



ADVANCED WARNING

SYSTEMS

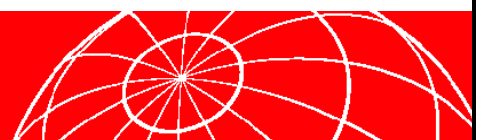
GasRelease



Panel User Manual
& Log Book

MAN1806-1

WORLD LEADER OF INNOVATIVE SOLUTIONS
IN FIRE DETECTION AND ALARM SYSTEMS



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IMPORTANT SAFETY NOTES



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

Lethal voltages are present inside the panel. **DO NOT** operate the panel with its enclosure open. There is no need to open the enclosure except to carry out commissioning, engineering, or maintenance work. This work must only be carried out by competent service personnel who are fully conversant with the contents of the separate installation manual for this product and have the necessary skills for maintaining this equipment.

If the enclosure is damaged in any way, expert advice should be sought regarding its repair.

Regular servicing of the Gas Release panel and extinguishing system is highly recommended, preferably on a continuous maintenance contract and by a competent organisation. A full itemised report of the installation should be obtained at least annually.

BASIC OVERVIEW AND KEY FEATURES

The **GasRelease** panel acts as both a conventional fire alarm panel and an automatic extinguisher control panel.

The **GasRelease** panel's features include the following:

- Time-stamped event log
- Abort and hold functions for cancelling, or delaying the extinguishant release sequence
- Front-panel mounted LCD unit displays system status and facilitates system programming
- Front-panel mounted extinguisher release button and two keyswitches; one to enter access mode and one to toggle between automatic/manual modes of operation
- Three-zone conventional detector circuits, line monitored for open and short-circuit faults. Any zone combination can be programmed to activate an alarm and initiate the extinguishant release sequence
- Three conventional alarm sounder circuits (two x 1st stage, one x 2nd stage), line monitored for open and short-circuit faults
- Monitored inputs for: Manual Release, Flow Switch, Low Pressure, Mode, Hold and Abort
- Auxiliary outputs for: Fire, Local Fire, Extract, 1st Stage, 2nd Stage, Fault
- Extinguishing output supports up to 2 x solenoids, or multiple 'Metrons™'
- Adjustable extinguishant release time delay, duration and flooding time
- Alarm counter to record the number of times the panel has been in an alarm state
- Optional Output Expansion Relay Board providing additional relay outputs for: Reset, Mode, Discharged, Hold and Abort
- Connections for up to eight Remote Status Units (RSU) which provide remote indication of system status on an LCD unit, with mode select and manual extinguisher release
- Connections for up to eight Economy Status Units (ESU) to provide remote indication of system status with mode select.
- Pushbutton and keyswitch entry to two access levels (displayed on the LCD unit). Access Level 1 (AL1) is for general users, Access Level 2 (AL2) is for authorised users.

CONTROLS AND INDICATORS

The front of the **GasRelease** panel has various LED indicators, pushbuttons, keyswitches and an LCD unit, as shown in Figure 1 below:

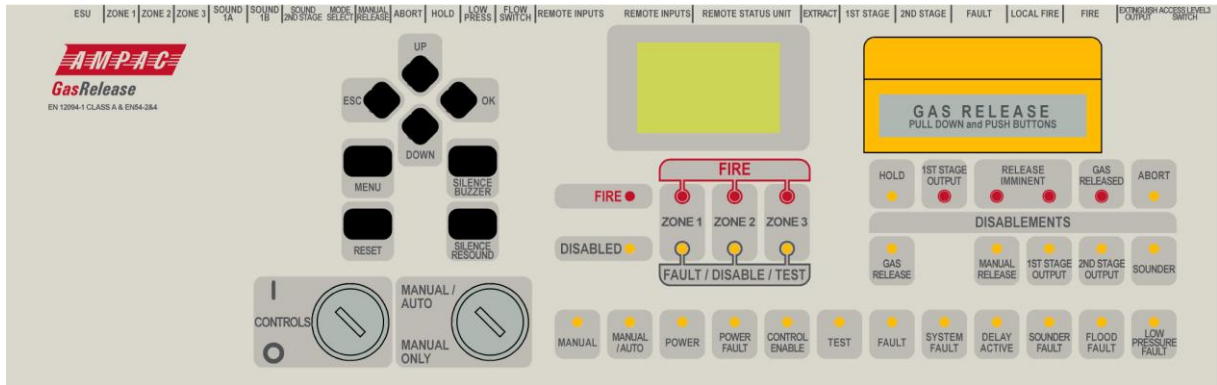









Figure 1: Front Panel Controls and Indicators

LCD Unit

This unit provides system status information, counts down the time for extinguishant release and displays Access Levels 1 & 2 menus and sub-menus.

LED Indicators

The LED indicators on the front of the panel give a comprehensive overview of the system's current status. Any fire and fault conditions are clearly displayed, disablements highlighted and the status of all inputs and outputs displayed. The table below summarises the various indicators and what they mean in their various states.

Indicator	Status	Description
	Flashing - Red	Panel has detected a fire alarm condition on a fire zone.
	Steady - Red	The fire alarm has been silenced.
	Flashing - Red	A fire alarm condition has been detected on the associated zone
	Steady - Red	A fire alarm condition has been silenced on the associated zone
	Flashing - Yellow	A hold input has been received at the panel
	Steady - Red	First Stage extinguishant output has been activated
	Steady - Red	Countdown timer to extinguishant release has started.
	Steady - Red	A flow switch input (from a flow switch on the extinguishant cylinder) is received at the panel
	Steady - Yellow	An abort input has been received at the panel

	Steady - Yellow	Part of the system has been manually disabled and/or one or more of the fire zones has a delay applied to them
	Flashing - Yellow	Faulty wiring, or detector removed from base on the flashing zone
	Steady - Yellow	The zone has been disabled
	Flashing - Yellow	The zone is in test mode
	Steady - Yellow	Extinguishant release output has been disabled
	Steady - Yellow	Manual Release facility has been disabled
	Steady - Yellow	First stage contact has been disabled
	Steady - Yellow	Second stage contact has been disabled
	Steady - Yellow	Indicates all panel sounders are disabled
	Steady - Yellow	Indicates the status of the extinguishant system is "Manual Only" mode
	Steady - Yellow	Indicates the status of the extinguishant system is "Manual & Automatic" mode
	Steady - Green	The panel is supplied with power
	Flashing - Yellow	The panel has detected a fault with its power supply, or backup batteries
	Steady - Yellow	The panel mounted keyswitch has been turned to the "Accessed" position and the panel is in Access level 2
	Flashing - Yellow	The panel is in test mode
	Flashing - Yellow	Indicates a fault has been detected on the system
	Flashing - Yellow	The panel has detected a microprocessor fault
	Steady - Yellow	Delays have been programmed into the panel
	Flashing - Yellow	A delay is currently running
	Flashing - Yellow	Faulty wiring (short or open circuit) has been detected on the panel's sounder outputs
	Steady - Yellow	The alarm sounders have been disabled
	Flashing - Yellow	Indicates a short or open circuit on extinguishant output

	Flashing – Yellow	Indicates there is low pressure in the extinguishant system, or there is a short or open circuit fault on the low pressure switch input
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Push button Controls

Push Button	Description
	Dependant on the status of the panel, the push buttons: <ul style="list-style-type: none"> • Scroll vertically through any fire, prealarm or fault conditions that appear on the LCD screen • Scroll vertically through the user menus • Manipulate date, time, disablement settings etc
	Dependant on the status of the panel, the push buttons: <ul style="list-style-type: none"> • Scroll horizontally through the user menus • Escape, or accept options available in the user menus
	Provides access to Access level 1 menu
	Silences the panel's internal sounder at anytime
	Resets the panel after the sounders have been silenced (Access level 2 only)
	Silences, or resounds the system's sounders (Access level 2 only). Note: This push button will not silence 2 nd stage alarm if the extinguishant is about to be released.
	<p>CAUTION: THESE PUSH BUTTONS MANUALLY RELEASE THE EXTINGUISHANT</p> Pull down the flap and press both buttons to release the extinguishant

Key Switch Controls

accessed



Insert and turn the panel-mounted keyswitch to the “accessed” position to enter Access Level 2 (Authorised User level). Turn and remove the keyswitch to exit Access Level 2.

manual & automatic



manual only

Insert and turn the panel-mounted keyswitch to toggle the mode of the extinguishant system between “Manual Only” and “Manual & Automatic”.
NOTE: WHEN THE PANEL IS IN MANUAL MODE, EXTINGUISHANT CANNOT BE RELEASED BY AUTOMATIC FIRE DETECTION.
MODE SELECT KEYSWITCHES ARE ALSO MOUNTED ON REMOTE STATUS UNITS (RSU) AND ECONOMY STATUS UNITS (ESU) AND OTHER DEVICES. ANY ONE KEYSWITCH IN THE MANUAL POSITION TAKES CONTROL OF THE SYSTEM MODE.

ACCESSING THE MENU CONTROLS

Overview

Two levels of menu controls are available on the **GasRelease** panel; Access Level 1 (AL1) for General Users and Access Level 2 (AL2) for Authorised Users. All menus are displayed at the LCD unit as detailed in Figure 2, below:

Note: When selected, menus and sub-menus change from Title Case to UPPERCASE

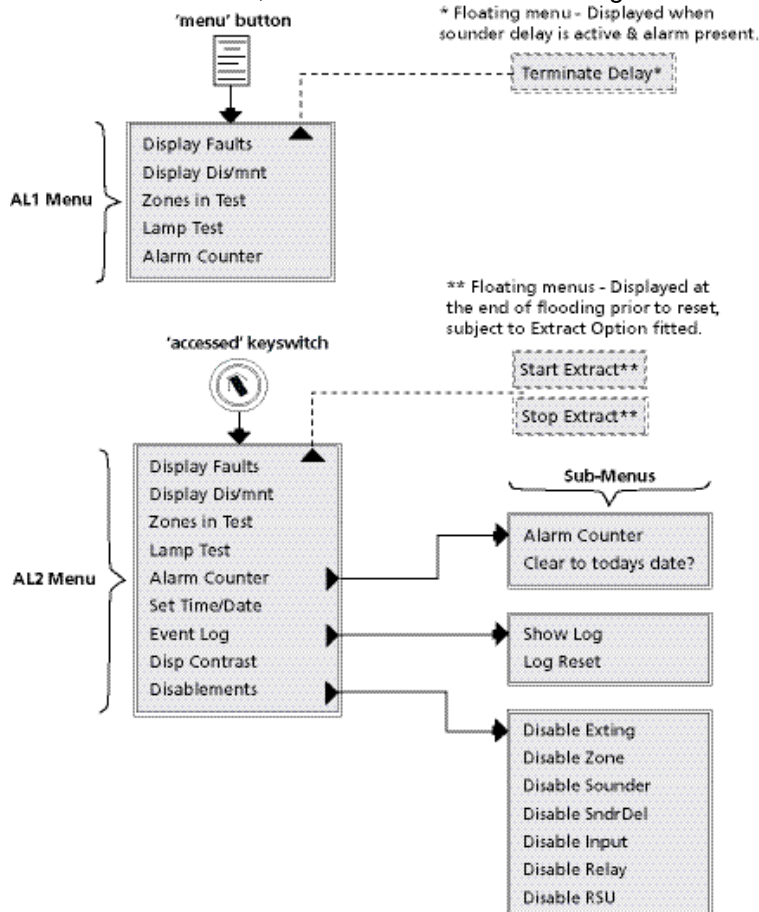


Figure 2: Overview of Access levels 1 and 2 menus

Selecting the Menus and Sub-Menus

1. To enter Access Level 1 menu press the Menu pushbutton, or to enter Access Level 2 menu turn the panel-mounted keyswitch to the “accessed” position.
2. Press the “UP” and “DOWN” buttons to highlight a menu.
3. Press the “OK” button to select a menu.
4. Press the “OK” button to select a sub-menu (if available).
5. If applicable, press the “UP” and “DOWN” buttons to scroll the display through all active conditions (faults, disablements, tests, etc.).
6. Press the “ESC” button to return to the previous menu.
7. To exit Access Level 1 press the “ESC” button. Note: The panel will automatically exit Access Level 1 after approx. 15 secs. of inactivity. To exit

Access Level 2 turn the panel-mounted keyswitch to the NOT “accessed” position.

General User Controls (Access Level 1)

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

- Manually activate the extinguisher release
- Mute the internal sounder.

Also, by pressing the Menu pushbutton the LCD unit displays the following menu:

Note: All Access Level 1 menus are available to an Access Level 2 user.

Menu	Description
Display Faults	Displays all faults on the system
Display Dis/mnt	Displays all disablements on the system
Zones in Test	Displays all detection zones that are in test mode on the system
Lamp Test	Illuminates all front panel LED indicators
Alarm Counter	Displays the number of times a fire alarm condition has occurred on the panel

Note: A Terminate Delay ‘floating’ menu is also displayed for a level 1 user when there is an alarm on the system and a sounder delay is active. Selecting this menu activates the fire sounders immediately.

Display Faults

1. In Access Level 1, select the Display Faults menu. The panel displays all active faults on the system. (e.g. Zone 1 O/C Fault, Zone 2 S/C Fault, etc.)
2. Scroll the display through all active faults using the “UP” and “DOWN” buttons.
3. Press the “ESC” button to return to the Access Level 1 menu.

Display Dis/mnt

The Display Disablements menu displays all active disablements on the system. An Access Level 2 user sets disablements.

1. In Access Level 1, select the Display Dis/mnt menu. The panel displays all active disablements on the system (e.g. Zone 1 disabled, etc.)
2. Scroll the display through all active disablements using the “UP” and “DOWN” buttons.
3. Press the “ESC” button to return to the Access Level 1 menu.

Zones in Test

This menu displays all detection zones that are currently in test mode on the system. A system engineer can only put zones into test mode.

1. In Access Level 1, select the Zones in Test menu. The panel displays all zones currently in test on the system (e.g. Zone 1 is on Test, etc.)
2. Scroll the display through all active zones in test using the “UP” and “DOWN” buttons.
3. Press the “ESC” button to return to the Access Level 1 menu.

Lamp Test

All LED indicators can be tested at anytime by selecting using this menu.

1. In Access Level 1, select the Lamp Test menu. All the panel’s LEDs will illuminate steady for approx. 2 secs. The panel’s internal sounder will also sound. If any LEDs fail to illuminate report the fault to the designated site engineer and make a note in the Log Book.
2. On completion, the display returns to the Access Level 1 menu.

Alarm Counter

1. In Access Level 1, select the Alarm Counter menu. The total number of times the panel has been in a fire alarm condition is displayed.

2. Press the “ESC” button to return to the Access Level 1 menu.

Authorised User Controls (Access Level 2)

The functions that can be performed in Access Level 2, by turning the panel-mounted keyswitch to the “accessed” position, are:

- Manually activate the extinguisher release
- Mute the internal sounder
- Silence the alarm sounders
- Resound the alarm sounders
- Reset an alarm condition.

Also, the LCD unit displays the following menu:

Menu	Sub-Menu	Description
Display Faults	-	See Access Level 1
Display Dis/mnt	-	See Access Level 1
Zones in Test	-	See Access Level 1
Lamp Test	-	See Access Level 1
Alarm Counter	-	Displays the number of times a fire alarm condition has occurred on the panel. Also resets the counter.
Set Time/Date	-	Adjusts the panel’s date & time settings
Event Log	Show Log	Displays the panel’s event log
	Log reset	Resets the panel’s event log
Disp Contrast	-	Adjusts the contrast of the LCD unit
Disablements	Disable Exting	Disables/Enables the extinguishant system
	Disable Zone	Disables/Enables detection zones
	Disable Sounder	Disables/Enables fire sounders
	Disable Sndrdel	Disables/Enables fire sounder delay
	Disable Input	Disables/Enables monitored inputs
	Disable Relay	Disables/Enables auxiliary relay outputs
	Disable RSU	Disables/Enables Remote Status Units

Note: Two ‘floating’ menus (Start Extract & Stop Extract) are also displayed for a level 2 user when the Extract Option is selected as fitted by an engineer. These menus appear at the end of the flooding period, prior to reset, and start or stop the ventilation extract fan respectively.

Alarm Counter

1. In Access Level 2, select the Alarm Counter menu. The total number of times the panel has been in a fire alarm condition (since last reset) is displayed.
2. Press the “ESC” button to return to the Access Level 2 menu, or to clear the alarm counter, press the “OK” button. The panel requests confirmation to clear to today’s date.
3. Press the “OK” button to reset the counter. The panel will start counting any new fire conditions from the current date. A confirmation message confirms the change has been made and the display returns to the Access Level 2 menu.

Set Time/Date

1. In Access Level 2, select the Set Time/Date menu. The panel’s current time setting is displayed.
2. Use the “UP” and “DOWN” buttons to adjust the hour (the panel has a 24 hour clock).
3. When the correct hour is displayed, press the “OK” button to move to the minutes field.
4. Use the “UP” and “DOWN” buttons to adjust the minutes.
5. When the correct time is displayed, press the “OK” button to alter the date.
6. Use the “UP” and “DOWN” and “OK” buttons to set the day/month/year, as appropriate.
7. When correct, press the “ESC” button to return to the Access Level 2 menu.

Event Log

1. In Access Level 2, select the Event Log menu, select Show Log sub-menu. The panel's last event log is displayed.
2. Use the "UP" and "DOWN" buttons to view the previously saved events. When the log is full, the newest record replaces the oldest record. Events are listed in chronological order.
3. Press the "ESC" button to return to the previous menu.
4. To reset the panel's event log, in Access Level 2, select the Event Log menu, then select Log Reset sub-menu. The panel requests confirmation to erase the event log.
5. Press the "OK" button to confirm and the event log is cleared from the panel's memory.
6. Press the "ESC" button to return to the previous menu.

Disp Contrast

1. In Access Level 2, select the Disp Contrast menu. The panel's current LCD display contrast is displayed.
2. Use the "UP" and "DOWN" buttons to adjust the contrast of the LCD unit.
3. Press the "OK" button to confirm the new setting and return to the Access Level 2 menu.

Disabling

The Disabling menu allows the temporary disabling, or enabling of the extinguishant system, detection zones, sounders, monitored inputs, relays and RSUs. Typically used when there are input/output faults and for system testing.

Any active disabling are displayed at the Gas release panel by the General Disabling and relevant disabling yellow LEDs lit steady.

Note: It is recommended all disabling are immediately enabled when no longer required as they can have a major effect on how the system works.

Disable Exting

This sub-menu allows the disabling/enabling of the extinguishant system.

1. From the Disabling menu, select the Disable Exting sub-menu.
2. Press the "OK" button to disable/enable the extinguishant system.
3. Press the "ESC" button to return to the Disabling menu.

Note: 'Exting System Disabled' will also be displayed at any Remote Status Units (RSUs) connected on the system.

Disable Zone

This sub-menu allows the disabling/enabling of one, or more of the panel's three detection zones. Disabled zones do not report fire, or fault conditions.

1. From the Disabling menu, select the Disable Zone sub-menu.
2. Select the detection zone(s) to be disabled/enabled using the "UP" and "DOWN" buttons.
3. Press the "OK" button to disable/enable a selected zone.
4. Press the "ESC" button to return to the Disabling menu.

Disable Sounder

This sub-menu allows the disabling/enabling of the fire sounders from sounding in a fire condition.

1. From the Disabling menu, select Disable Sounder.
2. Press the "OK" button to disable/enable the sounder circuit.

3. Press the “ESC” button to return to the Disablements menu.

Disable SndrDel

The sounder delay sub-menu allows the disabling/enabling of a fire sounder delay in a fire condition.

1. From the Disablements menu, select Disable SndrDel.
2. Press the “OK” button to disable/enable the delay on the sounder circuit.
3. Press the “ESC” button to return to the Disablements menu.

Disable Input

This sub-menu allows the disabling/enabling of one, or more of the panel’s six monitored

inputs: Manual Release, Flow Switch, Low Pressure, Mode, Hold and Abort.

1. From the Disablements menu, select Disable Input.
2. Select the input(s) to be disabled/enabled using the “UP” and “DOWN” buttons.
3. Press the “OK” button to disable/enable the selected input.
4. Press the “ESC” button to return to the Disablements menu.

Disable Relay

This sub-menu allows the disabling/enabling of one, or more of the panel’s six auxiliary relay outputs: Fire, Local Fire, Extract, 1st Stage, 2nd Stage and Fault.

Note: If an Output Expansion Relay Board is fitted, this sub-menu also allows the disabling/enabling of one, or more of the card’s five relay outputs: Reset, Mode, Discharged, Hold and Abort.

1. From the Disablements menu, select Disable Relay.
2. Select the relay output(s) to be disabled/enabled using the “UP” and “DOWN” buttons.
3. Press the “OK” button to disable/enable the selected relay output.
4. Press the “ESC” button to return to the Disablements menu.

Disable RSU

This sub-menu allows the disabling/enabling of one, or more of the panel’s Remote Status Units.

1. From the Disablements menu, select Disable RSU.
2. Select the RSU(s) to be disabled/enabled using the “UP” and “DOWN” buttons.
3. Press the “OK” button. The panel requests confirmation.
4. Press “DOWN” to confirm the change.
5. Press the “OK” button to disable/enable the selected RSU. The Disablements menu is displayed.

Note: ‘RSU Disabled’ will be displayed at the RSU that has been disabled.

SYSTEM SET-UP DATA CHART

Important: This chart should be completed by an authorised engineer prior to system handover.
Complete the appropriate setting box.

Function	Setting	Description
ZONE SELECTION		The zone (Z1, Z2, Z3) combination that starts the extinguishant release sequence
EXTINGUISHANT DELAY	.....secs	The countdown duration before the extinguishant is released. Adjustable between 0 – 60 secs.
EXTINGUISHANT DURATION	.....secs	The duration of the firing signal to the extinguishant output. Adjustable between 1-300 seconds.
FLOODING TIME	.....secs	The duration for release of extinguishant. Adjustable between 60-1740 seconds.
EXTRACT OPTION	FITTED <input type="checkbox"/> NOT FITTED ... <input type="checkbox"/>	Selects whether a ventilation extract fan is fitted, or not.
EXTRACT TIME	.....secs	The duration for the ventilation extract fan operation. Adjustable between 1-900 seconds.
FLOW OPTION	FITTED <input type="checkbox"/> NOT FITTED ... <input type="checkbox"/>	Selects whether a flow switch is fitted, or not.
SOUNDER DELAY	.....secs	The time delay before the fire sounders operate. Adjustable between 0-600 seconds.
EXT OUTPUT EOLS	1 x EOL <input type="checkbox"/> 2 x EOL <input type="checkbox"/>	The number of extinguisher System Line Terminators. Set at either 1 or 2.
MODE EXEPTIONS	MODE FAULT: Manual Only <input type="checkbox"/> Auto/Manual <input type="checkbox"/> MODE DISABLED: Manual Only <input type="checkbox"/> Auto/Manual <input type="checkbox"/>	The default setting when the mode input is in Fault and/or Disabled. Set at either Manual Only or Auto/Manual mode.
EARTH FAULT	ENABLED <input type="checkbox"/> DISABLED <input type="checkbox"/>	Enables, or disables the panel's earth fault monitoring.
MANUAL RELEASE MODE	DELAYED <input type="checkbox"/> IMMEDIATE <input type="checkbox"/>	The manual release of extinguishant is delayed, or immediate. Extinguishant delay remains active on automatic detection.

Additional Information

Any additional information the user needs to be aware of is detailed below:

THE INFORMATION ABOVE WAS COMPLETED BY (NAME): _____

OF (COMPANY): _____ ON (DATE): ____/____/____

FIRE ALARM/GAS PANEL LOG BOOK

It is recommended that this log book be maintained by a responsible person, who should ensure that every entry is properly recorded. In the UK, this is necessary to satisfy the recommendations of BS5839-1, compliance with which may be a requirement of legislation. If your premises are certificated under the Fire Precautions Act 1971, failure to keep a suitable log book may be a breach of the requirements of the certificate, which is a criminal offence. In order to satisfy the requirements of BS5839-1, the following must be recorded:

- Name of the responsible person
- Brief details of the maintenance arrangements
- Dates and times of all tests, including fire drills
- Dates and times of all fires to which the system responds
- Dates and times of all false alarms
- Causes, circumstances surrounding, and category of false alarms (if known)
- The identity of any fire detector that triggers any of the above fire alarm/extinguisher signals (if known)
- Dates, times and type of all faults and defects
- The dates and times of all maintenance (e.g. service visit, or non-routine attention).

USER:

SITE ADDRESS:

RESPONSIBLE PERSON(S) ON SITE:

THE SYSTEM WAS DESIGNED BY:

THE SYSTEM WAS INSTALLED BY:

THE SYSTEM WAS COMMISSIONED BY:

THE SYSTEM WAS ACCEPTED BY:

FOR SERVICE (DETAILS OF WHO YOU SHOULD CONTACT IF MAINTENANCE IS REQUIRED)

THE SYSTEM IS MAINTAINED UNDER CONTRACT BY:

Company: _____

Address: _____

Contact number: _____ Expiry Date: _____

NORMAL HOURS (MON-FRI) TEL: _____

OUTSIDE NORMAL HOURS TEL: _____

MANNED CENTRE TEL: _____

MANNED CENTRE CODE: _____

NORMAL MAXIMUM ATTENDANCE TIME FOR A MAINTENANCE TECHNICIAN IS: _____

EXPENDABLE COMPONENT REPLACEMENT PERIODS (LIST):

UNCONTROLLED DOCUMENT

NOTE: Due to Ampac's commitment to continuous improvement specifications may change without notice.