

### Introduction

The “loop powered” Alarm Acknowledgement Facility (AAF) is designed to work in conjunction with the Ampac **FireFinder** Fire Alarm Control Panel (FACP) and Apollo analogue detectors.

Reduction (or elimination) of unwanted alarms require the occupant of the room to manually acknowledge an alarm when it occurs which will silence local audible warning devices activated as a result of an incipient fire.

ConfigManager (CFM) is programmed to identify the associations of AAF’s with audible devices and adjustment of the “Acknowledgement” and “Investigation” periods.

When an alarm condition occurs in a room, the sounder at the local AAF is activated. At this stage the signal to the fire brigade is inhibited and the 0 to 60-second “Alarm Acknowledgement Period” is activated.

During the alarm acknowledgement period the occupant of the room can acknowledge the alarm by pressing a button located on the AAF. Acknowledging the alarm will silence the local sounder and activate a secondary timer called the 0 to 180-second “Investigation Period”.

At the end of the investigation period the AAF is interrogated. If the alarm condition still exists, the **FireFinder** will go into general fire alarm mode thereby activating the signal to the fire brigade and emergency warning system. The **FireFinder** will also go into general fire alarm mode if the local alarm was not acknowledged within the alarm acknowledgement period.

### AM Features

- ✓ Loop interface with Short Circuit Isolator (SCI)
- ✓ On-board Hush Switch with integrated front panel Fire LED (red) and external hush input
- ✓ Indicators: Poll / SCI LED (green – behind cover), Fault LED (yellow – behind cover)

<b>Operating Voltage</b>	Standard Loop Voltage – range nominally 21 to 28 VDC
<b>Quiescent Current</b>	950µA
<b>Additional Operational Currents</b>	Ext “Hush” enabled +100µA Poll LED “ON” steady +2mA Alarm LED “ON” steady & buzzer sounding – Ia = <8mA total
<b>Alarm Acknowledgement Period</b>	Adjustable between 0 to 60
<b>Investigation Period</b>	Adjustable between 0 to 180

### Indicators

There are 3 on-board status indicators:-

Name	Description	Colour
<b>Alarm LED</b>	Constantly illuminated device in Alarm, flashes during the investigation period	Red
<b>Fault LED</b>	Constantly illuminated when the device is in a fault condition ( <i>except SCI Fault</i> )	Yellow
<b>Poll/SCI LED</b>	Constantly illuminated when there is a SCI fault. When in Poll LED mode (DIP switch enabled), Poll LED flashes when polled by the FACP.	Green

*Note: The red Alarm LED is visible from the front, the yellow and green LEDs are only visible when the cover plate is removed.*

### Installation

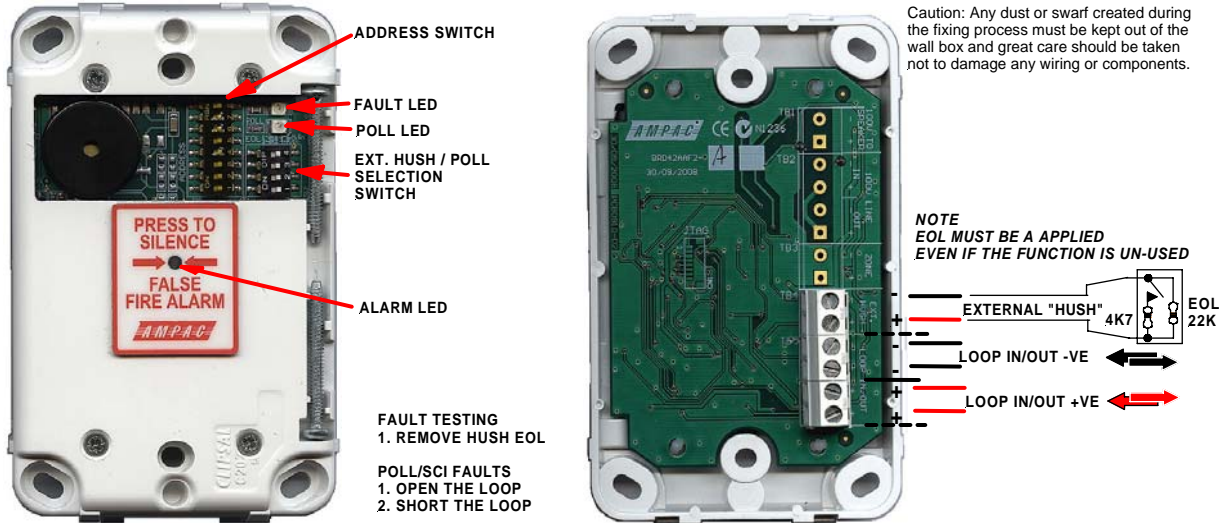
Two DIP switches are provided, SW2 for addressing (8 way) and SW1 for module options (4 way) as below.

DIP SW1	Name	Operational Parameters
<b>1 &amp; 2</b>	Not used	
<b>3 Ext. Hush</b>	Ext. HUSH Input	ON for monitoring the External Hush Input
<b>4 Poll</b>	Poll LED	ON for Poll LED operation

- i. Establish the operational criteria for the module and configure the FACP software accordingly
- ii. Remove the white face plate and set the address and operational parameters via the dip switches
- iii. All cabling should be run into a general purpose wall box and connected as per *Figure 1* below
- iv. The AAF is then screwed to the wall box and tested – replace the face plate once testing is complete

**Testing**

- i. Prepare the most suitable situation for the installation to test the AAF then create a local "alarm"
- ii. The alarm indicator should illuminate when the alarm is recognised by the AAF
- iii. Check the silence function, the configured "Acknowledgement" and "Investigation" timing
- iv. Introduce a fault condition eg 1. remove the "Ext. Hush" EOL, 2. check short circuit isolation operation.



**Addressing DIL Switch Settings**

addr	1234567	addr	1234567	addr	1234567	addr	1234567	addr	1234567
1	1000000	26	0101100	51	1100110	76	0011001	101	1010011
2	0100000	27	1101100	52	0010110	77	1011001	102	0110011
3	1100000	28	0011100	53	1010110	78	0111001	103	1110011
4	0010000	29	1011100	54	0110110	79	1111001	104	0001011
5	1010000	30	0111100	55	1110110	80	0000101	105	1001011
6	0110000	31	1111100	56	0001110	81	1000101	106	0101011
7	1110000	32	0000010	57	1001110	82	0100101	107	1101011
8	0001000	33	1000010	58	0101110	83	1100101	108	0011011
9	1001000	34	0100010	59	1101110	84	0010101	109	1011011
10	0101000	35	1100010	60	0011110	85	1010101	110	0111011
11	1101000	36	0010010	61	1011110	86	0110101	111	1111011
12	0011000	37	1010010	62	0111110	87	1110101	112	0000111
13	1011000	38	0110010	63	1111110	88	0001101	113	1000111
14	0111000	39	1110010	64	0000001	89	1001101	114	0100111
15	1111000	40	0001010	65	1000001	90	0101101	115	1100111
16	0000100	41	1001010	66	0100001	91	1101101	116	0010111
17	1000100	42	0101010	67	1100001	92	0011101	117	1010111
18	0100100	43	1101010	68	0010001	93	1011101	118	0110111
19	1100100	44	0011010	69	1010001	94	0111101	119	1110111
20	0010100	45	1011010	70	0110001	95	1111101	120	0001111
21	1010100	46	0111010	71	1110001	96	0000011	121	1001111
22	0110100	47	1111010	72	0001001	97	1000011	122	0101111
23	1110100	48	0000110	73	1001001	98	0100011	123	1101111
24	0001100	49	1000110	74	0101001	99	1100011	124	0011111
25	1001100	50	0100110	75	1101001	100	0010011	125	1011111
								126	0111111