

# Extinguishant Release Panel

# Sigma ZXT

## Operation Manual



## Safety

Suppliers of articles for use at work are required under section 6 of the Health and Safety at Work Act 1974 to ensure as reasonably as is practical that the article will be safe and without risk to health when properly used.

An article is not regarded as properly used if it is used 'without regard to any relevant information or advice' relating to its use made available by the supplier.

This product should be installed, commissioned and maintained by trained service personnel in accordance with the following:

- (i) Regulations for electrical equipment in buildings specific to the country of use.
- (ii) Codes of practice
- (iii) Statutory requirements
- (iv) Any instructions advised by the manufacturer.

According to the provisions of the Act you are therefore requested to take such steps as are necessary to ensure that you make any appropriate information about this product available to anyone concerned with its use.

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- (ii) Codes of practice
- (iii) Statutory requirements
- (iv) Any instructions specifically advised by the manufacturer

According to the provisions of the Act you are therefore requested to take such steps as are necessary to ensure that you make any appropriate information about this product available to anyone concerned with its use.

This equipment is designed to operate at 230V AC 50/60Hz mains supplies, class 1 construction. As such it must be connected to a protective earthing conductor in the fixed wiring of the installation and a readily accessible double pole disconnect device meeting the requirements of EN60950/IEC950 which disconnects live and neutral simultaneously shall be incorporated in the fixed wiring.

Switch disconnect devices such as MK Sentry 63A or similar are suitable for this. Failure to ensure that all conductive accessible parts of this equipment are adequately bonded to the protective earth will render the equipment unsafe.

This Control Panel is environmental class A and is designed for indoor use only at temperatures between -10°C and +45°C with a maximum relative humidity of 95%. The IP rating for the enclosure is IP30.

**Operation outside of these limits may render the equipment unsafe.**

## Compliance

**Sigma ZXT is compliant with the following standards:**

EN54-2 and EN54-4 Fire Detection and Fire Alarm Systems - Control and Indicating Equipment

**In addition to the standard EN54-2 requirements the following options with requirements have been included in the Control Panel:**

Output to alarm devices to enable an audible warning to be sounded throughout the premises upon the detection of a fire condition or the operation of a manual call point. EN54-2 Section 7.8.

Test condition to allow the automatic resetting of zones in alarm for testing purposes. EN54-2 Section 10.

Delay of the actioning of fire alarm devices (sounders) so that an alarm may be verified before a premise is evacuated. EN54-2 Section 7.11

In addition to the requirements of EN54-2, Sigma ZXT Control Panels have a voltage free relay contact for fire which operates upon a fire condition. This is to be used for local control and signalling.

EN12094-1 Fixed fire-fighting systems - Components for gas extinguishing systems - Part 1: Requirements and test methods for electrical automatic control and delay devices.

**In addition to the standard EN12094-1 requirements the following options with requirements have been included in the Control Panel:**

Delay of extinguishing signal of up to 60 seconds. EN12094-1 Section 4.17.

Signal representing the flow of extinguishing agent to indicate the released condition. EN12094-1 Section 4.18.

Monitoring of the status of components by way of a low pressure switch input. EN12094-1 Section 4.19.

Emergency hold device to enable the extinguishant delay time to be extended. EN12094-1 Section 4.20.

Control of flooding time to deactivate the releasing output after a set period of time. EN12094-1 Section 4.21.

Manual only mode to disable the release of extinguishant via automatic detection devices. EN12094-1 Section 4.23.

Extinguishing signals to spare cylinders enables the switching to a spare set of cylinders following a discharge to return the system to a functional state. EN12094-1 Section 4.25.

Emergency Abort device to inhibit the extinguishing signal until the emergency abort device has been de-activated and the Panel has been reset. EN12094-1 Section 4.27.

Activation of alarm devices with different signals to indicate pre-discharge and released warnings using different sounds. EN12094-1 Section 4.30.

**Default panel settings provide EN54-2 compliance:**

**BUZZER O/P:** Enabled/Disabled This must be set to **ENABLED**.

**MAINS FLT RLY DLY:** OFF/30m This must be set to **OFF**.

**FAULT RELAY:** ENABLED/DISABLED This must be set to **ENABLED**.

**FIRE RELAY:** ENABLED/DISABLED. This must be set to **ENABLED**.

**EARTH FAULT:** ENABLED/DISABLED This must be set to **ENABLED**.

**Important!** Any deviation from these settings and compliance EN54-2 is void.

## **Disclaimer**

In no event shall The Manufacturer be liable for any damages or injury of any nature or kind, no matter how caused, that arise from the use of the equipment referred to in this manual. Strict compliance with the safety procedures set out and referred to in this manual, and extreme care in the handling or use of the equipment, are essential to avoid or minimise the chance of personal injury or damage to the equipment.

The information, figures, illustrations, tables, specifications, and schematics contained in this manual are believed to be correct and accurate as at the date of publication or revision. However, no representation or warranty with respect to such correctness or accuracy is given or implied and The Manufacturer will not, under any circumstances, be liable to any person or corporation for any loss or damages incurred in connection with the use of this manual. The information, figures, illustrations, tables, specifications, and schematics contained in this manual are subject to change without notice.

Unauthorised modifications to the fire detection system or its installation are not permitted, as these may give rise to unacceptable health and safety hazards.

Any software forming part of this equipment should be used only for the purposes for which The Company supplied it. The user shall undertake no changes, modifications, conversions, translations into another computer language, or copies (except for a necessary backup copy). In no event shall The Manufacturer be liable for any equipment malfunction or damages whatsoever, including (without limitation) incidental, direct, indirect, special, and consequential damages, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss, resulting from any violation of the above prohibitions.

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**Section 1**

**Introduction**

In accordance with BS5839 part 1; training on the operation of the Sigma ZXT Extinguishant Control Panel should be provided to the end user as part of the commissioning and handover. In addition to training, the following document provides a convenient reference point for Control Panel status indications, controls and actions.

## Section 2

## Control Panel Operation

## Manual Only Mode

Manual Only mode will prevent the release of extinguishant being activated by automatic detection devices. Panel will indicate as follows:



- Mode key-switch will be in the Manual position
- Manual LED will be illuminated
- LCD will display panel status as Manual mode.

### EXTINGUISHANT RELEASE CAN ONLY BE INSTIGATED BY MANUAL INTERVENTION

## Auto Mode

In Auto mode extinguishant release can be instigated by either automatic detection devices or manual intervention:

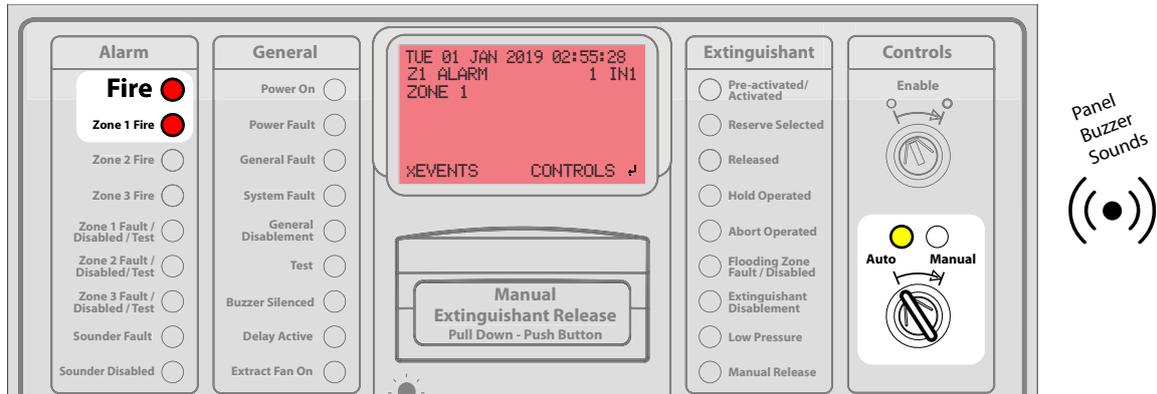


- Mode key-switch will be in the Auto position
- Auto LED will be illuminated
- LCD will display panel status as Auto & Manual mode.

### EXTINGUISHANT RELEASE CAN BE INSTIGATED BY AUTOMATIC DETECTION OR MANUAL INTERVENTION

## Zone Fire – Automatic Detection

Automatic detection zones which are not configured to activate the extinguishant release will indicate a general fire condition when activated. A zonal fire will show the following indications:



- Mode Key-switch will be in the Auto position and the accompanying LED will be illuminated
- Fire LED and relevant Zone Fire LED's will be illuminated
- Panel buzzer will sound urgently
- LCD will display detailed fire information

### FOLLOW SITE FIRE PROCEDURE

## Zone Fire – Manual mode

In manual mode the ZXT panel will only activate the extinguishant release sequence by manual activation. Zonal fires triggered by automatic detection devices will activate a general alarm condition but will not activate the automatic extinguishant release sequence, regardless of panel configuration. Zonal fires in Manual Mode will indicate as follows:



- Mode Key-switch will be in the Manual position and Manual LED will be illuminated
- Fire LED and relevant Zone Fire LED's will be illuminated
- Panel buzzer will sound urgently
- LCD will display detailed fire information

### FOLLOW SITE FIRE PROCEDURE

## 1st Stage Extinguishant Release – Automatic Activation

Zonal fires can be configured to activate the 1st Stage of an automatic gas release, this is indicated differently to a general fire condition. 1st stage extinguishing release triggered by automatic detection devices will display the following indications:



- Mode key-switch will be in Auto position with Auto LED illuminated
- Fire LED and relevant Zone Fire LED's will flash
- Pre-activated/Activated LED will flash
- Panel buzzer will sound urgently
- LCD will display detailed fire information

### 1st STAGE OF AUTOMATIC EXTINGUISHANT RELEASE ACTIVATED

**Note:** Extinguishant gas will not be released until the 2nd stage extinguishant release activations are met or manual release is operated.

## 2nd Stage Extinguishant release – Automatic Activation

In automatic mode a combination of zonal fires can be configured to provide co-incidence alarms and activation of the 2nd stage of the extinguishing release sequence – Automatic extinguishant release imminent. A 2nd stage extinguishing release triggered by automatic detection devices will display the following indications:



- Mode key-switch will be in Auto position with Auto LED illuminated
- Fire LED and relevant Zone Fire LED's will be illuminated
- Pre-activated/Activated LED will be illuminated
- Panel buzzer will sound urgently
- LCD will display extinguishant release countdown timer

**2nd STAGE OF AUTOMATIC EXTINGUISHANT RELEASE HAS BEEN ACTIVATED  
EXTINGUISHANT RELEASE IS IMMINENT  
EVACUATE AREA IMMEDIATELY AND FOLLOW SITE PROCEDURE**

## Extinguishant Gas Released - Automatic

The control panel will indicate confirmation following a successful extinguishant release. If extinguishant release has been activated by automatic detection the panel will indicate as follows:



- Fire LED and relevant zone LEDs will be illuminated
- Pre-activated/Activated LED will be illuminated
- Released LED will be illuminated
- Panel buzzer will sound urgently
- LCD will display extinguishant released message after countdown

**EXTINGUISHANT HAS BEEN RELEASED DO NOT ENTER RISK AREA**

**FOLLOW SITE PROCEDURES**

## 2nd Stage Extinguishing Release – Manual Activation

2nd stage extinguishing release sequence can be activated at any time through Manual intervention i.e. operation of an Extinguishant Release push-button or Manual Release call point. Manual activation will bypass the 1st Stage Extinguishing Release and activate the 2nd Stage of Extinguishant Release. The panel will indicate as follows:

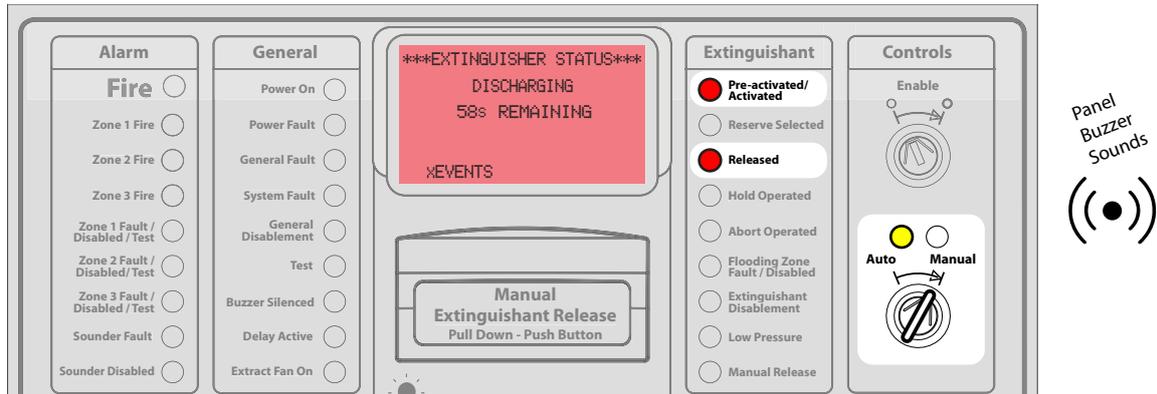


- Pre-activated/Activated LED will be illuminated
- Manual release LED will be illuminated
- Panel buzzer will sound urgently
- LCD will display extinguishant release countdown timer

**2nd STAGE OF AUTOMATIC EXTINGUISHANT RELEASE HAS BEEN ACTIVATED – EXTINGUISHANT RELEASE IS IMMINENT. EVACUATE AREA IMMEDIATELY AND FOLLOW SITE PROCEDURE**

## Extinguishant Gas Released - Manual

The control panel will indicate confirmation following a successful extinguishant release. If extinguishant release has been activated by automatic detection the panel will indicate as follows:

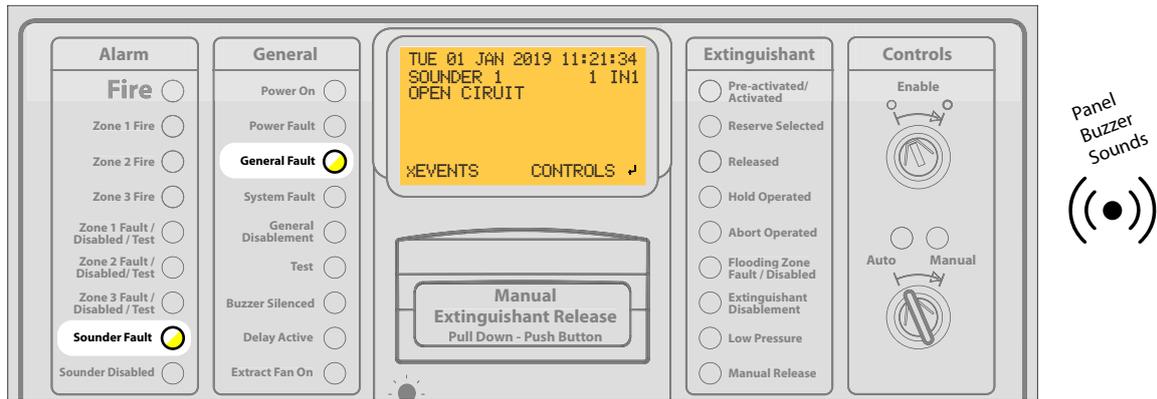


- Pre-activated/Activated LED will be illuminated
- Manual Release LED will be illuminated
- Released LED will be illuminated
- Panel buzzer will sound urgently
- LCD will display extinguishant released message

**EXTINGUISHANT HAS BEEN RELEASED DO NOT ENTER RISK AREA  
FOLLOW SITE PROCEDURES**

## Fault Condition

The control panel will indicate active fault conditions as:



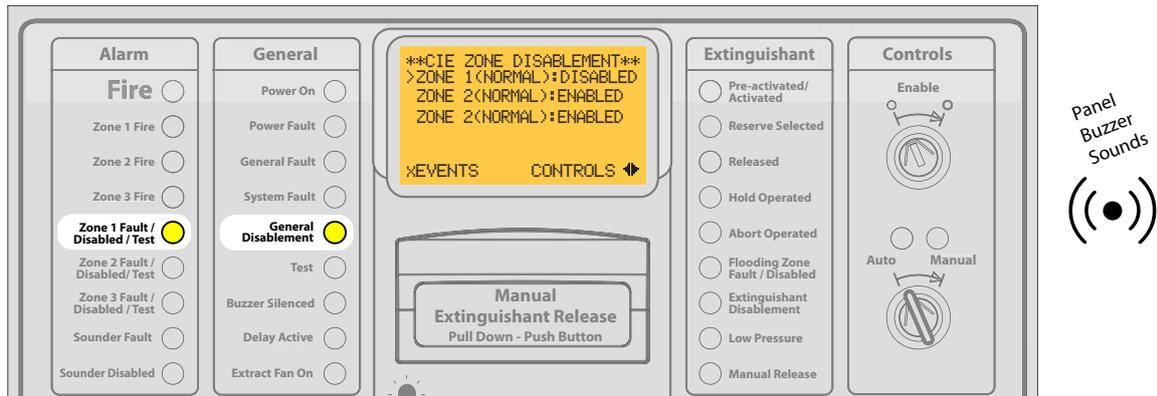
- General Fault LED will be illuminated
- Specific fault LED will illuminate i.e. Sounder fault, Power fault etc.
- Buzzer will sound continuously
- LCD screen will display detailed fault information

**CALL MAINTENANCE ENGINEER URGENTLY**

**Note: Active fault conditions can prevent successful operation of the system and must be dealt with quickly**

## Disabling

During maintenance and testing users can disable functions on the panel to prevent false activations, evacuations etc. Disabling will be indicated as follows:



- General Disabling LED will be illuminated
- Specific Disabling LED will illuminate indicating the function/circuit that is disabled i.e. Zone 1 disabled, Sounder disabled etc.
- Buzzer will sound continuously
- LCD will display the current active state of the zone. Inside the brackets this will be:

(NORMAL) - No active faults or fires on zone

(FAULT) - An Active fault exists on the detection zone. Enabling a zone with an active fault will activate the fault condition for that zone.

(IN FIRE) - An active fire exists on the on the detection zone. Enabling a zone with an active fire condition will activate a fire event for that zone triggering all associated fire cause and effects.

### Important safety information!!

The status of detection zones must be checked before enabling any detection zones, it must be ensured the zone status in the brackets shows (NORMAL) before enabling. A panel reset should be completed prior to enabling to clear any active latched alarm or fault conditions. If the zone status remains in fire or fault state after a reset the condition will need to be addressed on the zone itself i.e. clear smoke from detector, repair fault.

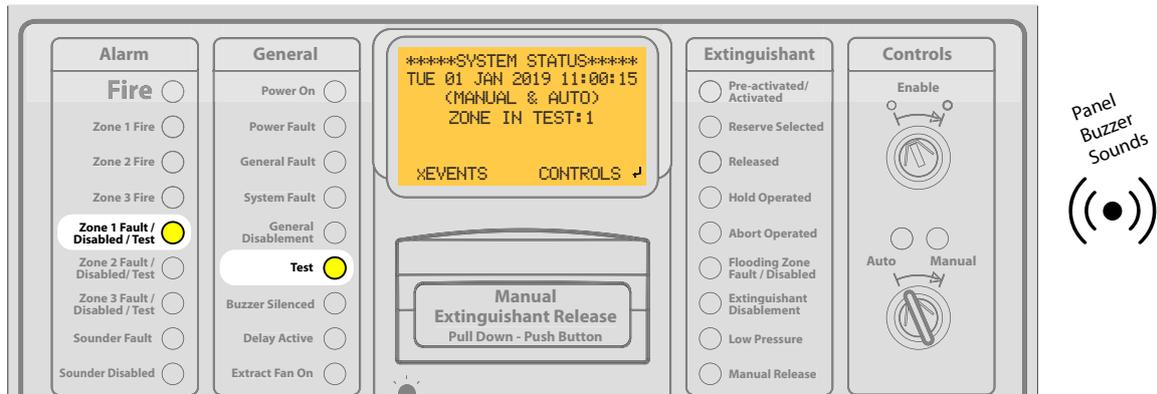
### VIGILANCE MUST BE MAINTAINED DURING DISABLING PERIODS

**Note:** Disabling should be cleared as soon as the reason for disabling has completed.

## Test Mode

Test mode allows automatic detection devices connected to the zones to be tested without activating the system.

Test mode will be indicated as follows:



- Test LED will be illuminated
- Zone Test LED for the relevant zone will be illuminated
- Buzzer will sound continuously
- LCD screen will display detailed test information

**ENSURE TEST MODE IS CLEARED ONCE TESTING IS COMPLETE**

## Section 3

### How to...

The following Section provides information on how to perform common Panel functions.

#### View Active Events

When multiple active events exist on the panel the view active events function allows the user the ability to scroll through details of each active event.

In access level 1 press the 'X' key, in USER MENU (Access Level 2) select the VIEW ACTIVE EVENTS menu option

1. The VIEW ACTIVE EVENTS screen provides a synopsis of how many active events of each type exist on the panel.
2. Use the up/down cursor keys to select the event type to view and press enter key.
3. Details of each of the active events of the type selected can be scrolled through using the up/down cursor keys.

#### View Event Log

The panel stores up to 1000 events within its memory these events can be scrolled through on the screen, providing diagnostic information:

1. Enter USER MENU (Access Level 2) using passcode or enable key switch.
2. Select EVENT LOG FUNCTIONS menu option.
3. Alarm counter screen will be displayed, with the text at the top DISPLAY ON SCREEN. Press enter to view events on screen.
4. Use the up/down cursor keys to scroll through event log events on the LCD.
5. To filter event types use the left/right arrows.

Note: The EVENT LOG FUNCTIONS screen also shows an alarm counter, indicating how many alarms have been activated on the control panel.

#### Put a Detection Zone Into Test Mode

Test Mode enables automatic detection devices connected to zones to be tested without the risk of activating an extinguishant. During test any alarms activated will be indicated on the Control Panel but no operations will be actioned.

To place a zone in Test mode:

1. Enter USER MENU (Access Level 2) using passcode or Enable key switch.
2. Select TEST menu option.
3. Use up and down cursor keys to highlight zone to put into Test.
4. Use left/right cursor keys to change zone setting to read IN TEST.
5. Zonal test and general Test LEDs will be illuminated.

Once testing is complete zone can be returned to NORMAL mode using the same menu setting.

## Disable a Detection Zone

Allows disablement of automatic detection zones during periods of maintenance, hot works etc. which could cause an unwanted activation.

To disable a zone:

1. Enter USER MENU (Access Level 2) using passcode or enable key switch.
2. Select ENABLE/DISABLE menu option.
3. Select CIE ZONES menu option.
4. Use the up/down cursor keys to highlight the zone to be disabled.
5. Use left/right cursor keys to toggle setting to DISABLED.
6. Relevant Zone disablement LED and General Disablement LEDs will illuminate.

The disabled zone can be returned to normal operation using the same menu setting and changing the setting to ENABLE.

**Warning!! Disabled zones will not activate any alarm conditions. Do not enable zones which have active fire or fault conditions. The "CIE ZONE DISABLEMENT" displays the active state of disable zones in brackets.**

**It is recommended to perform a panel reset and ensure status of the zone on the "CIE ZONE DISABLEMENT" screen shows "(NORMAL) before enabling.**

## Disable Extinguishant Release Output

Allows disabling of the extinguishant release output during periods of maintenance, hot works etc. which could cause an unwanted activation:

1. Enter USER MENU (Access Level 2) using passcode or Enable key-switch.
2. Select ENABLE/DISABLE menu option.
3. Select ECD SUBSYSTEM menu option.
4. Use up/down cursor keys to select EXTING RELEASE.
5. Use left/right cursor key to change setting to DISABLED.
6. General disablement, Extinguishing Disablement and Flooding Zone Fault/Disabled LEDs will illuminate.

To enable the extinguishing release output return to menu setting and toggle setting back to ENABLED.

**Warning!! Alarms and countdowns will operate as normal during disablement of the extinguishing release output however extinguishing output(s) will not operate and extinguishant will NOT be released.**

## Disable Manual Release Function

Allows disabling of the manual extinguishant release push-button and manual release inputs on the extinguishant system to prevent manual activation of an extinguishant release.

1. Enter USER MENU (Access Level 2) using passcode or enable key switch.
2. Select ENABLE/DISABLE menu option.
3. Select ECD SUBSYSTEM menu option.
4. Use up/down cursor keys to select ALL MANUAL RELEASE.
5. Use left/right cursor key to change setting to DISABLED.
6. General disablement and Flooding Zone Fault/Disabled LEDs will illuminate.

To enable the Manual Release function output return to menu setting and toggle setting back to Enable.

**Warning!! Manual activation of the extinguishing is not possible during a manual release function disablement. Extinguishant release can still be triggered via automatic detection devices.**

## Disable Relay Outputs

Allows disabling of panel relay outputs, during periods of maintenance or testing to prevent unwanted signalling.

1. Enter USER MENU (Access Level 2) using passcode or Enable key-switch.
2. Select ENABLE/DISABLE menu option.
3. Select RELAYS menu option.
4. Use up/down cursor keys to select the relay output to disable.
5. Use left/right cursor key to change setting to DISABLED.
6. General Disablement LED will illuminate.

To enable relay outputs return to menu setting and toggle setting back to ENABLED.

**Warning!! Disablement of relay outputs will prevent any remote signalling or activation of remote equipment.**

## Disable Sounder Outputs

Allows disabling of sounder outputs, during periods of maintenance or testing to prevent unwanted activations.

1. Enter USER MENU (Access Level 2) using passcode or Enable key-switch.
2. Select ENABLE/DISABLE menu option.
3. Select SOUNDERS menu option.
4. Use up/down cursor keys to select DISABLE ALL or select a specific sounder from the list.  
Note: DISABLE AL will disable only sounder outputs listed on the LCD.
5. Use left/right cursor key to toggle setting of the selected option.
6. General Disablement and Sounder Disable LED will illuminate.

To enable sounder outputs return to menu setting and toggle setting back to enabled state.

**Warning!! Disablement of sounder outputs will prevent any notification of alarms to personnel within the risk area.**

## Disable Monitored Inputs

Allows disabling of monitored outputs, during periods of maintenance or testing to prevent unwanted activations.

1. Enter USER MENU (Access Level 2) using passcode or Enable key-switch.
2. Select ENABLE/DISABLE menu option.
3. Select MONITORED INPUTS menu option.
4. Use up/down cursor keys to highlight the input to disable.
5. Use left/right cursor key to change setting to DISABLED.
6. General Disablement and Flooding Zone Fault/Disabled LED will illuminate.

To enable monitored inputs return to menu setting and toggle setting back to ENABLED.

**Warning!! Disablement of monitored inputs will prevent the inputs from being activated, any functions associated with the input will not operate.**

## Disable Panel Inputs

Allows disabling of non-monitored panel inputs, during periods of maintenance or testing to prevent unwanted signalling.

1. Enter USER MENU (Access Level 2) using passcode or Enable key-switch.
2. Select ENABLE/DISABLE menu option.
3. Select PANEL INPUTS menu option.
4. Use up/down cursor keys to select the input to disable.
5. Use left/right cursor key to change setting to DISABLED.
6. General Disablement and any other associated Disablement LEDs will illuminate.

To enable panel inputs return to menu setting and toggle setting back to ENABLED.

**Warning!! Disablement of relay outputs will prevent any remote signalling or activation of remote equipment.**

## Enable Sounder Delay

Function allows the option to delay or not delay activation of 1<sup>st</sup> Stage Sounder Outputs S1 and S2 when an alarm is activated on the Panel. The delay period must be programmed in the ENGINEERING MENU (Access Level 3) by a qualified engineer.

1. Enter USER MENU (Access level 2) using passcode or Enable key-switch.
2. Select SOUNDER DELAY menu option.
3. Use up/down cursor keys to highlight sounder output.
4. Use left/right keys to select between IMMEDIATE and DELAYED.

Immediate –When an alarm occurs on the panel sounder outputs will operate immediately.

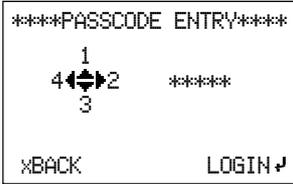
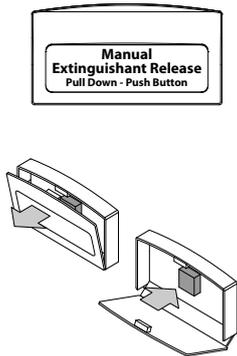
Delayed - When an alarm occurs on the panel a pre-determined delay period will pass before sounder outputs operate.

**Section 4**  
**User Controls Overview**

The following Section provides an overview of Panel controls according to user Access Level.

**User Controls - Access Level 1**

Access Level 1 allows any user basic Control Panel functionality, including the ability to initiate manual release of the extinguishant system.

<b>User Controls - Access Level 1</b>		
<b>Lamp Test</b>		<p>Press and hold lamp test button for at least 3 sec, hold button until all LEDs are checked and LCD scrolls through one full colour sequence (Red, Green, Blue). Release lamp test button to stop the test.</p>
<b>Silence Buzzer</b>		<p>Dependent on panel configuration Silence buzzer button may be available at level 1.</p> <p>Press the silence buzzer button to stop the local panel buzzer sounding. Silence buzzer LED will illuminate on panel.</p> <p>Buzzer will resound for any new events that occur.</p>
<b>Access User Menu via Passcode</b>		<p>Press the enter key to see the passcode entry screen.</p> <p>Enter the 4 digit code using the cursor keys (Up = 1, Right = 2, Down = 3, Left = 4)</p> <p>Note: Default passcode is 2222 it is recommended to change this to restrict access to approved personnel only.</p>
<b>Manual Release</b>		<p>Manual Release function manually activates the gas release sequence, it requires a dual action to prevent accidental operation.</p> <p>Pull down yellow "Manual Extinguishant Release" flap to expose red push-button</p> <p>Press red push-button, 2<sup>nd</sup> stage extinguishant release sequence will begin.</p> <p>Countdown to release will be shown on display.</p>

## User Controls - Access Level 2

Access Level 2 provides the user additional controls for operation of the Control Panel. Access Level 2 can be achieved using the Enable key-switch on the Panel fascia or by entering a passcode through the LCD.

Access Level 2 provides the user functionality which can impact the performance of the Control Panel and therefore MUST be restricted to trained personnel only.

<b>User controls – Access level 2</b> (Requires operation of enable key switch or passcode)		
<b>Enable Key-switch</b>		<p>Requires a 901 key.</p> <p>Insert key and turn to the right position (solid white dot) to access level 2.</p> <p>LCD will display the USER MENU.</p> <p>Note: Access Level 2 can also be accessed by passcode.</p>
<b>Access Level 2 via Passcode</b>		<p>Press enter key to display passcode entry screen.</p> <p>Enter 4 digit passcode using cursor keys - Up = 1, Right = 2, Down = 3, Left = 4</p> <p>Note: Default passcode is 2222 it is recommended to change this to your own specific passcode. Passcodes can be changed by a qualified service engineer.</p>
<b>Silence Buzzer</b>		<p>Dependent on Panel configuration Silence buzzer button may be available at Access Level 2.</p> <p>Press the Silence Buzzer button to stop the local panel buzzer sounding. Silence buzzer LED will illuminate on Panel.</p> <p>Buzzer will resound for any new events that occur.</p>
<b>Silence Alarm</b>		<p>Press the Silence Alarm button.</p> <p>1<sup>st</sup> stage Alarm notification devices connected to the panel will stop operating.</p> <p>Note: Silence Alarm function is applicable to 1<sup>st</sup> stage notification devices only, 2<sup>nd</sup> stage notification devices cannot be silenced.</p>
<b>Re-sound Alarm</b>		<p>Press the Re-sound Alarm button.</p> <p>1<sup>st</sup> Stage Sounders which have been silenced using the Silence Alarm button will start operating again.</p>

