Ampac

Fire detection and evacuation solutions that save lives.

Apartment Module (AM)

Installation guide

MAN1570-3

Description

The Apartment Module (AM) is a loop powered addressable device that helps reduce the costly consequences of an unwanted alarm

An occupant is able to silence a local audible warning, activated by a local smoke detector, and allowing a preset time to investigate the cause of the alarm. Local smoke detectors can be connected directly to the AM (conventional) or connected to the addressable loop (addressable) and assigned to the AM.

The local smoke detector is self resetting and if the smoke clears, then the system will return to normal. If the smoke remains, then the local audible warning will resound at the expiry of the preset timeout. A local smoke detector will NOT cause a general fire alarm.

The fire system will go into general fire alarm (thus calling the brigade) if:

- Any thermal detector has gone into alarm (conventional connected to the AM or addressable connected to the addressable loop)
- Any smoke detector in common areas has gone into alarm
- Any call point activated

ConfigManager is programmed to identify the associations of AM's with the local smoke detectors (conventional and addressable) and adjustment of the "Investigation" 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)
- 100V Line output with EOL monitoring
- Conventional Zone circuit with selectable EOL

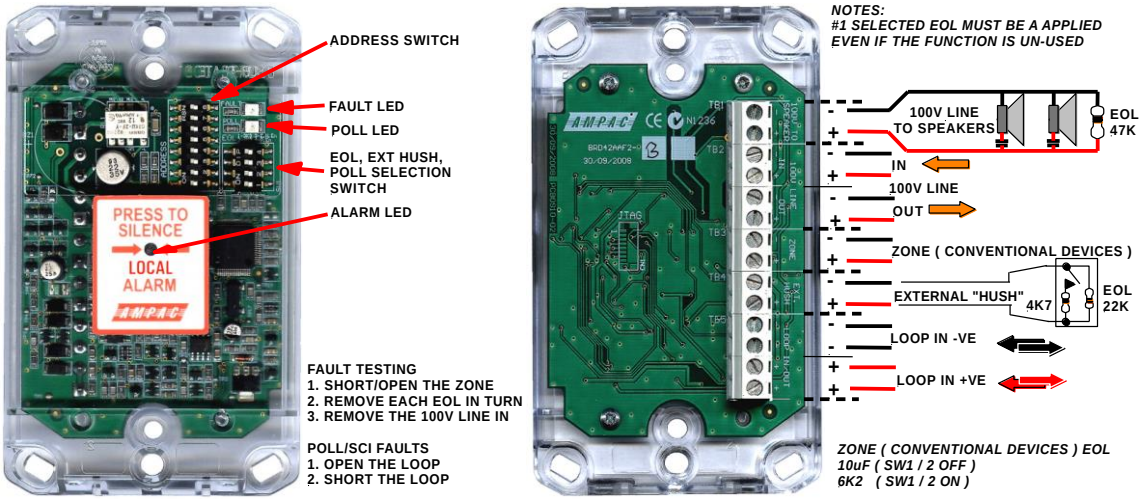

Figure 1: Apartment Module general wiring

Installation

Observe anti-static precautions at all times

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

DIP SW1	Name	Operational Parameters
1	Not used	
2 EOL	Zone EOL selection	2 off: EOL = 10uF (default setting) 2 on: EOL = 6K2
3 Ext. Hush	Ext. HUSH Input	ON for monitoring the External Hush Input
4 Poll	Poll LED	ON for Poll LED operation

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

Testing

1. Prepare the most suitable situation for the installation to test the AM then create a local “alarm”
2. The alarm indicator should illuminate when the alarm is recognised by the AM
3. Check the silence function, the configured “Acknowledgement” and “Investigation” timing
4. Introduce a fault condition eg 1. remove the “Ext. Hush” EOL, 2. check short circuit isolation operation.

Addressing DIL Switch Settings

DIL switch setting		DIL switch setting		DIL switch setting		DIL switch setting		DIL switch setting	
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