults
  - **D** means Disablement
  - **T** means Test
  - **O** means Other

- Next, press return ↩ key or ✓ key to return to the **MAIN MENU** display.

MAIN MENU: TIME&DATE

The **TIME&DATE** sub-menu is used to set the system clock and to set the period where the system clock is moved forward 1 hour, to reflect local Daylight Savings Time (DST):

- Under **MAIN MENU** highlight the **TIME&DATE** option and press ✓ key to select it
- The **TIME&DATE** sub-menu will display the following options:

  TIME&DATE MENU

  TIME & DATE Set DST
- Use the Left/Right arrow keys to highlight the required option and press ✓ key to select it

TIME&DATE MENU: TIME & DATE

To set the system Time & Date:

- Under **MAIN MENU** highlight the **TIME&DATE** option and press ✓ key to select it.
- On the **TIME&DATE** sub-menu, highlight the **TIME & DATE** option and press ✓ key to access it.
- Adjust the time and date as required, using the Up/Down and Left/Right arrow keys.
- Press return ↩ key once to return to **TIME&DATE** menu.

TIME&DATE MENU: SET DST

The **Set DayLight Savings Menu** is used to set the start and end of local Daylight Savings Time on the system:

- Under **MAIN MENU** highlight the **TIME&DATE** option and press ✓ key to select it.
- On the **TIME&DATE** sub-menu, highlight the **Set DST** option and press ✓ key to access it.
- Under the **Set DayLight Savings Menu** sub-menu, the following options will be displayed:

  Set DayLight Savings Menu

  Starts: LAST Sunday MAR

  Ends: LAST Sunday OCT

  Auto Update DayLight Savings: YES/NO

  DST: ACTIVE/INACTIVE
- To change the **Set DayLight Savings** sub-menu options, to match local start and end of DST:
  - Use Left/Right arrow keys to move between the various fields (indicated by underline curser). Use Up/Down arrow keys to toggle to the required setting for each field:
    - **Starts: LAST/1st/2nd/3rd/4th Monday – Sunday JAN - DEC** - adjust the date, to show when the local Day Light Savings time begins (e.g. – **Starts: Last Sunday MAY**)

- **Ends: LAST/1st/2nd/3rd/4th Monday – Sunday Jan - DEC** - adjust the date, to show when the local Day Light Savings time ends (e.g. – **Ends: 4th Tuesday OCT**)
- **Auto Update DayLight Savings: YES/NO** - adjust to turn on or off the automatic switching of the system clock forward by 1 hour to match local DST
- **DST: ACTIVE / IN-ACTIVE** – not amendable, automatically shows the current DST state, dependent on the above settings.

- Press return ↩ key once to return to **TIME&DATE** menu.

MAIN MENU: LAMP TEST

To operate the **LAMP TEST** menu, to test the panel LCD display and warning LEDs:

- Under **MAIN MENU** highlight the **Lamp Test** option, and then press ✓ key to select it. This action will enable the lamp test mode: a long acknowledgement sound will be present, the digital display will go OFF, and the following LEDs will come on, at the same time, for a couple of seconds:
  - General Fire
  - General Fault
  - Supply Healthy
  - Delay Status
  - Disablement
  - Power Supply Fault
  - Sounder Status
  - Test Mode
  - System Fault

Note: After the lamp test has been performed, the LCD digital display will turn back ON (displaying the **MAIN MENU**), after all LEDS have extinguished and the long acknowledgement sound has stopped.

MAIN MENU: CONTRAST

To set the LCD screen contrast and backlight, operate the Contrast menu:

- Under **MAIN MENU** highlight the **CONTRAST** option, and then press ✓ key to select it
- Under the **CONTRAST** sub-menu, the two following options will be available:
  - **CONTRAST**: use the left and right arrow keys to adjust the value
  - **BACKLIGHT**: using the up and down arrow keys, one of the following values can be set: **MIN**, **HALF**, and **MAX**
- Press return ↩ key to return to **MAIN MENU**. A short acknowledgement sound will be present.

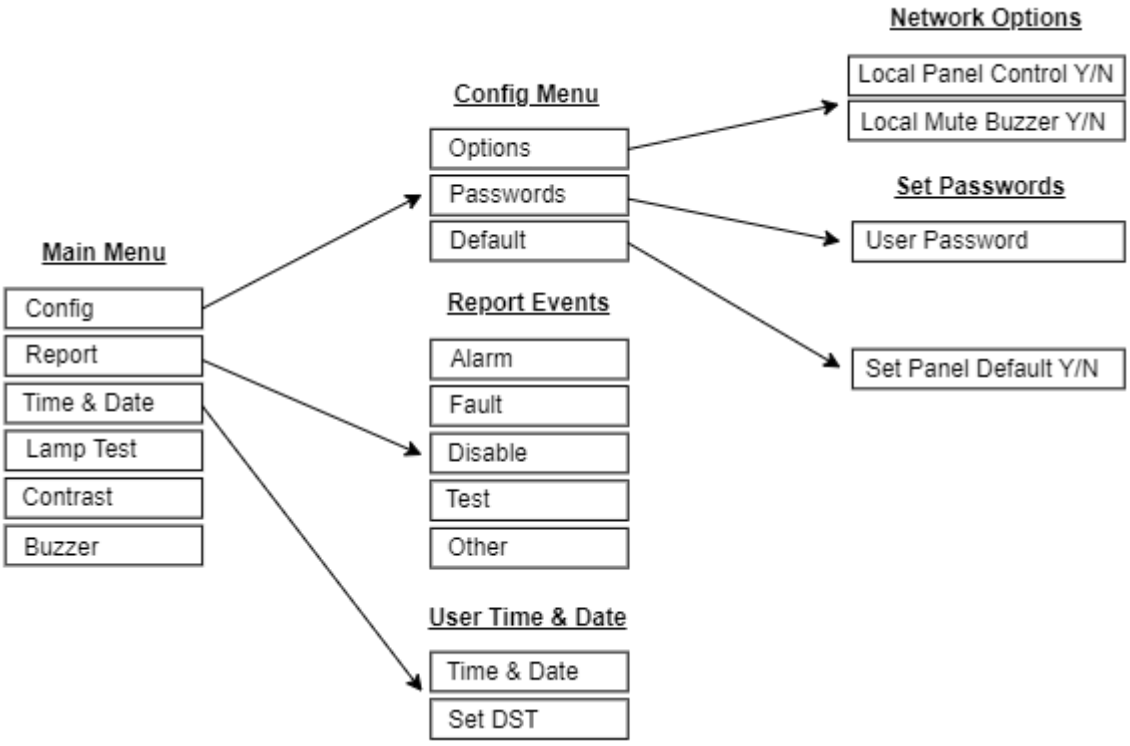
MAIN MENU: BUZZER

To set the volume for the panel internal buzzer, open the **BUZZER** menu:

- Under **MAIN MENU**, highlight the **BUZZER** option and then press ✓ key to select it.
- Under **BUZZER Menu** the following option will be available:

  VOLUME
- Use Left/Right arrow keys to adjust the buzzer volume
- Press return ↩ key to return to **MAIN MENU**. A short acknowledgement sound will be present.

MENU Breakdown



SERVICE AND MAINTENANCE

The product must be maintained for operation, including periodic checks, in accordance with applicable codes of practice, national standard regulations and local instructions for fire systems appropriate to the country and location of the installation. It is the responsibility of the system user to ensure it is regularly serviced and maintained in good working order.

SCHEDULE OF TESTING

This section to be used to record ALL weekly tests of the fire alarm system.

Date & Time of Test	Device Tested & Location	Comments (if any)	Initials of Tester

Date & Time of Test	Device Tested & Location	Comments (if any)	Initials of Tester

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