

MxPro⁴



User Manual

The operation and functions described in this manual are available from Software Version Mx4100-023, Mx4200-023 and Mx4400-023 onwards.

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1 Introduction

1.1 Standards

Advanced Electronics Ltd declare that the products identified below conform to the essential requirements specified in the Construction Products Directive 89/106/EEC:

	0086-CPD-549125
EN54-2: 1997 +A1:2006 Control and indicating equipment for fire detection and fire alarm systems for buildings Provided options: - Outputs to Fire Alarm Devices - Output to Fire Routing Equipment - Output to Fault Routing Equipment - Investigation Delays to Outputs - Dependency on more than one alarm signal - Fault Signals from Points - Disablement of Points - Alarm Counter - Test Condition - Standardised Input / Output	
EN54-4: 1997 +A1:2002 +A2:2006 Power supply equipment for fire detection and fire alarm systems for buildings	
Mx-4100, Mx-4100/L, Mx-4200, Mx-4200/D, Mx-4400, Mx-4400/D, Mx-4400/LE and Mx-4800	

In addition, the products comply with the following:

Low Voltage Directive 2006/95/EC

EN60950-1: 2006

Safety of information technology equipment

Electromagnetic Compatibility Directive 2004/108/EC

EN61000-6-3:2001

Emissions, Class B

EN50130-4: 1995 +A1:1998 +A2: 2003

Immunity, Product Family Standard

1.2 Cautions and Warnings



Before commencing with installation or operation of the panel, please read this manual carefully. If you are unclear on any point **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.



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.



This Fire Alarm Control Panel is compliant with the requirements of EN54 parts 2 and 4 (1998).

Where appropriate, reference is made in this manual to the relevant sections of the EN54 standard for clarification and to ensure that the installation is compliant with the requirements of EN54.

1.3 General Description

This manual covers the use and operation of the *Mx-4100*, *Mx-4200*, *Mx-4400* and *Mx-4800* Fire Alarm Control Panels. Refer to the Installation and Commissioning Manual (Document No. 680-014) for details of how to install and program the panel.

The *Mx-4100* is a Single Loop, Analogue Addressable Fire Alarm Control Panel.

The *Mx-4200* is a Multiple Loop, Analogue Addressable Fire Alarm Control Panel with provision for up to two loops.

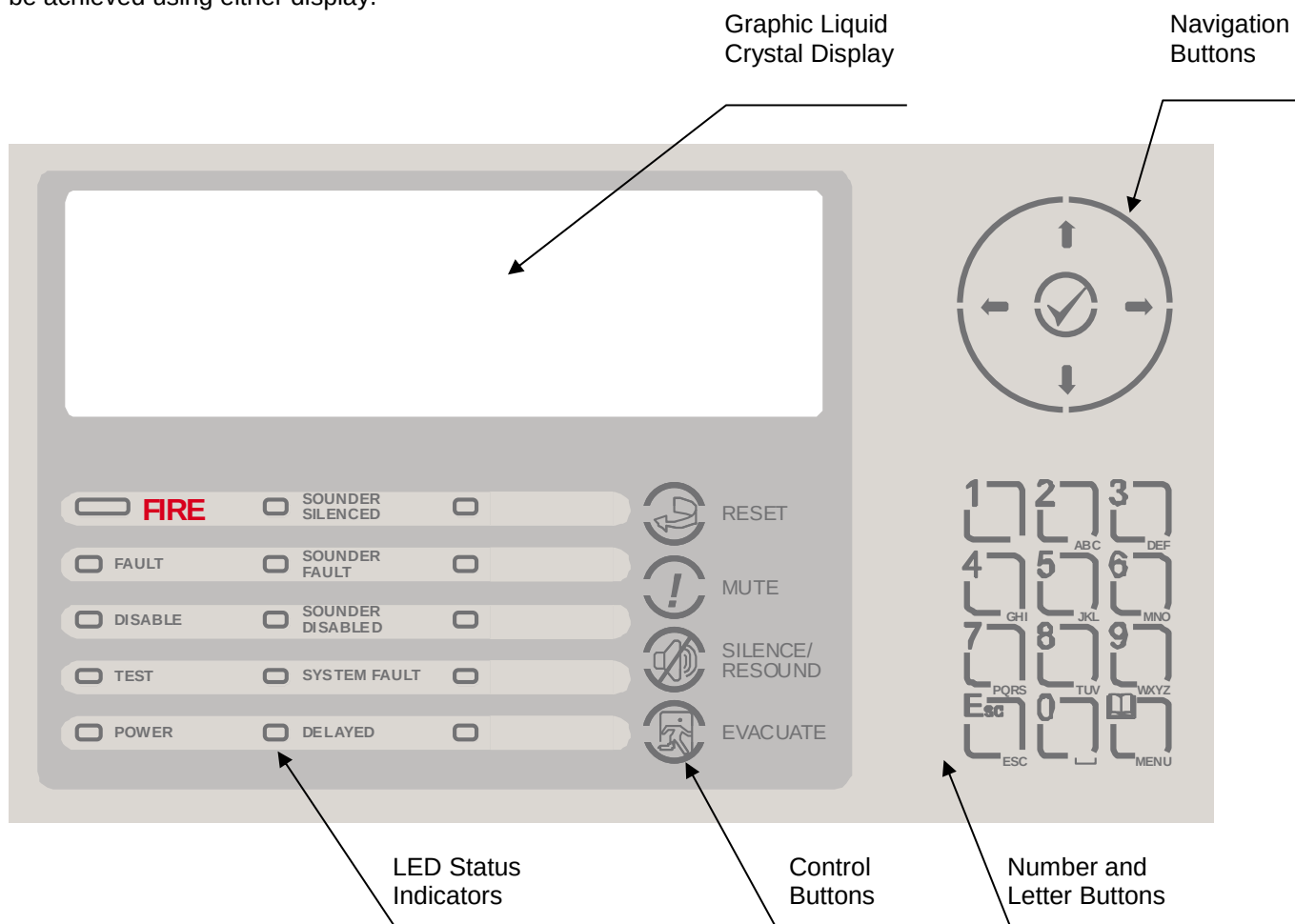
The *Mx-4400* is a Multiple Loop, Analogue Addressable Fire Alarm Control Panel with provision for up to four loops.

The *Mx-4800* is a Multiple Loop, Analogue Addressable Fire Alarm Control Panel with provision for up to eight loops.

All four panels are designed for use with the Apollo Discovery, Explorer, XP95, Series 90 and Hochiki ESP ranges of fire detection equipment.

2 Controls and Indications

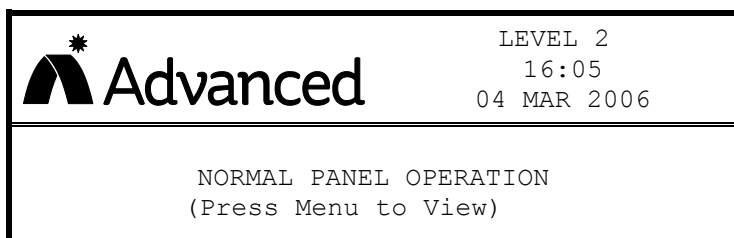
The Mx-4100, Mx-4200, Mx-4400 and Mx-4800 are provided with indications and control functions as shown in the diagram below and described in the following text. The Mx-4800 has two such display elements, one for loops 1-4 and the other for loops 5-8. Normal operator level indications, controls and user programming can all be achieved using either display.



2.1 Graphical Display

The graphical display provides detailed information of the source of fire alarms, faults and warnings. It also shows menus for use when inspecting or programming the operation of the panel.

Under normal conditions the panel display shows the access level, time, date and status: -



2.2 LED Status Indicators

The LED Status Indications show the basic operational state of the panel and whether the panel is in a fire alarm, fault, disabled or test condition.

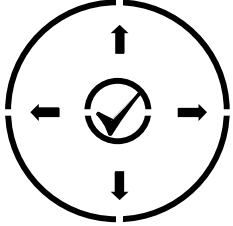
Function	Colour	Description		
FIRE	Red	Indicates that the system has detected a fire alarm condition (flashes on a new alarm and turns on steady when mute button is pressed).		
Fault	Yellow	Indicates that the system has detected a fault condition (flashes on a new fault and turns on steady when mute button is pressed).		
Disable	Yellow	Indicates that part of the system has been disable (i.e. isolated)		
Test	Yellow	Indicates that part of the system is in a test condition		
Power	Green	Indicates the presence of power		
Sounder Silenced	Yellow	Indicates that the sounders have been silenced		
Sounder Fault	Yellow	Indicates the presence of a fault in one or more sounder wiring circuits		
Sounder Disabled	Yellow	Indicates that one or more sounders have been disabled (i.e. isolated)		
System Fault	Yellow	Indicates the presence of a system fault		
Delayed	Yellow	Indicates that one or more output circuits are in a delayed operating condition		
Function 1	Red	Fire Brigade Output Activated	Or	Spare function LED
Function 2	Yellow	Fire Brigade Output Disabled	Or	Spare function LED
Function 3	Yellow	Fire Brigade Output Fault	Or	Spare function LED
Function 4	Yellow			Spare function LED
Function 5	Yellow			Spare function LED

The function LED Indicators are programmable and will have been configured and labelled accordingly during installation and commissioning of the system.

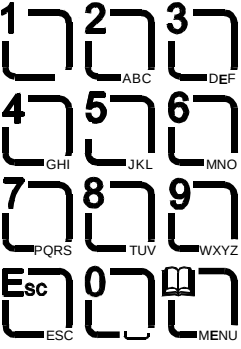
2.3 Control Buttons

	Reset Press to reset the panel from a fire alarm condition.	Only available with Level 2 Access.
	Mute Press to mute the internal buzzer.	Available in both Level 1 and Level 2
	Silence / Resound Press to silence the sounders. Press again to re-activate the sounders.	Only available with Level 2 Access.
	Evacuate Press to initiate a manual evacuation and sound the alarms.	Only available with Level 2 Access.

2.4 Navigation Buttons

	↔↕↔↕↔ Press to scroll through Menu Options. Press to display more information. Press to scroll through lists of zones or devices.
	Press to confirm entry of numeric or letter information entry. Press to confirm selection of a menu option. Press to change some of the configuration options.

2.5 Number and Letter Buttons

	Used to enter numbers or letters.
Esc	Press to return to a previous menu. Press to exit the menu functions and return to the normal display.
Menu	Press to show or return to Menu Functions.

2.6 Buzzer

The buzzer produces two different sounds to differentiate between fire alarm conditions and fault conditions.

Condition	Operation
Fire Alarm	The buzzer operates with a continuous tone.
Fault	The buzzer operates intermittently.

3 Operation

3.1 Access Levels

The panel operation is protected from inadvertent and erroneous misuse by means of four access levels. These levels are as follows:

Level 1	Untrained user
Level 2	Authorised User
Level 3	Service and Maintenance Engineer
Level 4	Service and Maintenance Engineer – Special Tools required

- A Level 1 Untrained User can view the current operational condition of the system and may MUTE the internal buzzer.
NOTE: Depending on the configuration settings, a Level 1 user may also be permitted to EVACUATE and/or SILENCE and/or RESET the system by pressing the appropriate button and entering a password.
- A Level 2 Authorised User can view the operational condition of the system and may MUTE the internal buzzer. In addition, the EVACUATE, SILENCE and RESET buttons are enabled and access to the Level 2 Menu functions is available.
NOTE: There are up to 10 User ID codes available, each with its own password, which can be configured with varying permissions to specific menu function options.
- A Level 3 User has access to program and configure the operation of the panel. This is described in detail in the Installation and Commissioning Manual (Part Number 680-014).

3.1.1 Changing from Access Level 1 to Level 2

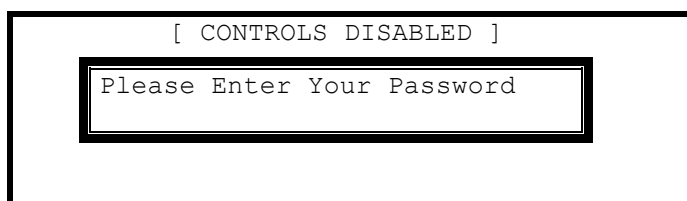
If the panel has an access key switch fitted, use the key in preference to the menu options shown below.

3.1.1.1 Menu Access

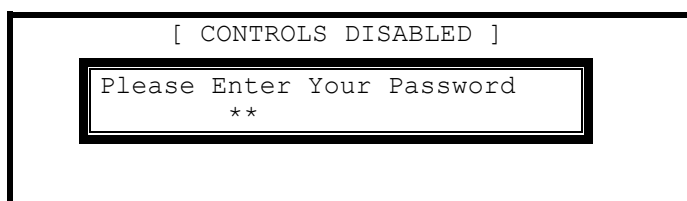
Press the 'MENU' button. The level 1 menu will be displayed as shown below:



To enable the controls, ensure the "Enable Controls" option is highlighted and then press the ✓ button. The display then requests entry of the Level 2 or 3 passwords as follows:

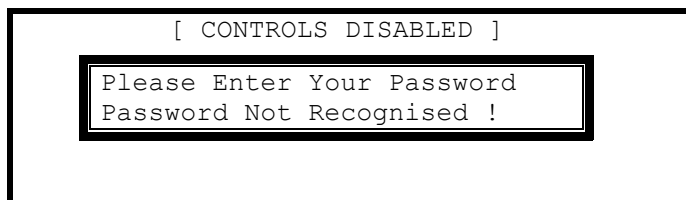


Enter the password using the number buttons and then press the ✓ button. As each number is entered, an asterisk (*) is shown on the display. For example:



If the password is correct, the Level 2 Menu options will be shown.

If the password is incorrect, the display briefly shows the following message.



3.1.1.2 Control Buttons at Level 1

If any of the control buttons (Reset, Silence / Resound or Evacuate) are pressed, the display automatically prompts for the password. Enter the password as above

3.1.2 Changing from Access Level 2 to 1

If the panel has an access key switch fitted, use the key switch.

Alternatively, if passwords are used, select the “Disablement” menu and then select “Disable/Controls” – see section 3.8.3 for details.

3.2 Fire Alarm Condition

When the system registers a fire alarm condition the Red Fire Indicator illuminates, the internal buzzer sounds (continuously) and the display shows the zone in which the fire originated. The sounders, relays and other outputs will be turned on depending on the programming in the panel. An example of the display is shown below: -

FIRE STARTED IN ZONE 0001		
BASEMENT WEST		< Location Text for First Zone
KITCHEN	<CALL POINT >	< Location Text and Type of Device
[1 Zone in Fire][Last Fire in Z0001]		< No. of Zones in Fire & Last Zone
BASEMENT WEST		< Zone Description for Last Zone

The upper part of the display shows the origin of the fire. The lower part of the display shows the number of zones in a fire alarm condition and the last zone to enter the fire alarm condition. This lower fire alarm status display is always present when the panel has registered a fire alarm condition.

If more than one fire alarm condition occurs, the total number of zones in an alarm condition and the last zone in an alarm condition will be updated on the display. If the sounders were silenced, they will sound again whenever the fire spreads to a new zone.

FIRE STARTED IN ZONE 0001. More Alarms>		
BASEMENT WEST		< Location Text for First Zone
KITCHEN	<CALL POINT >	< Location Text and Type of Device
[2 Zones in Fire][Last Fire in Z0005]		< No. of Zones in Fire & Last Zone
BASEMENT EAST		< Zone Description for Last Zone

Press the ‘**MUTE**’ button to silence the internal buzzer (the FIRE LED will change from flashing to steady illumination).

When the panel is enabled for Level 2 Access or, if configured, by entering a password at Level 1, the following functions are available.

Press the ‘**SILENCE / RESOUND**’ button to silence the sounders.

Press the ‘**SILENCE / RESOUND**’ button again to re-activate the sounders.

Press the ‘**RESET**’ button to clear the alarm condition and restore the panel to normal operation.

Press the ‘**EVACUATE**’ button to initiate a manual evacuation and to activate the sounders. The display will show this fire alarm condition. For example:

FIRE STARTED IN ZONE 0100		
MAIN RECEPTION		< Location Text for First Zone
Evacuation Key	<SWITCH >	< Confirmation of Evacuation
[1 Zone in Fire][Last Fire in Z0100]		< No. of Zones in Fire & Last Zone
MAIN RECEPTION		< Zone Description for Last Zone

3.2.1 Detailed Fire Alarm Information

Press the **↑↓** buttons to view a list of all zones in a fire alarm condition.

Zone	FIRE-LOCATION	Scroll ↓	More>	
0001	BASEMENT WEST			< List of Zones in Alarm including
0005	BASEMENT EAST			< Zone No. and location text

If more detail regarding the source of any fires is required, press the **↑↓** buttons to highlight the required zone in alarm and press the **➡** button to show further information. For example:

[FIRES IN ZONE 001]		More>	
LP ADRS	DEVICE LOCATION		< List of devices within the Zone
1	001.0 KITCHEN		< that are in Alarm
[2 Zones in Fire][Last Fire in Z0005]			< No. of Zones in Fire & Last Zone
BASEMENT EAST			< Zone Description for Last Zone

This shows that the device at address 1 on the loop initiated the fire in Zone 1. If there are more Zone 1 devices in alarm, these will be shown in the list. Press the **↑↓** buttons to scroll through the devices.

Press the **⬅** button or the **'Esc'** button to return to the previous display. If no button is pressed within 15-seconds, the display automatically reverts to the main display.

3.2.2 Investigation Delays



The Investigation Delay Function can be disabled or enabled as required by EN54: 2. Refer to Section 3.8.4.

If the Investigation Delay Function (Stage 1 / Stage 2 Investigation Delay) is enabled, a fire alarm is registered at the panel but does not immediately activate the sounders. On registering the alarm, the display shows:

FIRE STARTED IN ZONE 0001		
BASEMENT WEST		< Location Text for First Zone
KITCHEN	<TEMPERATURE>	< Location Text and Type of Device
OUTPUT DELAY 30 s	(Press 0 to extend)	< Delay Timer (Stage 1)
[1 Zone in Fire][Last Fire in Z0001]		
BASEMENT WEST		

The Output Delay Timer shows the amount of time left for investigation.

If the alarm is not acknowledged before the Stage 1 timer elapses, the panel will enter a full alarm condition and will activate the sounders.

Pressing the '0' button acknowledges the alarm. This extends the time allowed to investigate the source of the fire.

FIRE STARTED IN ZONE 0001		
BASEMENT WEST		< Location Text for First Zone
KITCHEN	<TEMPERATURE>	< Location Text and Type of Device
OUTPUT DELAY 120 s		< Delay Timer (Stage 2)
[1 Zone in Fire][Last Fire in Z0001]		
BASEMENT WEST		

The cause of the alarm can now be investigated. If the alarm is a false alarm, pressing the '**RESET**' button will clear the alarm condition. This must be done before the Stage 2 timer has elapsed or the panel will enter a full alarm condition and will activate the sounders.

Note: The **EVACUATION** button will terminate the investigation delays and activate all programmed sounders.

3.3 Fault Condition

When the system registers a fault condition the Yellow Fault Indicator is illuminated, the internal buzzer sounds intermittently and the display shows the cause of the fault in more detail.

An example of the display is shown below:

ZONE 0001	DEVICE MISSING	< Location Text for First Zone
BASEMENT WEST		< Location Text and Type of Device
RESTAURANT	(MULTI.SENSOR)	
1 Zone In Fault	More>	< No. of Zones in FAULT

If more than one fault condition occurs, these will be shown on the display. If the internal buzzer was muted, it will sound again when a new fault condition is registered.

When the fault condition is corrected, the panel automatically clears the appropriate fault Status Indicators and Display information.

Press the 'MUTE' button to silence the internal buzzer (the general FAULT LED will change from flashing to steady illumination). The display then shows the current time and date and service centre telephone number along with the indication of the fault.

FOR SERVICE CALL	LEVEL 2	< Panel access level
01234 567890	16:05	< Service Call Number
	04 MAR 2006	< and Time / Date
1 Zone In Fault	More>	< No. of Zones in FAULT

To obtain more detailed information about the faults, press the ➔ button. The display then presents a list of all of the zones in a fault condition with the first fault highlighted. For example:

[2 Zones in Fault]	More>	< Number of zones in fault
ZONE LOCATION		< Zone #, Location Text for each
1 BASEMENT		< zone
100 RECEPTION		

Press the ↑↓ buttons to highlight the required fault and then press the ➔ button to show further information. For example:

[Faults in Zone 0001]	More>	
LP ADRS STATE		
1 004.0 DEVICE MISSING		< Address, fault condition

Press the ➔ button to show further information on device location, type analogue/digital values etc.

Press the 'ESC' key to return to the previous display.

If no button is pressed within a minute, the display automatically reverts to the main display.

3.4 Disablement Condition

If any zones, input devices or output devices have been disabled, the DISABLE Indicator is illuminated. In addition, the SOUNDER DISABLE Indicator is illuminated if one or more sounder circuits or devices have been disabled. The display indicates the presence of zone disablement conditions in the lower half of the display as follows:



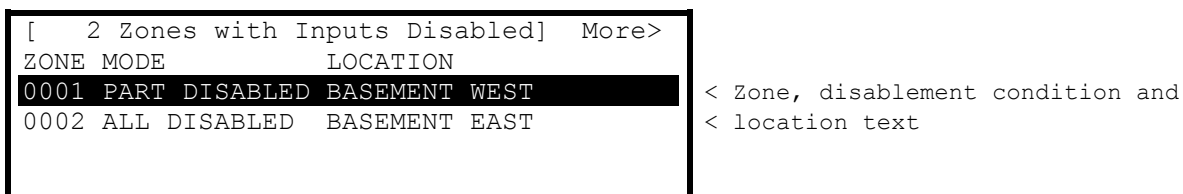
When the disablement conditions are removed, the appropriate indications are cleared from the display and from the Indicators. When all disablement conditions are removed, the DISABLE Indicator is also turned off.

To obtain more detailed information about the disablement conditions, press the ➔ button. The display will then present the disablement conditions in the following sequence:

- ◆ Zone / Individual Inputs.
- ◆ Outputs

3.4.1 Disabled Inputs

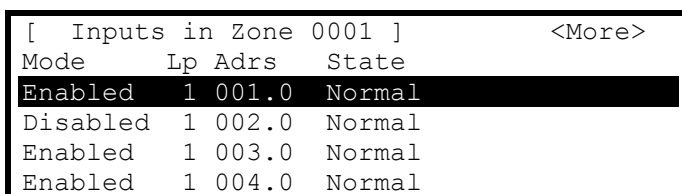
The display presents a list of all of the zones in a disabled condition with the first disablement highlighted. For example:



The display shows the status as ALL DISABLED if every input device within the zone has been disabled and shows the status as PART DISABLED if there is at least one input device within the zone still active.

Press the ⬆⬆ buttons to highlight the required zone and then press the ➔ button to view the location text assigned to the zone in full. For example:

Press the ➔ button again to view the inputs within the zone and their status. For example:



The display shows the current disablement condition (mode) for each input as either enabled or disabled. In addition, the detection loop (LP), address (ADRS) and type of input are shown. Press the ⬆⬆ buttons to scroll through the inputs.

Press the ➔ button to show further information on device location, type analogue/digital values etc.

Press the 'ESC' key to return.

If there are Outputs also disabled, these will now be shown.

3.4.2 Disabled Outputs

The display presents a list of all of the zones in a disabled condition with the first disablement highlighted. For example:

[2 Zones with Outputs Disabled] More>			
Zone	Mode	Location	
0001	DISABLED	BASEMENT WEST	
0100	DISABLED	RECEPTION	

< Zones with location text where
< outputs are disabled

Press the $\uparrow\downarrow$ buttons to highlight the required zone and then press the $\rightarrow$ button to view the individual outputs and their disablement condition. For example:

[Outputs in Zone 0100] More>				
Mode	Lp	Adrs	State	
Disabled	0	001.0	Off	Sounder A
Disabled	0	001.1	Off	Sounder B
Enabled	0	011.0	*Off	Relay 1
Enabled	0	004.0	Off	Relay 2

The above example shows that the panel sounder circuits are disabled.

A * symbol preceding the state (e.g. *Off) indicates the device has been configured as an inverted output (e.g. a fault relay that is designed to de-energise when a fault occurs).

Press the $\uparrow\downarrow$ buttons to scroll through the list of individual outputs within the selected zone. Press the 'Esc' button to return to previous views and the main display.

3.5 Alarm Condition

When the system registers a pre-alarm or plant alarm condition, the internal buzzer sounds intermittently and the display shows the cause of the fault in more detail. An example of the display is shown below:

ZONE 0001		PRE-ALARM		
BASEMENT WEST				< Location Text for First Zone
RESTAURANT		(MULTI.SENSOR)		< Location Text and Type of Device
1 Zone		In Alarm		More> < No. of Zones in Alarm

To obtain more detailed information about the alarms, press the $\rightarrow$ button. The display then presents a list of all zones in an alarm condition.

3.6 Menu Functions

The following Menu Functions are available at Level 2. The display shows the primary Level 2 Menu and the Level 2 User as follows:

[Level 2 Menu]		User 1 Node 1
VIEW	DISABLE	ENABLE
TEST	PRINT	COMMISSION
	STATUS	

The following table gives a list of the Level 2 Menu Functions, the sub-functions available within each main function and a brief description for each function.

Main Menu Option	Sub Menus	Comments
VIEW	Fires	View Zones and Inputs that are reporting a fire alarm condition.
	Faults	View Zones and Inputs that are reporting a fault condition.
	Alarms	View Zones and Inputs that are reporting an alarm condition.
	Disabled	View Zones, Inputs and Outputs that are disabled.
	Inputs	View the current state of Inputs.
	Outputs	View the current operational condition of all output circuits / devices.
	Log	View the Event Log / Alarm Counter
	Panel	View the operational state, voltage and current loading of the panel input and output circuits.
	Network	View Network diagnostics
DISABLE	Zone / Inputs ¹	Disable a complete zone or an individual input.
	Outputs ¹	Disable sounder outputs or other devices.
	Controls ²	Cancel Level 2 access.
	Delay-Mode	Turn off the Stage 1 / Stage 2 Investigation Delay Operation
	User ID ²	Return Level 2 access to the default User 1
	Groups	Disable a user-defined disablement group
ENABLE	Zone / Inputs	Enable a complete zone or an individual input.
	Outputs	Enable sounder outputs or other devices.
	Groups	Enable a user-defined disablement group
	Delay-Mode	Turn on the Stage 1 / Stage 2 Investigation Delay Operation
	Change-Time ¹	Allows authorised level 2 users to change time.
	Remote	Permits remote access controls
TEST	Zones ¹	Configure one or more zones for walk test.
	Display	Test the Graphics Display, Status Indicators and Keyboard.
	Buzzer	Test the Internal Buzzer
	Printer	Test the connection to the Printer
	Outputs	Test Output Devices
PRINT	Inputs	Print the status of inputs
	Outputs	Print the status of outputs
	Faults	Print the fault conditions
	Disabled	Print the disabled conditions
	Log	Print the Event Log. (All Events of Fire Only Events Selectable).
	Feed Paper	Advance the paper in the printer
	Set-up ¹	Configure the printer connection and automatic print options
STATUS	--	Returns the display to the normal operating display without waiting for the timeout
COMMISSION	---	Enter the Level 3 Commissioning and Panel Programming Functions

¹ This option can be configured per Level 2 User ID. User 1 does not have permission to change these options.

² Not required if a key switch is fitted to change access levels.

3.6.1 Using the Buttons to Navigate Menus

Press the **'Menu'** button to bring up the display menu.

3.6.1.1 Selecting Menu Options

The Level 2 Menu is shown below:

[Level 2 Menu]		User 1 Node 1
VIEW	DISABLE	ENABLE
TEST	PRINT	COMMISSION
	STATUS	

Press the **←↑↓→** buttons to highlight the required menu option and then press the **✓** button to select it.

For example, press the **→** button followed by the **↓** button to highlight the PRINT option (as shown below) and then press the **✓** button to select this option.

[Level 2 Menu]		User 1 Node 1
VIEW	DISABLE	ENABLE
TEST	PRINT	COMMISSION
	STATUS	

Press the **'Esc'** button from within a menu option to return to the previous menu.

Press the **'Esc'** button from the Main Level 2 Menu (shown above) to return to the normal operating display.

If a button is not pressed for one minute (15-seconds if the panel is in a fire alarm condition) the display will automatically revert to the normal operating display. Press the **'Menu'** button to return directly to the Level 2 Menu display previously shown.

3.6.1.2 Selecting Individual Zone Numbers

When the display is showing a list of Zone Numbers, it is possible to select a specific zone number by using the number keys. For example, if the display is showing a list of zones:

[Inputs]		More>
Zone	Mode	Location
0001	Enabled	BASEMENT WEST
0002	Enabled	BASEMENT EAST
0008	Enabled	GROUND FLOOR
0009	Enabled	MAIN RECEPTION AREA

To select a particular Zone, move to the zone number column. The existing zone number will then be highlighted.

Enter the required Zone Number using the number buttons, for example 12.

[Inputs]		More>
Zone	Mode	Location
# 12	Enabled	BASEMENT WEST
0002	Enabled	BASEMENT EAST
0008	Enabled	GROUND FLOOR
0009	Enabled	MAIN RECEPTION AREA

Finally press the **✓** button to confirm. The display will then show a new list of Zones with the selected Zone highlighted at the top of the list.

If the number is entered incorrectly, press the **'Esc'** button.

3.7 Viewing

[View Menu]			User 1 Node 1	
FIRES	FAULTS	ALARMS	DISABLED	LOG
INPUTS	OUTPUTS	PANEL	NETWORK	LOGIC

Note that Fires, Faults, Alarms and Disablements are all normally shown without having to select the view menu. If, however, you wish to manually View any of these, they can be selected from this menu as required.

3.7.1 View - Fires

This function shows the Zones and Inputs that are currently in a Fire Alarm condition.

The operation of the panel and the information that can be shown is identical to the views available from the main operating display. Refer to Section 3.2 for further information.

If there are no Zones or Inputs in a Fire Alarm condition, the display automatically reverts to the Main View Menu.

3.7.2 View - Faults

This function shows the Zones, Inputs and Outputs that are currently in a Fault condition.

The operation of the panel and the information that can be shown is identical to the views available from the main operating display. Refer to Section 3.3 for further information.

3.7.3 View - Alarms

This function shows the Zones and Inputs that are currently in an Alarm condition. These may occur if:

- ◆ The Zone or Input is currently in a Fire Test condition and / or
- ◆ Inputs that are configured to generate an alarm or pre-alarm condition when operated are active.

The operation of the panel and the information that can be shown is identical to the views available from the main operating display.

3.7.4 View - Disabled

This function shows only Inputs and Outputs that are currently in a Disabled condition.

The operation of the panel and the information that can be shown is identical to the views available from the main operating display. Refer to Section 3.4 for further information.

If there are both Inputs and Outputs in a Disabled condition, the display presents the inputs first, followed by the outputs.

If there are no Inputs or Outputs in a Disabled condition, the display does not change and continues to show the Main View Menu.

3.7.5 View - Inputs

This function shows the current operational condition for all Zones and Individual Inputs. The display presents a list of all of the zones containing input devices, with the first zone highlighted. For example:

[Inputs]			More>
Zone	Mode	Location	
0001	Enabled	BASEMENT WEST	
0002	ALL DISABLED	BASEMENT EAST	
0008	Enabled	GROUND FLOOR	
0009	Enabled	MAIN RECEPTION AREA	

Press the **↑↓** buttons to highlight the required zone and then press the **➔** button to view the full location text

Press the **➔** button again to view the inputs within the zone and their status. For example:

[Inputs in Zone 0008]					<More>
Mode	Lp	Adrs	State		
Enabled	1	001.0	Normal		
Disabled	1	002.0	Normal		
Enabled	1	003.0	Normal		
Enabled	1	004.0	Normal		

The display shows the current disablement condition (mode) for each input as either enabled or disabled. In addition, the detection loop (Lp), address (Adrs) and input state are shown.

Press the **↑↓** buttons to scroll through the inputs.

Press the **➔** button to show further information on device location, type analogue/digital values etc.

Press the **'Esc'** button to return to previous view.

3.7.6 View - Outputs

This function shows the current operational condition for all Outputs.

[Outputs]			More>
Zone	Mode	Location	
0008	ENABLED	GROUND FLOOR	
0100	ENABLED	MAIN RECEPTION	

Press the **↑↓** buttons to highlight the required zone and then press the **➔** button to view the individual outputs. For example:

[Outputs In Zone 0008]					More>
Mode	Lp	Adrs	State		
Enabled	1	032.0	Off	SOUNDER	
Enabled	1	056.0	Off	SOUNDER	
Enabled	2	011.1	*On	RELAY	
Enabled	3	026.1	Off	RELAY	

A * symbol preceding the state (e.g. *On) indicates the device has been configured as an inverted output (e.g. a fault relay that is designed to de-energise when a fault occurs).

3.7.7 View - Panel

The View Panel Option provides a diagnostic readout of the operational condition and readings for the internal panel electronic circuits. When the option is selected, the display shows a list of the circuits. For example:

[Panel Circuits]			
ITEM	DESCRIPTION	VALUE	STATE
01.0	Sounder A	5.6V	Normal
01.1	Sounder B	5.6V	Normal
02.0	Sounder A Load	0mA	Normal
02.1	Sounder B Load	0mA	Normal

The following table lists the internal panel circuits and indicates the values that can be displayed.

Item	Description	Value Range	Normal	Possible States	
01.0	Sounder A	0V – 14V	5.5V	Normal	Open Circuit, Short Circuit
01.1	Sounder B ³				
02.0	Sounder A Load	0mA – 1000mA	⁴	Normal	Too High
02.1	Sounder B Load ³				
03.0	Battery	0V – 30V	>25.0V ⁵	Normal	Too High, Too Low
04.0	Charger	0V – 30V	27.6V	Normal	Too High, Too Low
05.0	Earth Monitor	0V – 30V	1.3V	Normal	Too High, Too Low
06.0	Aux Supply	0mA – 500mA	⁴	Normal	Too High
07.0	1 st Loop Load ⁶	0mA – 500mA	⁴	Normal	Open Circuit, Too High, Short Circuit
08.0	1 st Loop V.Out ⁶	24V – 32V	⁴	Normal	
09.0	1 st Loop V.In ⁶	24V – 32V	⁴	Normal	
10.0	Panel Switch Inputs	L/H	L	Normal	Programmable inputs
to				Normal	
10.7		L/H	L	Normal	
11.0	Relay 1	–	–	Normal	
11.1	Relay 2	–	–	Normal	
11.2	Output 1	–	–	Normal	
11.3	Output 2	–	–	Normal	

Press the   buttons to scroll through the panel internal circuits. Press the 'Esc' button to return to the main view menu.

NOTE: Additional panel circuits may be shown depending on the system configuration and installed options.

³ The MX-4400 also displays Sounders C and D.

⁴ Depends on the panel configuration, installation and current operating condition (i.e. fire alarm).

⁵ The voltage shown is the voltage of the battery as measured under full load conditions. If this voltage falls below 23.0V under full load test, the panel will indicate a Too Low condition.

⁶ Loop Load, V.Out and V.In displayed for each loop driver (2 on MX-4200, 4 on MX4400).

3.7.8 View - Log

After selecting to view the log option the display presents a pop-up window to allow selection between a view of all of the event history, a view of only the fire alarms that have occurred or a view of the fire alarm counter.



Press the $\uparrow\downarrow$ buttons to highlight the required menu option and then press the $\checkmark$ button to select it. The display then shows the appropriate list of events.

3.7.8.1 Event Log

The display will always show the most recent event to have occurred, e.g.

[View Fire Events]				Entry 0076	< Number of Highlighted Event
Time/Date	Node	Lp:Addr	Zone		
10:54:23	1	1:001.0	001		< Time, Origin and Zone
14/03/02	FIRE ALARM		64		< Date, Event and Analogue Value
BASEMENT					< Zone Text Description
ROOM 10					< Device Location Description

In the above example, the latest fire occurred (Event No. 76) at 10:54 am on March 14, 2006. This fire alarm originated at the device at address 001(Addr) on Loop 1 (Lp) on Panel No. 1 (Panel). The device was in Zone 001. The analogue value registered by the device (64) has also been recorded. The lower two lines show the zone and device location texts descriptions for ease of identification.

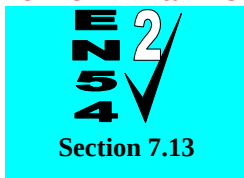
Press the $\uparrow\downarrow$ buttons to scroll through the fire alarm events logged in the system. Press the $\uparrow$ button to show more recent events and press the $\downarrow$ button to show earlier events.

To view the details for a specific Log Entry Number, it is possible to select the record by typing in the required number using the number keys.

Press the $\checkmark$ button to confirm. The display will then display the required record.

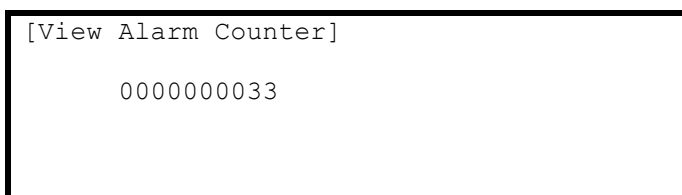
Press the 'Esc' button to return to the main view menu.

3.7.8.2 Alarm Counter



Alarm Counter.

The Panel records the number of times that the fire alarm condition has occurred at the panel.



In the above example, the panel has entered the fire alarm condition 33 times since it was installed.

The panel increments the count by one each time it changes from the normal condition to indicate a fire alarm condition. Whilst in the fire alarm condition, and until it is reset, further fire alarm events do not increment the counter.

Press the 'Esc' button to return to the main view menu.

3.7.9 View - Network

This Option can be used to obtain diagnostic information when a network is used to connect other panels or remote terminals. The access level of all panels on the network can be checked from this display:

[NETWORK - Press 0 to Clear]		More>
Node Status		
1	LOCAL	
2	Level-2	
3	Level-1	
4	-	

Additional network diagnostics are available by selecting the "More>" option.

For further information, refer to the Ad-Net network manual (Document No. 680-027).

Pressing '0' allows the stored network status information to be cleared.

3.7.10 View - Logic

This is a diagnostic aid to assist engineers when first commissioning a complex fire system.

3.8 Disabling

On selecting the Disable Menu, the display shows four possible options. For example:

[Disable]		User 1 Node 1
ZONE/INPUTS	OUTPUTS	CONTROLS
DELAY-MODE	USER-ID	GROUPS

Press the **←→** buttons to highlight the required menu option and then press the **✓** button to select it.

3.8.1 Disable - Zones and Inputs

This option provides the means to disable a complete zone, disable all input devices except call points or disable individual input devices.

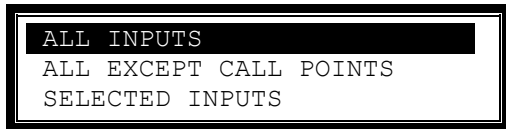
If the current User ID does not have the necessary permission, the display prompts for entry of a password to guard against inadvertent changes.

On selecting this option, the display shows a list of the current zones and their current disablement status. For example:

[0 Zones with Inputs Disabled]			More>
Zone	Mode	Location	
0001	Enabled	BASEMENT WEST	
0002	Enabled	BASEMENT EAST	
0008	Enabled	GROUND FLOOR	
0009	Enabled	MAIN RECEPTION AREA	

Press the **↑↓** buttons to scroll through the available zones, or key in a specific zone number.

To disable the entire zone, move over to the Mode column and highlight the existing mode. Press the ✓ button and a pop-up window appears showing the three possible options: -



Press the ↑↓ buttons to scroll through and highlight the required option and then press the ✓ button to select it.

If ALL INPUTS is chosen, the pop-up window disappears and the State of the Zone is changed to ALL DISABLED.

If the ALL EXCEPT CALL POINTS is chosen, the pop-up window disappears and the State of the Zone is changed to PART DISABLED (if there are actually call points in this zone) or is changed to ALL DISABLED if there are no call points within this zone.

If SELECTED INPUTS is chosen, the pop-up window disappears and a list of the input devices within the selected zone is presented. For example:

[Inputs in Zone 001]				More>
Mode	Lp	Adrs	State	
Enabled	1	001.0	Normal	
Disabled	1	002.0	Normal	
Enabled	1	003.0	PRE-ALARM	
Enabled	1	004.0	Normal	

Press the → button to more information on the inputs, including full device text, type, analogue value etc.

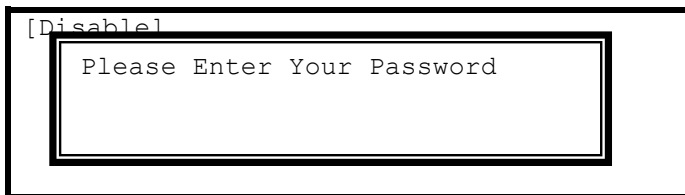
Press the ↑↓ buttons to scroll through and highlight the required input and then press the ✓ button to disable it. Pressing the ✓ button when the input is already disabled will enable the input.

Press the 'Esc' button to return.

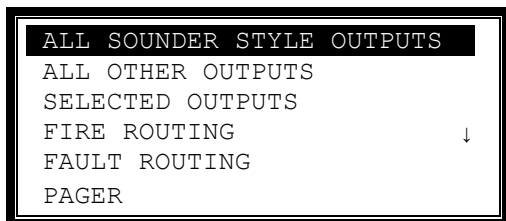
3.8.2 Disable - Outputs

The Disable Outputs Option enables the isolation of some or all of the outputs. If disabled, the outputs will not activate in the event of a fire alarm or other programmed event.

If the current User ID does not have the necessary permission, the display prompts for entry of a password to guard against inadvertent changes.



Enter the password as normal. Once a valid password has been entered, a pop-up window is shown on the display to select the type of outputs to disable. Scroll down to view / select the available options.



The selection list only contains Fire Routing, Fault Routing and Pager options if these are configured on the panel.

3.8.2.1 All Sounder Outputs

Press the $\uparrow\downarrow$ buttons to scroll through and highlight the ALL SOUNDER OUTPUTS Option and then press the $\checkmark$ button to disable them. The display automatically reverts to the Main Disable Menu.

The 'Sounder Disabled' Indicator will be illuminated.

On networked systems, this only disables the outputs connected to this panel.

3.8.2.2 All Other Outputs

Press the $\uparrow\downarrow$ buttons to scroll through and highlight the ALL OTHER OUTPUTS Option and then press the $\checkmark$ button to disable them. The display automatically reverts to the Main Disable Menu.

On networked systems, this only disables the outputs connected to this panel. This will disable all outputs other than sounder type outputs including the fire and fault routing outputs.

3.8.2.3 Selected Outputs

Press the $\uparrow\downarrow$ buttons to scroll through and highlight the ONLY SELECTED OUTPUTS Option and then press the $\checkmark$ button to select it. The display then shows a list of Zones containing outputs. For example:

[2 Zones with Outputs Disabled] More>		
Zone	Mode	Location
0008	ENABLED	GROUND FLOOR
0100	ENABLED	MAIN RECEPTION

Press the $\uparrow\downarrow$ buttons to scroll through and highlight the required Zone and then press the $\rightarrow$ button to view the outputs within this zone. For example:

[Outputs In Zone 0008] More>			
Mode	Lp	Adrs	State
Enabled	1	032.0	Off SOUNDER
Enabled	1	056.0	Off SOUNDER
Enabled	2	011.1	*On RELAY
Enabled	3	026.1	Off RELAY

Press the $\uparrow\downarrow$ buttons to scroll through and highlight the required Output and then press the $\checkmark$ button to change the device mode. The device mode will change from Enabled to Disabled and vice-versa.

Press the 'Esc' button to return to the Zone list and to the Main Disable Menu.

3.8.2.4 Fire Routing Output

Press the $\uparrow\downarrow$ buttons to scroll through and highlight the FIRE ROUTING OUTPUT Option and then press the $\checkmark$ button to disable it. The display automatically reverts to the Main Disable Menu.

This feature disables the output connected to this panel only.

The 'Fire Routing Disabled' Indicator will be illuminated.

3.8.2.5 Fault Routing Output

Press the $\uparrow\downarrow$ buttons to scroll through and highlight the FAULT ROUTING OUTPUT Option and then press the $\checkmark$ button to disable it. The display automatically reverts to the Main Disable Menu.

This feature disables the output connected to this panel only.

3.8.2.6 Pager

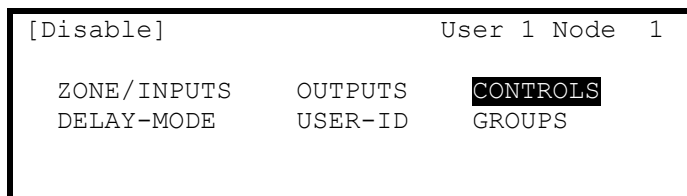
Press the $\uparrow\downarrow$ buttons to scroll through and highlight the PAGER OUTPUT Option and then press the $\checkmark$ button to disable it. The display automatically reverts to the Main Disable Menu.

This feature disables the output connected to this panel only.

3.8.3 Disable - Controls

Disabling Controls will cancel Level 2 access and return the panel to Level 1 operation.

If the panel has an access key switch fitted, use the key switch in preference to the menu option shown below.



Press the **←→** buttons to highlight the Controls option and then press the **✓** button to select it.

The display then prompts for password entry. Enter the password as normal.

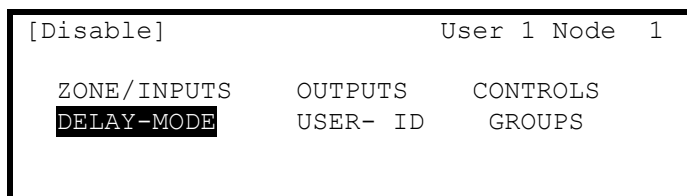
When a valid password has been entered, the control button functions and menu functions are disabled and the level 1 menu display will be shown: -



The display will automatically revert to the normal operating display after a few seconds.

3.8.4 Disable - Delay-Mode

This operation will cancel the Investigation Delay mode.



Press the **←→** buttons to highlight the Delay-Mode option and then press the **✓** button to select it.

If the delays are configured in the panel, the display shows the following pop-up window when the Disable Delay-Mode Option is selected. (Note: This delay function can only be configured using the PC Programming Tool).



Press the **✓** button to select **NO INVESTIGATION DELAYS** and disable the operation of the Stage 1 / Stage 2 Investigation Function. Otherwise, press the **ESC** to cancel and keep the investigation delays in operation.

If the investigation delays are in operation then the "Delayed" LED Indicator is illuminated. When the investigation delays are disabled and turned off, the "Delayed" LED Indicator is turned off.

Press **'Esc'** to cancel and make no change to the current operational setting.

If the delays are not configured in the panel, the display briefly shows "NOT CONFIGURED" before returning to the Disable Menu Options.

3.8.5 Disable – User ID

This operation will cancel the current User ID and return to the default User 1. User 1 can perform all actions except those defined as programmable (refer to the menu table).

[Disable]		User 5 Node 1
ZONE/INPUTS	OUTPUTS	CONTROLS
DELAY-MODE	USER-ID	

Press the $\leftrightarrow$ buttons to highlight the User-ID option and then press the $\checkmark$ button to select it.

[Disable]		User 1 Node 1
ZONE/INPUTS	OUTPUTS	CONTROLS
DELAY-MODE	USER-ID	GROUPS

NOTE: If configured to operate with a timeout and if there has been no user activity after the programmable period of time (default “No Timeout”), the panel will automatically cancel a User ID and return the panel to User 1 ID access. This is to ensure that access to restricted options is automatically cancelled.

3.8.6 Disable – Groups

Disabling Groups are a means of disabling / enabling custom groups of devices. The commands are command across the network of panels and can be invoked from any panel. The installer will have configured these groups.

If no groups exist, selection of this option will show a NOT CONFIGURED message.

Some typical examples are:

- Stage Smoke Detectors
- Floor 2 Sounders
- ALL Sounders

The display will show, for example:

[Disable Group]		User 5 Node 1
Group	Invoke	Description
1	-	Stage Smoke Detectors
2	-	Floor 2 Sounders
3	-	ALL Sounders

Press the $\updownarrow$ buttons to scroll through and highlight the required option and then press the $\checkmark$ button to disable it. The display will show that the command has been invoked (activated).

[Disable Group]		User 5 Node 1
Group	Invoke	Description
1	ok	Stage Smoke Detectors
2	-	Floor 2 Sounders
3	-	ALL Sounders

The GENERAL DISABLE and any specific disable indicators will be illuminated on the panel(s).

3.9 Enabling

On selection of the Enable Menu Option, the display shows the available Enable Functions.



Press the **←→** buttons to highlight the required menu option and then press the **✓** button to select it.

3.9.1 Enable - Zones and Inputs

Selecting this option will show a list of zones containing disabled input devices. Either the complete zone, or individual devices within the zone can then be enabled (Display format is virtually identical to the Disable displays).

3.9.2 Enable - Outputs

When this option is selected, pop-up menu appears asking if you want to enable ALL SOUNDER OUTPUTS, ALL OTHER OUTPUTS, ONLY SELECTED OUTPUTS, the FIRE ROUTING OUTPUT, the FAULT ROUTING OUTPUT or the PAGER OUTPUT. If ONLY SELECTED OUTPUTS is selected, the display will list only zones containing outputs that have been disabled. The individual outputs within the zone can then be enabled.

(The display format is virtually identical to the Disable displays).

3.9.3 Enable - Delay-Mode

This option allows the enablement of Investigation Delays and other related functions.

The Investigation Delays can be invoked as manual operation delays (Permanent and Once Only), Automatic delays (configured to run with a time clock) and Extend delays. A further option is provided to Inhibit delays for holiday periods. The options that appear in the menu depend on the installation configuration programmed by the installer.

On selection of the ENABLE DELAY option, the display will show a pop-up menu list. For example:



↓ Indicates if there are more options configured.

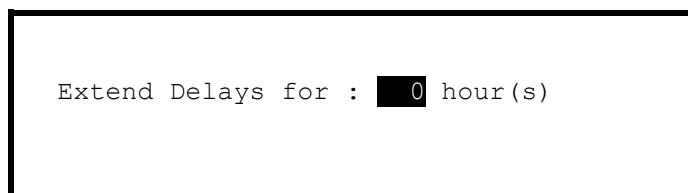
Press the **↑↓** buttons to scroll through and highlight the required option and then press the **✓** button to enable it.

The display will confirm the selection and indicate WORKING whilst it performs the operation. On completion, it reverts to the pop-up menu.

For Extended and Holiday/Inhibit, further menus are presented.

3.9.3.1 Extend Delays

To extend any current automatic delays (for example overtime working).



Use the number keys to enter the required number of hours beyond the current configured end time.

3.9.3.2 Holiday / Inhibit

The panel can be enabled to prevent any pre-programmed daily automatic delays from activating during holiday periods. On selection, the display shows:

```
[Inhibit Delay End Date]
```

```
TIME = 15:49
DATE = 02/07/08   WED 02 JUL 2008
```

Press the **↑↓** buttons to select the time / date fields. Enter the required time and date using the number buttons.

Any pre-configured automatic delays or manual delays will be immediately suspended and the panel will operate without any investigation delays.

On reaching the time / date programmed, the panel will automatically revert to use any investigation delays as programmed and configured.

3.9.4 Enable - Groups

This option allows the re-enabling of User-defined Disablement Groups. The display is identical to the disable option.

3.9.5 Enable - Change-Time

Allows the clock time to be changed.

If the current User ID does not have the necessary permission, the display prompts for entry of a password to guard against inadvertent changes.

For example:

```
[SET TIME/DATE]
```

```
TIME = 15:28
DATE = 15/04/06   SAT 15 APR 2006
```

To change the settings, use the **↑↓** buttons to highlight the required option. Directly enter the new time or date using the **number** buttons. As soon as a **number** button is pressed, the display will clear the current setting and show the new value as it is entered. For example:

```
[SET TIME/DATE]
```

```
TIME = 1█:--
DATE = 15/04/06   SAT 15 APR 2006
```

If this panel is connected to a network, ALL panels on the network will assume this new value.

3.9.6 Enable - Remote

Information on the detectors connected to the panel and on the condition of all zones can be obtained with an ipGateway interface.

In addition, the user can be assisted with operations such as disabling / enabling a detector from external commands over a TCP/IP system. In order to ensure this only happens with the consent of the user the REMOTE option must be enabled by the user.

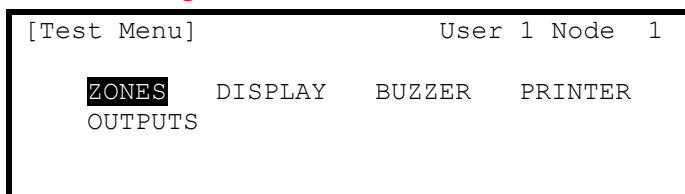
If the current User ID does not have the necessary permission, the display prompts for entry of a password to guard against inadvertent changes.

After selecting the option, a selection list is presented on the display as follows:



Use the **↑↓** buttons to highlight the required option and then press the **✓** button to confirm.

3.10 Testing



Press the **↔** buttons to highlight the required menu option and then press the **✓** button to select it.

3.10.1 Test - Zones

The Test Zones function provides the means to implement a one-person walk test in order to test specific call points or detectors in one or more zones.

If the current User ID does not have the necessary permission, the display prompts for entry of a password to guard against inadvertent changes.

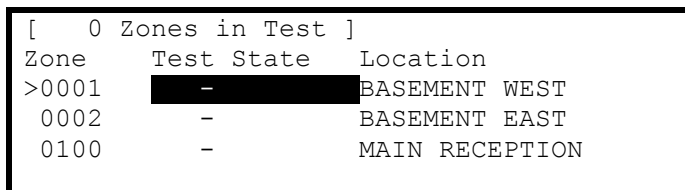
When the Test Zones option is selected, a pop-up window is shown on the display to select whether the sounders will activate (for about 10-seconds) when an input device is activated. For example:



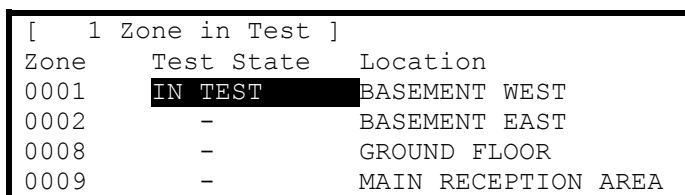
Press the **↑↓** buttons to scroll through and highlight the required option and then press the **✓** button to select it.

Note that the panel will have been programmed during commissioning to define which of the sounders are activated during a test.

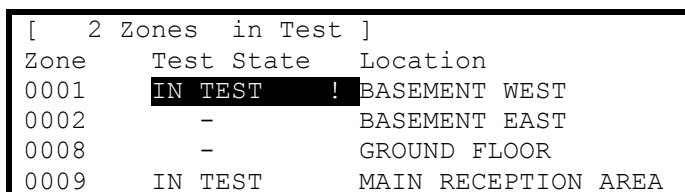
The display then shows a list of the available Zones and their current test status. For example:



Press the **↑↓** buttons to scroll through and highlight the required zone and then press the **✓** button to change the Test State. For example:



When one or more Zones are placed in a Test State, the Test Indicator will be illuminated. When an input device is activated (i.e. break glass test on a call point or introducing test smoke into a smoke detector), the bells will ring (if selected) and the display will indicate that a zone is registering a test condition by showing an exclamation mark (!) on the display.



When the activating test key is removed from the call point or the smoke clears from the detector chamber, the panel will automatically reset and clear the test condition.

As an alternative to scrolling, a specific zone number can be entered by using the **←** button to move to the zone number column, and then typing in the required number, followed by the **✓** button.

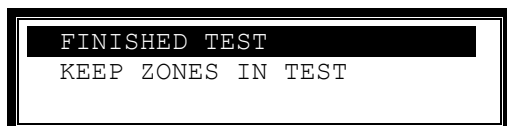
If several consecutive zones are to be tested, an alternative to selecting them all individually is to specify a range of zones as follows: -

Move to the zone number column and highlighting the first zone to test, then

Press the **✓** button – the display will then ask for the last zone to be tested.

Individual zones can then be toggled in or out of test by pressing the **✓** button.

To leave the Zone Test menu, press the **'Esc'** button. If there are still any zones in a test condition a pop-up window with the following options: -



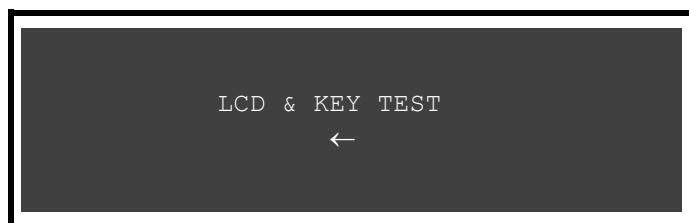
Selecting the FINISHED TEST option will cancel all zone tests. The Test LED will then extinguish.

Alternatively, it is possible to leave the Zone Test Function with one or more Zones still in Test by selecting the KEEP ZONES IN TEST option. This will enable the inspection or use of other menu functions and return the display to the normal operating mode. The Test LED will stay illuminated if this option is selected.

3.10.2 Test - Display

The Test Display option checks the operation of all the Indicators and the Graphic Display. All of the Indicators are turned on and the entire display is shown in reverse.

During this test, it is possible to test the operation of the **←,↑,↓,→,✓** and **0-9** buttons. When a button is pressed, it is indicated on the display. For example:



Press the **'Esc'** button to return to the Test Menu. If no button is pressed for 1-minute, the display will automatically revert to the normal operating display.

3.10.3 Test - Buzzer



When the Test Buzzer option is selected, the internal buzzer will sound for about five seconds.

3.10.4 Test - Printer

To invoke the printing of a test print sequence, highlight the Test Print Option and press the ✓ button to confirm. The panel transmits 16 lines of test characters to the printer. The information sent is echoed on the display.

When the test print is completed, the display automatically reverts to the Test Options Menu.

Press the 'Esc' button at any time to cancel the test print.

3.10.5 Test - Outputs

Output devices can be individually tested for operation.

To test an individual output device (sounder or relay), highlight the Test Outputs Option and press the ✓ button to confirm. The display will present a list of the zones that contain output devices.

If the current User ID does not have the necessary permission, the display prompts for entry of a password to guard against inadvertent operation.

[Outputs]	
Zone	Location
0001	BASEMENT WEST
0002	BASEMENT EAST
0037	EAST PLANT ROOM
0100	MAIN RECEPTION

Press the ↑↓ buttons to scroll and highlight the required zone (or key in the required zone number) and then press the → button to show the output devices in that zone. For example:

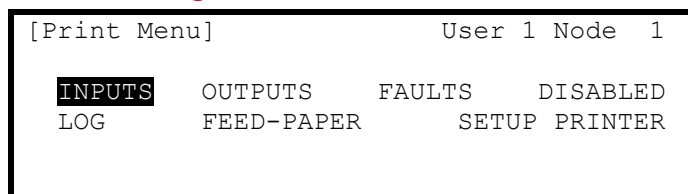
[Loop 1 Devices]		<More>	
Address	State	Type	Value
005.1	Normal	SOUNDER	-
006.0	Normal	MULTI.SENSOR	16
006.1	Normal	RELAY	-
007.0	Normal	CALL POINT	16

Press the ↑↓ buttons to scroll and highlight the required zone (or key in the required zone number) and then press the ✓ button to test the output. The display will prompt to confirm the "Test this device". Press the ✓ button again to accept. The output device will turn on and this will be confirmed on the display by the status changing from OFF to ON.

The general "TEST" LED will illuminate whenever an output is in test. The test is cancelled by either pressing the ESC button or by scrolling to the next / previous device in the list. If the display is left for one minute without pressing any buttons, the output will revert to its quiescent state.

On networked systems, the Test – Outputs option also supports testing of outputs connected to other panels.

3.11 Printing



3.11.1 Printer Communications Settings

The information is sent to the printer in a serial form. If an external printer is used, ensure that the communications settings in the printer are set as follows:

Interface Type: RS232

Baud Rate: 9600

Parity: None

Data Bits: 8

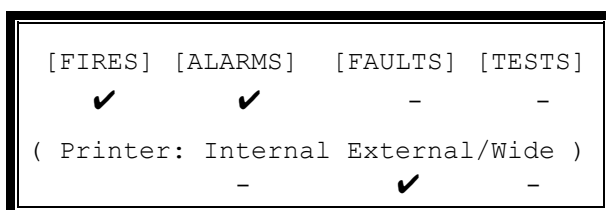
Stop Bits: 1

3.11.2 Set-up Printer

To enable or set-up the operating characteristics of the printer, highlight the Set-up Printer Option and press the ☒ button to confirm.

If the current User ID does not have the necessary permission, the display prompts for entry of a password to guard against inadvertent changes.

Enter the password as normal. The display then shows a pop-up window giving programming options as follows:



The upper line of options determines whether the panel shall automatically print specific events as they occur.

The lower line of options determines whether a printer is connected and its type.

Use the ☐, ☐, ☐, ☐ and ☒ buttons to highlight the required option and change its setting. Pressing the ☒ button turns the option on (☒ is shown) or off (- is shown) accordingly.

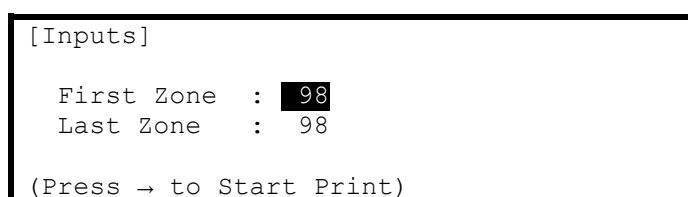
In the above option, an external printer is selected, with automatic printing of fires and alarms.

Setting the wide option will change the printing from the default 40 characters per line to 80 characters per line.

Note: Only faults registered on this panel are printed.

3.11.3 Print Inputs

To print information on any input, highlight the Inputs option and press the ☒ button to confirm. The display will show the following:



The display will prompt the zones in use on this panel. For networked systems, it is possible to select any zones used in the system. Use the arrow (☐) buttons to highlight the first and last zone number and use the number keys to change the zone number required.

Press the ➔ key to start printing.

The display will show the following whilst information is sent to the printer and printed.

```

WORKING ...

(Press Esc to Stop)

```

After all information has been printed, the display will automatically revert to the Print Menu. Press the “Esc” key to stop printing if required.

The printout will show all input points for the zones selected. Information printed includes Device Text, Zone Number, Loop and address, current status and analogue value.

3.11.4 Print Outputs

To print information on any output, highlight the Outputs option and press the ✓ button to confirm. The display will show the following:

```

[Outputs]

First Zone  : 98
Last Zone   : 98

(Press → to Start Print)

```

The display will prompt the zones in use on this panel. For networked systems, it is possible to select any zones used in the system. Use the arrow (↑↓) buttons to highlight the first and last zone number and use the number keys to change the zone number required.

Press the ➔ key to start printing.

The printout will show all output points for the zones selected. Information printed includes Device Text, Zone Number, Loop and address, current status and analogue value.

3.11.5 Print Faults

To print information on any faults, highlight the Faults option and press the ✓ button to confirm. The display will show the following:

```

[ 2 Zones in Fault]

First Zone  : 98
Last Zone   : 99

(Press → to Start Print)

```

The panel analyses the network and the display will prompt the zones in a fault condition.

Use the arrow (↑↓) buttons to highlight the first and last zone number and use the number keys to change the zone number as required.

Press the ➔ key to start printing.

The printout will show the location and state of all input and output points in a fault condition for the zones selected.

Note: If there aren't any fault conditions present then selecting this menu option will no effect.

3.11.6 Print Disabled

To print information on any disablement, highlight the Disabled option and press the ✓ button to confirm. The display will show the following depending on the disabled conditions present:

If there are zones with inputs disabled:

```
[ 2 Zone(s) with Inputs Disabled]
```

```
First Zone : 98
```

```
Last Zone : 99
```

```
(Press → to Start Print)
```

If there are zones with outputs disabled:

```
[ 1 Zone(s) with Outputs Disabled]
```

```
First Zone : 98
```

```
Last Zone : 98
```

```
(Press → to Start Print)
```

The panel analyses the network and the display will prompt the zones in a disabled condition.

Use the arrow (↑↓) buttons to highlight the first and last zone number and use the number keys to change the zone number as required.

Press the → key to start printing.

The printout will show the location and state of all input and output points in a disabled condition for the zones selected.

The display always present the zones with inputs disabled first (if any exist). After printing the inputs the display will present the information on disabled outputs (if any exist).

Note: If there aren't any disabled conditions present then selecting this menu option will no effect.

3.11.7 Print - Log

To print information from the History Log, highlight the Print Log Option and press the ✓ button to confirm. A pop-up window will be shown asking if all events, or just fires should be printed.

Highlight the required option using the ↑↓ buttons and press the ✓ button to confirm.

When the Log Print is completed, the display automatically reverts to the Print Options Menu.

Press the 'Esc' button at any time to cancel the log print.

Note: The pop-up window also allows selection of the Fire Alarm Counter. On selection, this is shown on the display but is not printed.

3.11.8 Print - Feed Paper

Highlight the Feed Paper Option and press the ✓ button to confirm. The display does not change but a command is sent to the printer to advance the paper.

Quick Reference Guide

MxPro⁴

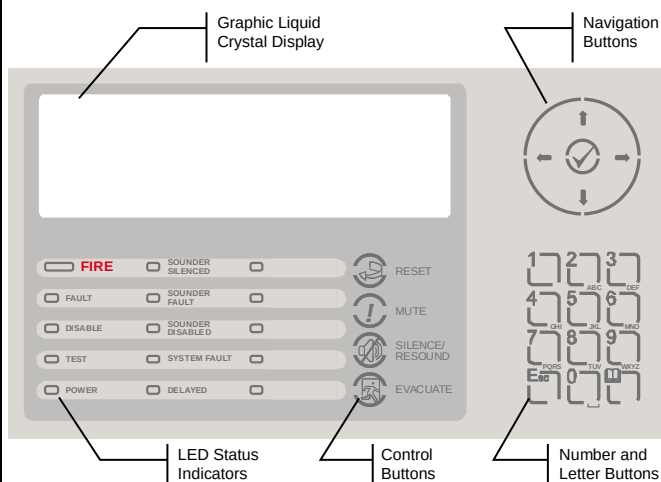
In the event of a fire alarm, call: -

TEL:

For Service & Maintenance,
contact: -

TEL:

Controls & Indications



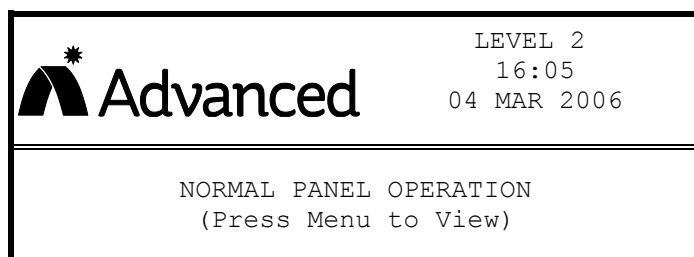
The panels may be fitted with separate zone fire indicators comprising of 20, 50, 100 or 200 red indicators – these show the zones in a fire alarm condition.

In addition, the panels may be fitted with separate indications showing the location of fire alarms in a pictorial display (mimic diagram).

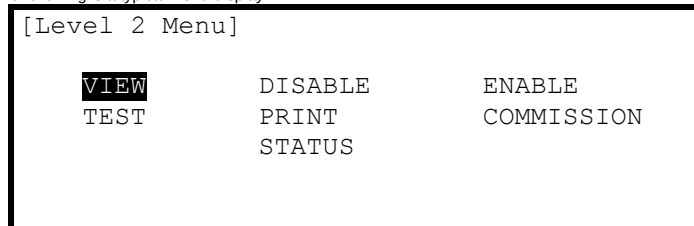
Graphic Display

The graphical display provides detailed information of the source of fires, faults and warnings. It also shows menus for use when inspecting or programming the operation of the panel.

Under normal conditions the panel display shows the time, date and status: -



The following is a typical menu display.



Refer to the User Manual (Document Number 680-015) for full operating instructions.

Navigation Buttons



Press to scroll through Menu Options.
Press to display more information.



Press to scroll through menu Options.
Press to scroll through lists of zones or devices.



Press to confirm entry of numeric or letter information entry.

Press to confirm selection of a menu option.

Press to change some of the configuration options.

Number Buttons



Used to enter numbers or letters.



Press to return to a previous menu.

Press to exit the menu functions and return to the normal display.



Press to show or return to Level 1 or Level 2 Menu Functions.

Main User functions are VIEW, TEST, DISABLE & ENABLE.

Control Buttons



Reset: Press to reset the panel from a latched condition.



Mute: Press to mute the internal buzzer.



Silence / Re-sound: Press to silence the bells. Press again to re-sound the bells.



Evacuate: Press to initiate a manual evacuation and sound the alarms.

Level 2 Access is required for Reset, Silence / Re-sound & Evacuate buttons and for programming Menu functions. Level 2 operation can be enabled using a key-switch (if fitted) or by entry of a pass-code.

LED Status Indicators

RED

Separate LED Indicators show the presence of a fire alarm condition and (if configured) that the fire brigade has been called.

YELLOW

Indicate other system operating conditions including Fault, Test and Disablement conditions.

GREEN

Indicates the presence of power to the system – if flashing, indicates that the panel is running on battery standby power.



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USER NOTES

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