

**FP1200 SERIES**

**ANALOGUE ADDRESSABLE FIRE PANEL  
USER INSTRUCTION MANUAL**

Revision 4.2: August 1998



# TABLE OF CONTENTS

|                                   |           |
|-----------------------------------|-----------|
| <b>1. INTRODUCTION</b>            | <b>1</b>  |
| <b>2. PANEL OPERATION</b>         | <b>2</b>  |
| 2.1 LED INDICATIONS AND CONTROLS  | 3         |
| 2.2 GENERAL INDICATORS            | 4         |
| 2.3 CONTROLS                      | 6         |
| 2.4 SOUNDERS                      | 7         |
| 2.5 FIRE BRIGADE                  | 8         |
| 2.6 ZONE INDICATORS (FP1216 ONLY) | 9         |
| 2.7 LCD AND KEYPAD                | 9         |
| <b>3. NORMAL OPERATION</b>        | <b>11</b> |
| <b>4. IN CASE OF FIRE</b>         | <b>12</b> |
| <b>5. IN CASE OF PRE-WARNING</b>  | <b>14</b> |
| <b>6. IN CASE OF FAULT</b>        | <b>15</b> |
| <b>7. ROUTINE MAINTENANCE</b>     | <b>16</b> |
| 7.1 DAILY                         | 16        |
| 7.2 QUARTERLY                     | 16        |
| 7.3 YEARLY                        | 17        |



## 1. INTRODUCTION

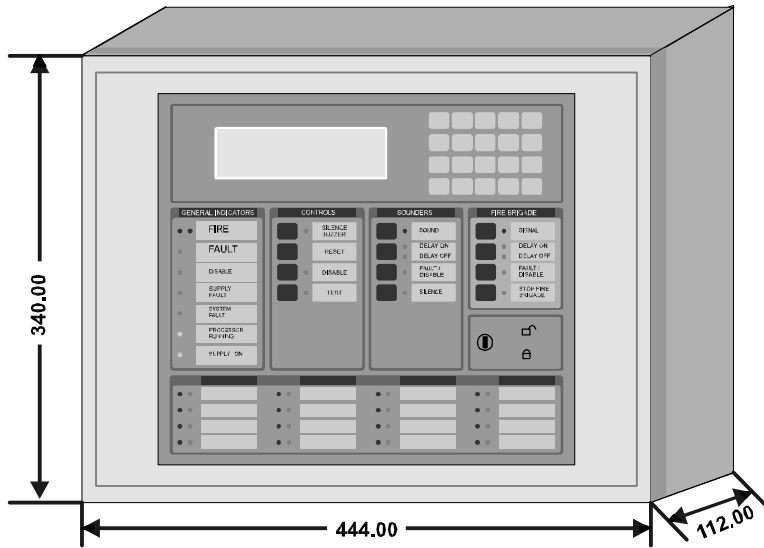
The FP1200 User Instruction Manual is intended as a guide to users (operators) of the Aritech FP1200 Series Analogue Addressable Fire Alarm Panel. Users are defined as those responsible for the routine day-to-day operation of the panel, including the handling of fire and fault conditions identified by the control panel.

The manual is written assuming no technical knowledge on the part of the user. The following manuals cover more detailed information on the FP1200 Series products:

|   | <u>Product Code</u> |
|---|---------------------|
| 1. Aritech 950-900 Series Detector Installation Guide                     | LKFP2103            |
| 2. Aritech 2000 Series Sensors Installation Guide                         | LKFP2203            |
| 3. FP1200 Reference Guide<br>(FP2000 Reference Guide with addendum sheet) | MAN-087             |
| 4. FP1200 Installation and Commissioning Manual                           | MAN-083             |

## 2. PANEL OPERATION

A view of the front of a typical FP1200 Series Fire panel is shown in Figure 1 below.



**Figure 1: Fire Panel Front View**

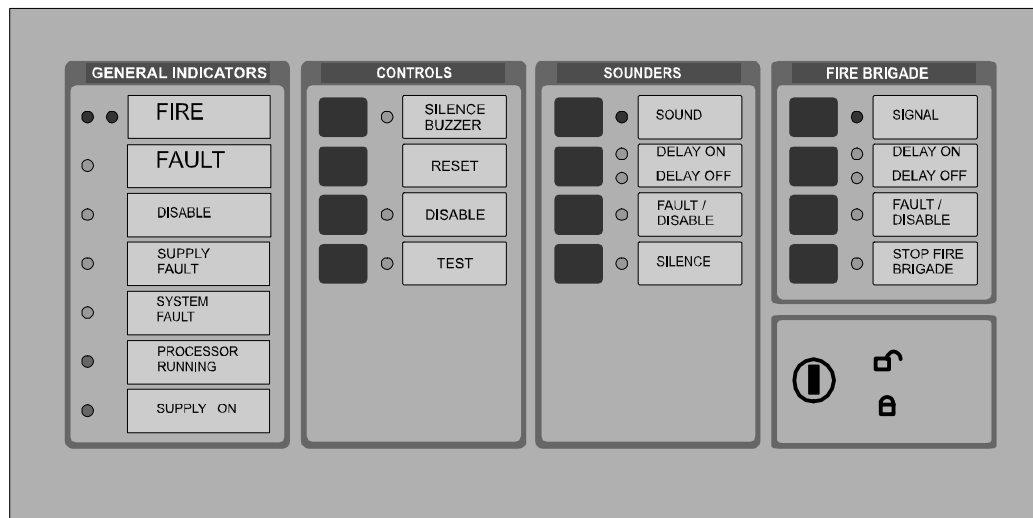
In order to describe the operation of a FP1200 series fire panel, the front panel has been divided into two sections, these being:

- LED indicators and controls
- LCD and keypad

## 2.1 LED INDICATIONS AND CONTROLS

The LED indications and controls can further be broken down into:

- General indicators
- Controls
- Sounders
- Fire Brigade
- Enable/Disable keyswitch
- Zone indicators



**Figure 2: General Indications and Controls**

## 2.2 GENERAL INDICATORS

### COMMON FIRE

Two red LED's indicate that a fire has been detected.

### COMMON FAULT

A common fault may be caused by one or more of the following:

- Device fault
- Zone fault
- Supply fault
- Processor fault
- Bell fault
- Fire Brigade fault
- Any test mode
- Any disable mode

### COMMON DISABLE

A yellow LED indicates that one or more of the following have been disabled:

- Devices on the loop
- Zone
- Sounders
- Fire Brigade
- Any delays ON

### SUPPLY FAULT

A yellow LED will illuminate for:

- Mains failure
- Battery disconnect or not charging

## SYSTEM FAULT

A yellow LED indicates that a system fault has occurred. A system failure can be one or more of:

- Internal memory failure
- Clock failure
- Watchdog time out
- Service link
- Logic error
- Memory lock
- No checksums calculated
- Hardware test fault
- Fireman's' panel down
- Input fault
- Output fault
- Configuration fault
- Checksum fault
- Protected memory overwritten
- Time date wrong
- Access fault
- FEP fault
- Watchdog time-out



## PROCESSOR RUNNING

A flashing green LED indicates normal operation.

## SUPPLY ON

A green LED indicates that the system is receiving 24V power.

## 2.3 CONTROLS


SILENCE BUZZER (Keyswitch  or )

The internal panel buzzer is activated for any new condition. The buzzer will be continuous for a fire alarm condition, intermittent for a fault warning and slow intermittent for a condition warning.


The buzzer is silenced by pressing the Silence Buzzer Key. The yellow silence buzzer LED will illuminate to indicate that the buzzer has been silenced.

RESET (Keyswitch )

This push-button will reset the fire panel.

DISABLE (Keyswitch )

This push-button calls up the Disable Menu. The Common Disable LED will indicate if anything is disabled.

TEST (Keyswitch )

This push-button calls up the Test Menu. The yellow LED will illuminate if the panel is put into a test mode.

## 2.4 SOUNDERS

### SOUND

A red LED indicates that the sounders have been activated.

Depends on the operation mode of the panel. Please refer to your Installer to the exact way of operation.

### DELAY ON/OFF

The programmed Sounder Delay may be toggled ON or OFF. Two LED's indicate the state.

### FAULT/DISABLE (Keyswitch )

The Sounder Fault/Disable push-button allows the sounders to be disabled. The associated LED indicates that the sounders have been disabled or that a sounder fault is present.

The sounder fault can be:

- Sounder circuit open circuit
- Sounder circuit short circuit
- Sounder circuit fuse failure

### SILENCE (Keyswitch )

A yellow LED indicates that the sounders have been silenced.

Please refer to your Installer to the exact way of operation.

## 2.5 FIRE BRIGADE

SIGNAL (Keyswitch )

A red LED will indicate that the signal has been activated.

Please refer to your Installer to the exact way of operation.


DELAY ON/OFF

The programmed Fire Brigade Signal Delay may be toggled ON or OFF. Two LED's indicate the state.

FAULT/DISABLE (Keyswitch )

The Fire Brigade output may be disabled by using this push-button. When the signal is disabled, then the disable LED will be illuminated.

The Fire Brigade circuit is monitored. The Fire Brigade fault LED will flash when a fault is detected in the circuit.

STOP FIRE BRIGADE (Keyswitch )

A yellow LED will indicate that the Fire Brigade signal has been deactivated.

Please refer to your Installer to the exact way of operation.

KEYSWITCH:  / 

A keyswitch is provided to either allow or prevent operation of the fire panel controls. The Silence Buzzer and Test keys will operate with the keyswitch in any position.

*! Note: Level 1 for Disable and level 2 for Enable must not be confused with access levels 1 and 2. There is no relation between the Enable/Disable keyswitch and the allocated access levels.*

## 2.6 ZONE INDICATORS (FP1216 ONLY)

Each zone has two indicators. A red LED indicates a fire and a yellow LED indicates a fault. The zone fault LED will flash for a fault condition. The zones are numbered from the top left, from left to right.

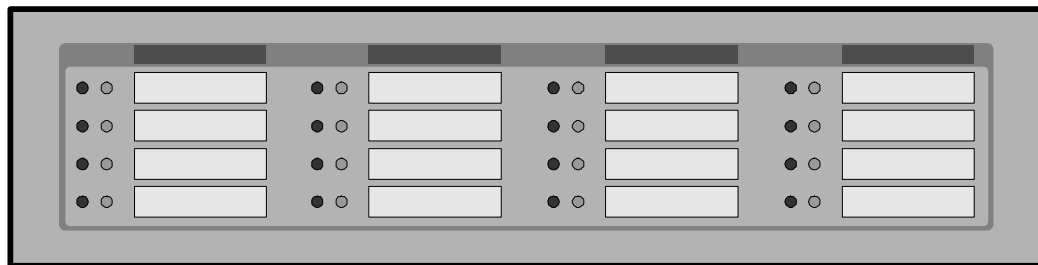


Figure 3: Zone Fire and Fault Indication

## 2.7 LCD AND KEYPAD



Figure 4: LCD and Keypad

## KEYPAD

The keypad consists of 20 keys, 10 of which are alphanumeric keys.

The remaining 10 are assigned various functions as detailed below:



Alpha selection when using any of the 10 alphanumeric keys.



Used to display the latest alarm at any time.



Print screen function to print any screen to the internal or external printers.



Scroll key used to move between Alarm, Fault and Conditions, as well as to view additional information when the "MORE" prompt appears on the LCD.



Exit to previous menu



Enter or confirm



Move to the next field in the display



Move to the previous field in the display



Increment



Decrement

### 3. NORMAL OPERATION

Normal operation is indicated by:

3.1 SUPPLY ON - Green Lamp ON

3.2 PROCESSOR RUNNING - Green Lamp FLASHING

3.3 SOUNDER INDICATORS - DELAY ON or DELAY OFF - Yellow Lamp ON

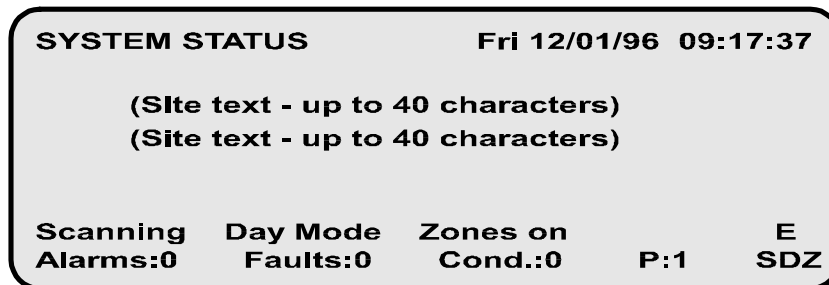
If a delay is ON, the disable LED will go on; this will be logged as a condition. Press the SILENCE BUZZER to silence the buzzer.

3.4 FIRE BRIGADE INDICATORS - DELAY ON or DELAY OFF - Yellow Lamp ON

If a delay is ON, the disable LED will go on; this will be logged as a condition. Press the SILENCE BUZZER to silence the buzzer.

3.5 All other Lamps OFF

3.6 The screen shows the System Status Menu as shown below:



3.7 The panel buzzer will sound for any abnormal condition that occurs with the fire panel.

## 4. IN CASE OF FIRE

4.1 The dual RED Lamps opposite FIRE will illuminate. The panel buzzer will sound and any external bell or siren will be activated.

4.2 The location of the fire alarm(s) is displayed on the screen as shown below. If more than one fire alarm exists then use the   to view each alarm.

|                                   |                          |                |
|-----------------------------------|--------------------------|----------------|
| <b>Alarm</b> :1                   | <b>Event</b> :79         | <b>Active</b>  |
| <b>Zone</b> :6                    | <b>Area</b> :1           | <b>ALMLVL</b>  |
| <b>Address</b> :1/12              | <b>Fire</b>              |                |
| <b>MCP</b>                        | <b>06/02/96 09:39:34</b> |                |
| (Site text - up to 40 characters) |                          |                |
| (Site text - up to 40 characters) |                          |                |
| <b>Alarms:0</b>                   | <b>Faults:0</b>          | <b>Cond.:0</b> |
|                                   | <b>P:1</b>               | <b>X SDZ</b>   |

4.3 Press  (DISPLAY ALARM) to view the latest alarm.

4.4 Press SILENCE BUZZER to silence the panel buzzer and to acknowledge an alarm.

### 4.5 SOUNDERS

Once the evacuation of the building has been completed or a false alarm identified, the sounders can be silenced as detailed below:

4.5.1 Turn the Keyswitch to  (Enable).

4.5.2 Press the SILENCE push-button. The yellow SILENCE lamp will illuminate.

4.5.3 To re-initiate evacuation press the SOUND push-button. The red SOUND lamp will illuminate.

## 4.6 RESTORE TO NORMAL

4.6.1 *When the fire situation is under control, then the fire panel can be brought to a normal*



*condition by turning the keyswitch to  and pressing the RESET push-button.*

4.6.2 *If a fire condition re-occurs, then one of the following exists:*

- *The fire is not under control - Refer to 4.2 above*
- *A Manual Call Point Glass is broken - Repair or isolate*
- *Detectors are contaminated with smoke - Clean detectors*

4.6.3 *Reset the fire panel as per 4.6.1.*

## 5. IN CASE OF PRE-WARNING


5.1 The location of the detector in pre-warning is displayed on the LCD screen as shown below. If more than one pre-warning condition exists, then use the   to view each pre-warning condition.

|                                   |                          |                 |
|-----------------------------------|--------------------------|-----------------|
| <b>Condition</b> :1               | <b>Event</b> :79         | <b>Active</b>   |
| <b>Zone</b> :6                    | <b>Area</b> :1           | <b>ALMLVL</b>   |
| <b>Address</b> :1/12              | <b>Pre Warning</b>       |                 |
| <b>MCP</b>                        | <b>06/02/96 09:39:34</b> |                 |
| (Site text - up to 40 characters) |                          |                 |
| (Site text - up to 40 characters) |                          |                 |
| <b>Alarms</b> :0                  | <b>Faults</b> :0         | <b>Cond.:</b> 0 |
|                                   | <b>P</b> :1              | <b>X</b> SDZ    |

5.2 Press SILENCE BUZZER to silence the panel buzzer and acknowledge the pre-warning.

5.3 Investigation should be carried out into the cause of the pre-warning condition.

5.4 RESTORE TO NORMAL

5.4.1 *When the pre-warning condition is under control, then the fire panel can be brought to a normal condition by turning the keyswitch to  and pressing the RESET push-button.*

5.4.2 *If a pre-warning condition re-occurs, then one of the following exists:*

- *The condition is not under control - Refer to 5.3 above*
- *Detectors are contaminated with smoke - Clean detectors*

5.4.3 *Reset the fire panel as per 4.6.*

## 6. IN CASE OF FAULT

6.1 The yellow lamp opposite FAULT indicates that a fault has occurred in the fire system.

6.2 Press the SILENCE BUZZER push button to silence the internal panel buzzer.

6.3 The nature of the fault is further displayed by a yellow lamp opposite:

6.3.1 *A particular zone - Call maintenance engineer.*

6.3.2 *SUPPLY FAULT - Check mains supply and battery.*

6.3.3 *SYSTEM FAULT - Call maintenance engineer.*

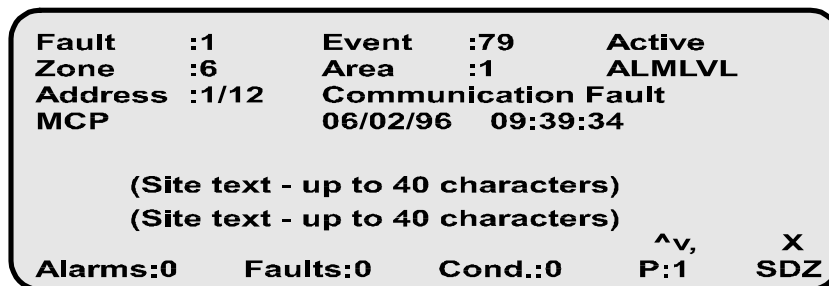
6.3.4 *DISABLE - A zone, loop or device has been disabled.*

6.3.5 *TEST - A specific zone has been placed in test mode.*

6.3.6 *FAULT/DISABLE under SOUNDER - The warning bell or sirens have been disabled or a fault is present on the connection.*

6.3.7 *FAULT/DISABLE under FIRE BRIGADE - The FIRE BRIGADE warning has been disabled or a fault is present on the connection.*

6.4 The exact nature and location of the fault is displayed on the LCD screen as shown below:



## 7. ROUTINE MAINTENANCE

In order to ensure the reliable operation of the FP2000 Series systems, they should be regularly tested and serviced.

The following maintenance routine should be adopted:

### 7.1 DAILY

On a daily basis the user should check the following:

*7.1.1 that the panel indicates normal operation, or if not, that any fault indicated is recorded in the logbook and reported to the maintenance personnel;*

*7.1.2 any fault warning recorded the previous day has received attention;*

*7.1.3 that the printer ribbon and paper supply are adequate (if applicable), or else replace as shown in Appendix A.*

### 7.2 QUARTERLY

On a quarterly basis the following actions should take place:

*7.2.1 logbook entries should be checked and the necessary action taken;*

*7.2.2 the state of the batteries and corresponding connections should be checked;*

*7.2.3 the fire panel should be visually inspected for signs of moisture ingress and other deterioration;*

*7.2.4 the alarm, fault and ancillary functions of the fire panel should be tested.*

### **7.3 YEARLY**

At least once every year the following should be checked:

- 7.3.1 the inspection and test routines recommended daily and quarterly should be performed;*
- 7.3.2 each detector should be checked for correct operation in accordance with the manufacturer's recommendations;*
- 7.3.3 a visual inspection of all cable fittings and equipment should be undertaken to ensure that no damage has taken place;*
- 7.3.4 a visual inspection should be made to ensure that no structural or occupancy changes have affected the requirements for the siting of the manual call points, detectors and sounders.*