

User Manual



User Manual MX-4100, MX-4200, MX-4400, Mx-4400/LE & Mx-4800 Fire Alarm Control Panels

The operation and functions described in the manual are available from Software Versions Mx4100-019, Mx4200-019 and Mx4400-019 onwards.



roduct Data Sheet

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User Manual

1 Introduction

1.1 Standards

The *Mx-4100, Mx-4200, Mx-4400, Mx4400/LE* and *Mx-4800* Fire Alarm Control Panels conform to the following standards:

BS EN54-2: 1998	Control and Indicating Equipment
BS EN54-4: 1998	Power Supply Equipment
BS EN60950: 2000	Safety of information technology equipment
BS EN50130-4: 1996	Product Family Standard

Electromagnetic Compatibility Directive 89/336/EEC (and the amending directive 92/23/EEC)

Low Voltage Directive 73/23/EEC

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.

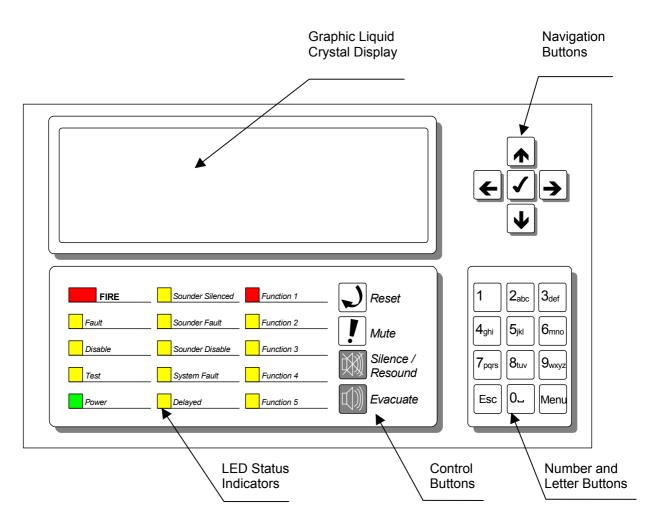
The *Mx-4400* is a Multiple Loop, Analogue Addressable Fire Alarm Control Panel with provision for up to four loops.

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

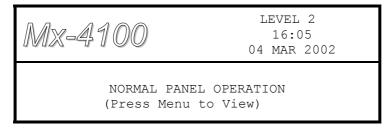
The *Mx-4100*, *Mx-4200*, *Mx-4400* and *Mx-4800* are provided with indications and control functions as shown in the diagram below and described in the following text. The *Mx-4800* has two such display elements, one for loops 1-4 and the other for loops 5-8. Normal operator level indications, controls 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	Description		
FIRE	Red	Indicates that the system has detected a fire alarm condition			
Fault	Yellow	Indicates that the system has detected	d a faul	t condition	
Disable	Yellow	Indicates that part of the system has b	been di	sable (i.e. isolated)	
Test	Yellow	Indicates that part of the system is in a	a test c	ondition	
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 the 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 circl condition	uits are	in a delayed operating	
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	Fire Protection Equipment Warning	Or	Spare function LED	
Function 5	Red	Fire Protection Output Activated	Or	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.	Only available with Level 2 Access.

	Only available with Level 2 Access.
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Press again to re-activate the sounders.

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2.4 Na	vigation 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.

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 three access levels. These levels are as follows:

- Level 1 Untrained user
- Level 2 Authorised User
- Level 3 Service and Maintenance Engineer
- A Level 1 Untrained User can view the current operational condition of the system and may MUTE the internal buzzer.
- 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.
- 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).

3.2 Changing from Access Level 1 to 2

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

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

[CONTROLS	DISABLED]
ENABLE	CONTROLS	VIEW	

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

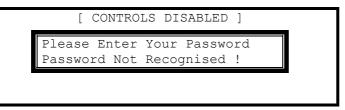
[(CONTRO	LS DI:	SABLED]		-
Please	Enter	Your	Passwor	d	
					l

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

Please Enter Your Password **	

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.



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 (The function of the control button pressed is not initiated. The button must be pressed again for the panel to action the required function).

3.3 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, call up the "Disablement" menu and select "Disable/Controls" – see section **3.10.3** for details.

3.4 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	< Location Text for First Zone
BASEMENT WEST KITCHEN	<call point=""></call>	< Location Text and Type of Device
[1 Zone in Fire][Last BASEMENT WEST	Fire in Z0001]	< No. of Zones in Fire & Last Zone < 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 BASEMENT WEST KITCHEN		< Location Text for First Zone < Location Text and Type of Device
[2 Zones in Fire][BASEMENT EAST	Last Fire in Z0005]	< No. of Zones in Fire & Last Zone < Zone Description for Last Zone

Press the 'MUTE' button to silence the internal buzzer.

When the panel is enabled for Level 2 Access, 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 MAIN RECEPTION Evacuation Key	0100 <switch></switch>	< Location Text for First Zone < Confirmation of Evacuation
[1 Zone in Fire][Last MAIN RECEPTION	Fire in Z0100]	< No. of Zones in Fire & Last Zone < Zone Description for Last Zone

3.4.1 Detailed Fire Alarm Information

Press the $\mathbf{A}\mathbf{\Psi}$ buttons to view a list of all zones in a fire alarm condition.

Zone	FIRE-LOCATION	Scroll \downarrow	More>	
0001	BASEMENT WEST			
0005	BASEMENT EAST			

< List of Zones in Alarm including < Zone No. and location text

If more detail regarding the source of any fires is required, press the $\uparrow \Psi$ buttons to highlight the required zone in alarm and press the \rightarrow button to show further information. For example:

[FIRES IN ZONE 001] More> LP ADRS DEVICE LOCATION	
1 001.0 KITCHEN	< List of devices within the Zone < that are in Alarm
[2 Zones in Fire][Last Fire in Z0005] BASEMENT EAST	< No. of Zones in Fire & Last Zone < 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 $\uparrow \Psi$ buttons to scroll through the devices.

Press the \leftarrow 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.

3.4.2 Investigation Delays



The Investigation Delay Function can be disabled or enabled as required by EN54: 2. Refer to Section 3.10.4.

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 STAF	RTED IN	ZONE	0001	
BASEMENT WEST				
KITCHEN		<	TEMPEF	RATURE>
OUTPUT DELAY	30 s	(Press	0 to	extend)
[1 Zone in BASEMENT WEST	Fire][Last Fi	re in	Z0001]

< Location Text for First Zone < Location Text and Type of Device < Delay Timer (Stage 1)

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	
KITCHEN	<temperature></temperature>
OUTPUT DELAY 120 s	
[1 Zone in Fire][Last	Fire in Z0001]
BASEMENT WEST	

< Location Text for First Zone < Location Text and Type of Device < Delay Timer (Stage 2)

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.

3.5 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.

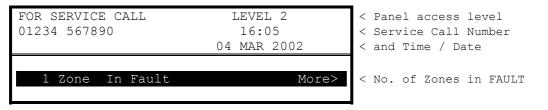
An example of the display is shown below:

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

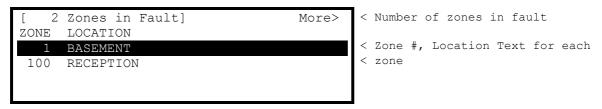
If more than one fault condition occurs, these will be shown on the display. If the internal buzzer was muted, it will sound again when a new fault condition is registered.

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 display then shows the current time and date and service centre telephone number along with the indication of the fault.



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



Press the $\uparrow \Psi$ buttons to highlight the required fault and then press the \rightarrow button to show further information. For example:

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

Press the \rightarrow 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.

3.6 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 \rightarrow button. The display will then present the disablement conditions in the following sequence:

- Zone / Individual Inputs.
- Outputs

3.6.1 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 $\uparrow \downarrow$ buttons to highlight the required zone and then press the \rightarrow 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:

[Input:	s in	n Zone	0001]	<more></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 type of input are shown. Press the $\mathbf{A}\Psi$ buttons to scroll through the inputs.

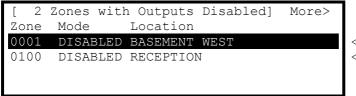
Press the \rightarrow button to show further information on device location, type analogue/digital values etc.

Press the 'ESC' key to return.

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

3.6.2 Disabled Outputs

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



< Zones with location text where < outputs are disabled

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

[Outputs	s ir	n 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 $\uparrow \Psi$ 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.

3.7 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:



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.

3.8 Menu Functions

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

[Level 2	Menu]		
VIEW		DISABLE	ENABLE
TEST		PRINT	COMMISSION

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	Disable a complete zone or an individual input.
	Outputs	Disable sounder outputs or other devices.
	Controls *	Cancel Level 2 access.
	Delay-Mode	Turn off the Stage 1 / Stage 2 Investigation Delay Operation
ENABLE Zone / Inputs		Enable a complete zone or an individual input.
	Outputs	Enable sounder outputs or other devices.
	Delay-Mode	Turn on the Stage 1 / Stage 2 Investigation Delay Operation
	Change-Time	Allows authorised level 2 users to change time.
TEST	Zones	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
PRINT	Inputs	Print the status of inputs
	Ouputs	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	Configure the printer connection and automatic print options
COMMISSION		Enter the Level 3 Commissioning and Panel Programming Functions

*Not required if a key switch is fitted for changing access levels.

3.8.1 Using the Buttons to Navigate Menus

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

3.8.1.1 Selecting Menu Options

The Level 2 Menu is shown below:

[Level 2 Me	nu]	
VIEW	DISABLE	ENABLE
TEST	PRINT	COMMISSION

Press the $\leftarrow \uparrow \lor \rightarrow$ buttons to highlight the required menu option and then press the \checkmark button to select it.

For example, press the \rightarrow button followed by the \checkmark button to highlight the PRINT option (as shown below) and then press the \checkmark button to select this option.



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.

3.8.1.2 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			
8000	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.

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

Finally press the \checkmark 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.

3.9 Viewing

[View Menu] 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.

3.9.1 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 3.4 for further information.

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

3.9.2 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 3.5 for further information.

3.9.3 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.

3.9.4 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 3.6 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.

3.9.5 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 $\uparrow \downarrow$ buttons to highlight the required zone and then press the \rightarrow button to view the full location text

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

[Inputs	in	Zone	0008]	<more></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 $\mathbf{A} \mathbf{\Psi}$ buttons to scroll through the inputs.

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

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

3.9.6 View - Outputs

This function shows the current operational condition for all Outputs.

[Outp	uts]	
More>		
Zone	Mode	Location
8000	ENABLED	GROUND FLOOR
0100	ENABLED	MAIN RECEPTION

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

Г	[Output	ts I	In Zone	e 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).

3.9.7 **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	DESCRIP	ΓIC	V NC	/ALUE	STATE	
01.0	Sounder	А		5.6V	Normal	
01.1	Sounder	В		5.6V	Normal	
02.0	Sounder	А	Load	0mA	Normal	
02.1	Sounder	В	Load	0mA	Normal	

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

Item	Description	Value Range	Normal	Possibl	e States
01.0	Sounder A	0V – 14V	5.5V	Normal	Open Circuit, Short Circuit
01.1	Sounder B [*]	00 - 140	5.50	Normai	Open Circuit, Short Circuit
02.0	Sounder A Load	0mA – 1000mA	†	Normal	Too High
02.1	Sounder B Load *	011A - 100011A		Normai	100 High
03.0	Battery	0V – 30V	27.6V	Normal	Too High, Too Low
04.0	Charger	0V – 30V	28.0V	Normal	Too High, Too Low
05.0	Earth Monitor	0V – 30V	1.3V	Normal	Too High, Too Low
06.0	Aux Supply	0mA – 500mA	†	Normal	Too High
07.0	1 st Loop Load [‡]	0mA – 500mA	†	Normal	Open Circuit, Too High, Short Circuit
08.0	1 st Loop V.Out [‡]	24V – 32V	†	Normal	
09.0	1 st Loop V.In [‡]	24V – 32V	†	Normal	
10.0		L/H	L	Normal	Programmable inputs
to	Panel Switch Inputs			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.

 ^{*} The *MX-4400* also displays Sounders C and D.
 [†] Depends on the panel configuration, installation and current operating condition (i.e. fire alarm).
 [‡] Loop Load, V.Out and V.In displayed for each loop driver (2 on *MX-4200*, 4 on *MX4400*).

3.9.8 View - Log

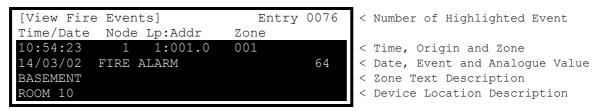
After selecting to view the log option the display presents a pop-up window to allow selection between a view of all of the event history, a view of only the fire alarms that have occurred or a view of the fire alarm counter.



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.

3.9.8.1 Event Log

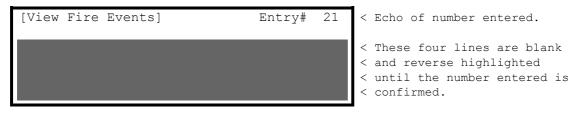
The display will always show the most recent event to have occurred, e.g.



In the above example, the latest fire occurred (Event No. 76) at 10:54 am on March 14, 2002. 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 $\uparrow \Psi$ buttons to scroll through the fire alarm events logged in the system. Press the \uparrow button to show more recent events and press the Ψ button to show earlier events.

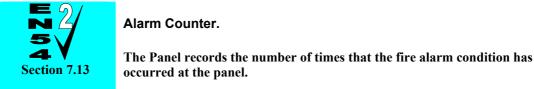
To view the details for a specific Log Entry Number, it is possible to select the record by typing in the required number using the number keys. The number entered is echoed at the upper right of the display. For example:



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.

3.9.8.2 Alarm Counter



I	[View	Alarm	Counter]
		000000	0033

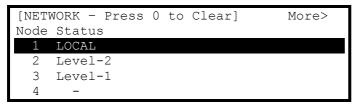
In the above example, the panel has entered the fire alarm condition 33 times since it was installed.

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.

3.9.9 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:



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.

3.9.10 View - Logic

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

3.10 Disabling

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

[Disable]			
ZONE/INPUTS DELAY-MODE	OUTPUTS	CONTROLS	

Press the \bigstar buttons to highlight the required menu option and then press the \checkmark button to select it.

3.10.1 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.

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

[0	Zones	with	Inputs	Disabl	_ed]	More>
Zone	Э	Mode	Э	Loc	cation		
0001		Enak	oled	BAS	SEMENT	WEST	
0002	2	Enak	oled	BAS	SEMENT	EAST	
0008	3	Enak	oled	GRO	DUND FI	LOOR	
0009)	Enak	oled	MA	IN RECE	PTION	I AREA

Press the $\uparrow \Psi$ 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 \checkmark button and a pop-up window appears showing the three possible options: -

ALI	INPUTS	5		
ALI	EXCEP	CALL	POINTS	
SEI	ECTED I	NPUTS		

Press the $\uparrow \Psi$ buttons to scroll through and highlight the required option and then press the \checkmark 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>
Mo	de	Lp	Adrs	State	
En	abled	1	001.0	Normal	
Di	sabled	1	002.0	Normal	
En	abled	1	003.0	PRE-ALARM	
En	abled	1	004.0	Normal	

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

Press the $\uparrow \Psi$ buttons to scroll through and highlight the required input and then press the \checkmark button to disable it. Pressing the \checkmark button when the input is already disabled will enable the input.

Press the 'Esc' button to return.

3.10.2 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.

On selection of the Disable Outputs option, a pop-up window is shown for entry of the Level 2 password. This is to prevent inadvertent disabling of outputs.

Please Enter Your Password	

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.

ALL SOUNDER STYLE OUTPUTS	
ALL OTHER OUTPUTS	
SELECTED OUTPUTS	
FIRE ROUTING	↓
FAULT ROUTING	

3.10.2.1 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.

3.10.2.2 All Other Outputs

Press the $\uparrow \Psi$ 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.

3.10.2.3 Selected Outputs

Press the $\uparrow \Psi$ 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	
8000	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:

[Output	s 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 $\uparrow \Psi$ 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.

3.10.2.4 Fire Routing Output

Press the $\uparrow \downarrow$ buttons to scroll through and highlight the FIRE ROUTING OUTPUTS 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.

3.10.2.5 Fault Routing Output

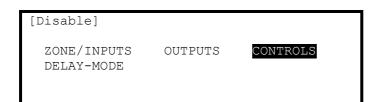
Press the $\uparrow \Psi$ buttons to scroll through and highlight the FAULT ROUTING OUTPUTS Option and then press the \checkmark button to disable it. The display automatically reverts to the Main Disable Menu.

This feature disables the output connected to this panel only.

3.10.3 Disable - Controls

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

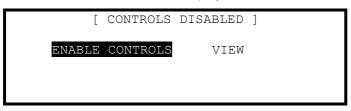
If the panel has an access key switch fitted, use the key switch in preference to the menu option shown below.



Press the \leftarrow buttons to highlight the Controls option and then press the \checkmark 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.

3.10.4 Disable - Delay-Mode

This operation will cancel the Investigation Delay mode.

[Disable]			
ZONE/INPUTS DELAY-MODE	OUTPUTS	CONTROLS	

Press the \leftarrow buttons to highlight the Delay-Mode option and then press the \checkmark 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).



Highlight the required option using the $\uparrow \Psi$ buttons and then press the \rightarrow button to confirm. The display then reverts to the Disable Options Menu.

Select **NO DELAY** to disable the operation of the Stage 1 / Stage 2 Investigation Function.

Select **USE INVESTIGATION DELAYS** to enable the operation of the Stage 1 / Stage 2 Investigation Function.

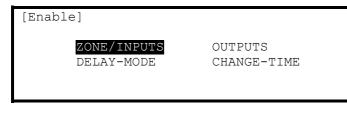
If the investigation delays are in operation then the "Delayed" LED Indicator is illuminated. When the investigation delays are disabled and turned off, the "Delayed" LED Indicator is turned off.

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.

3.11 Enabling

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



Press the \bigstar buttons to highlight the required menu option and then press the \checkmark button to select it.

3.11.1 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).

3.11.2 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 or the FAULT ROUTING 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).

3.11.3 Enable - Delay-Mode

This option allows the re-enabling of Investigation Delays.

3.11.4 Enable - Change-Time

Allows the clock time to be changed. Note that a password must be entered before this can be changed. Only level-2 passwords for users 1..5 are accepted.

For example:



To change the settings, use the $\uparrow \lor$ 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 = 15/04/02 MON 15 APR 2002
```

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

3.12 Testing

[Test Menu] <mark>ZONES</mark> DISPLAY BUZZER PRINTER

Press the \bigstar buttons to highlight the required menu option and then press the \checkmark button to select it.

3.12.1 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. 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 $\uparrow \Psi$ buttons to scroll through and highlight the required option and then press the \checkmark 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:

[0	Zones in Test]
Zone	Test State	Location
>0001	—	BASEMENT WEST
0002	-	BASEMENT EAST
0100	-	MAIN RECEPTION

Press the $\uparrow \Psi$ buttons to scroll through and highlight the required zone and then press the \checkmark button to change the Test State. For example:

[1	Zone in Test]	
Zone	Test State	Location
0001	IN TEST	BASEMENT WEST
0002	-	BASEMENT EAST
8000	-	GROUND FLOOR
0009	-	MAIN RECEPTION AREA

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.

[2	Zones in Test]
Zone	Test State	Location
0001	IN TEST !	BASEMENT WEST
0002	_	BASEMENT EAST
8000	-	GROUND FLOOR
0009	IN TEST	MAIN RECEPTION AREA

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 \leftarrow button to move to the zone number column, and then typing in the required number, followed by the \checkmark 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 \checkmark 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 \checkmark 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: -

FINIS	SHED TE	ST		
KEEP	ZONES	IN	TEST	

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.

3.12.2 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 $\leftarrow, \uparrow, \lor, \checkmark, \checkmark, \checkmark, \checkmark, \checkmark, \checkmark$ 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.

3.12.3 Test - Buzzer

[Test Menu]					
ZONES	DISPLAY	BUZZER	PRINTER		

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

3.12.4 Test - Printer

To invoke the printing of a test print sequence, highlight the Test Print Option and press the \checkmark 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.

3.13 Printing

[Print Menu]					
INPUTS	OUTPUTS		DISABLED		
LOG	FEED-PAPER		P PRINTER		

3.13.1 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

3.13.2 Set-up Printer

To enable or set-up the operating characteristics of the printer, highlight the Set-up Printer Option and press the \checkmark button to confirm. The display prompts for entry of the password to guard against inadvertent changes.

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

[FIRES]	[ALARMS]	[FAULTS]	[TESTS]
1	1	-	-
(Printer	: Internal	External	/Wide)
	-	1	-

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 $\leftarrow, \uparrow, \downarrow, \rightarrow$ and \checkmark buttons to highlight the required option and change its setting. Pressing the \checkmark button turns the option on (\checkmark is shown) or off (- is shown) accordingly.

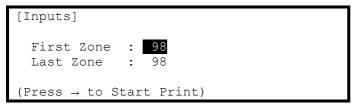
In the above option, an external printer is selected, with automatic printing of fires and alarms.

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.

3.13.3 Print Inputs

To print information on any input, highlight the Inputs option and press the \checkmark 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 ($\uparrow \Psi$) buttons to highlight the first and last zone number and use the number keys to change the zone number required.

Press the \rightarrow key to start printing.

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

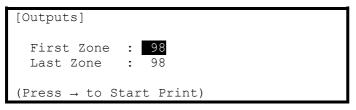


After all information has been printed, the display will automatically revert to the Print Menu. Press the "Esc" key to stop printing if required.

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.

3.13.4 Print Outputs

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



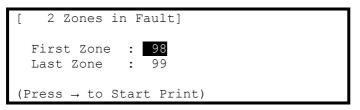
The display will prompt the zones in use on this panel. For networked systems, it is possible to select any zones used in the system. Use the arrow ($\uparrow \Psi$) buttons to highlight the first and last zone number and use the number keys to change the zone number required.

Press the \rightarrow 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.

3.13.5 Print Faults

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



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

Use the arrow ($\uparrow \downarrow$) buttons to highlight the first and last zone number and use the number keys to change the zone number as required.

Press the \rightarrow key to start printing.

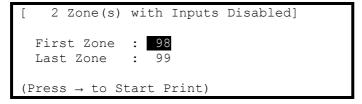
The printout will show the location and state of all input and output points in a fault condition for the zones selected.

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

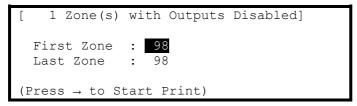
3.13.6 Print Disabled

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

If there are zones with inputs disabled:



If there are zones with outputs disabled:



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

Use the arrow ($\uparrow \downarrow$) buttons to highlight the first and last zone number and use the number keys to change the zone number as required.

Press the \rightarrow 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.

3.13.7 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 $\mathbf{A}\mathbf{\Psi}$ buttons and press the $\mathbf{\checkmark}$ 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.

3.13.8 Print - Feed Paper

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

In the event of a fire alarm, call: -**Quick Reference Guide** TEL: For Service & Maintenance, Mx-4000 Series contact: -TEL: **Controls & Indications Navigation Buttons** Navigation Graphic Liquid Crystal Display Buttons Press to scroll through Menu Options. ← Press to display more information. Press to scroll through menu Options. $\mathbf{\Psi}$ ♠ Press to scroll through lists of zones or ✓∍ 4 devices ₽ 1 Press to confirm entry of numeric or letter information entry. Press to confirm selection of a menu option Reset s 1 2abc 3def Press to change some of the configuration Sounder Fault Function 2 options Fault Mute 4ghi 5jki 6mn D Sounder Disable Number Buttons Silence 7pqrs 8tuv 9wxyz Te Sv Ē Esc 0- N 0 to 9_{wxyz} Used to enter numbers or letters. tion 5 Esc Press to return to a previous menu. LED Status Control Number and Press to exit the menu functions and return _etter Buttons Indicators Buttons to the normal display. The panels may be fitted with separate zone fire indicators comprising of 20, 50, 100 or 200 red Menu Press to show or return to Level 1 or Level indicators - these show the zones in a fire alarm condition. 2 Menu Functions. Main User functions are VIEW, TEST, DISABLE & ENABLE. In addition, the panels may be fitted with separate indications showing the loaction of fire alarms in a pictorial display (mimic diagram). **Control Buttons** Graphic Display The graphical display provides detailed information of the source of fires, faults and warnings. It Reset: Press to reset the panel from a J also shows menus for use when inspecting or programming the operation of the panel latched condition. Under normal conditions the panel display shows the time, date and status: -Mute: Press to mute the internal buzzer. Silence / Re-sound: Press to silence the LEVEL 2 bells. Press again to re-sound the bells. Mx-4100 16:05 04 MAR 2002 Evacuate: Press to initiate a manual evacuation and sound the alarms. Level 2 Access is required for Reset, Silence & Evacuate buttons and for programming Menu functions. Level 2 operation can be entered using a key-switch (if fitted) or by NORMAL PANEL OPERATION (Press Menu to View) entry of a pass-code. LED Status Indicators Th<u>e following is a typical menu dis</u>play [Level 2 Menu] RED Separate LED Indicators show the presence of a fire alarm condition and (if configured) that the fire brigade has been called DISABLE ENABLE VIEW PRINT COMMISSION YELLOW Indicate other system operating conditions TEST 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.

Refer to the User Manual (Document Number 680-014) for full operating instructions.

For easy reference, cut out and frame / mount on the wall next to the panel.

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