Ampac

8 Zone Conventional Board

Item Number: 4310-0082

Installation guide

introduction

The 8 Zone Conventional Board Fast Fit Kit consists of:

- 1 x 8 Zone Conventional Board
- 1 x 220mm RJ45M Comms / power Cable
- 1 x 250mm 2 way IDT Power Cable
- 4 x 3 x 6mm self tap screws (only required for the ABS cabinet)
- 4 x M3 x 6mm screws (only required for the metal cabinet)
- 4 x standoffs (only required for the metal cabinet)
- 8 x 3K3Ω EOL resistors
- 8 x 10uF 50V Bi-Polar EOL Capacitors

Description

The 8 Zone Conventional Board provides 8 monitored conventional zones. Each zone can accommodate up to 40 conventional detectors (32 in UK) and can be programmed to function in one of the following modes:

- Normal (Latching)
- Non-Latching
- Self Reset
- Dependency A, B and C
- Investigation

The board has a programmable End Of Line (EOL) feature that allows either a 3K3Ω, 4K7Ω, 6K8Ω or 10KΩ resistor value to be used on all zones. Alternatively, the EOL can be a 10uF capacitor which is required to support the head removal feature when Apollo diode bases are used on the conventional zone.

Note: If using 10uF EOL with NZ 1997 MCP's the Alarm activation time will be outside the NZS 4512 standards

Installation

Observe anti-static precautions at all times

Power down and disconnect the batteries

ABS Cabinet (new battery cabinet may be required if a lower backpan mounting position is used)

1. Mount the board on suitably spaced moulded backpan bosses using the 4 x 6mm self tap screws.

Metal Cabinet (standoffs fitted to lower left hand side of the backpan)

2. If necessary fit the stand offs to the suitably spaced captive nuts in the lower right hand side backpan position

3. Mount the board onto the standoffs using the 4 M3 x 6mm screws

Connecting to the FACP

1. Using the supplied Comms cable connect CN2 on the 8 Zone Board to the RS485 Comms out of the CIE main board or previous internal backpan board.

2. Connect power cable from CN8 of Main Brd to CN4 of the Zone Brd. See Figure 1

3. Bring the field cabling into the FACP through a suitable knockout and terminate to the required Zones (TB1, TB2).

4. Set Address SW (Addresses 1 to 15 can be used). See Figure 2

5. Power up the panel and reconnect the batteries

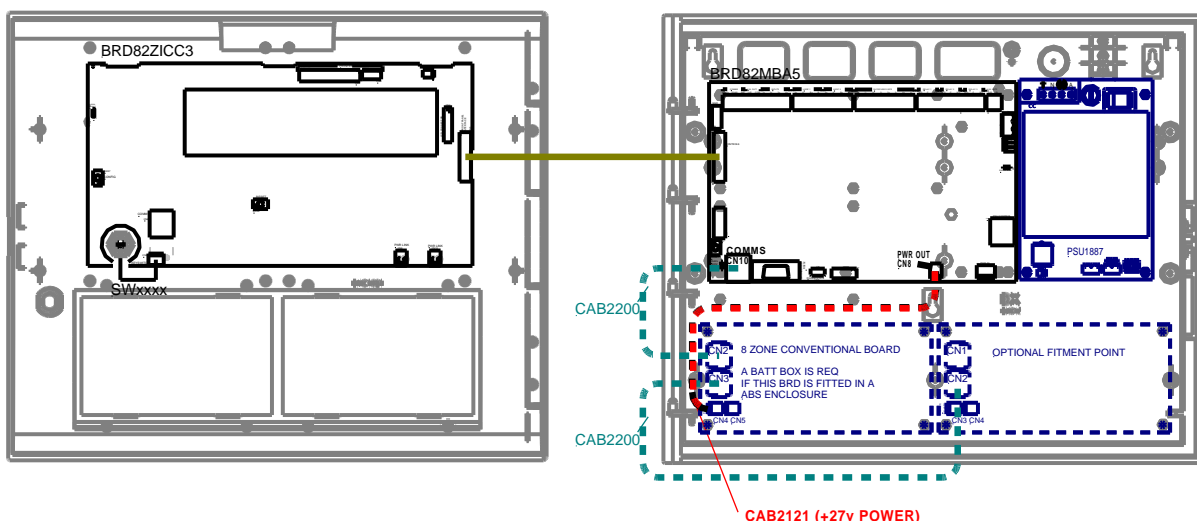6. Program the 8 Zone Board using LoopMaster or ConfigManager Tool.

7. Test

Figure 1: Example of Internal Cabling of the Loopsense (ABS cabinet)

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Connection and Settings

CN2   RS485 Comms In from the previous RS485 Comms output or CN10 (Comms out) of the Main Control Card

CN3   RS485 Comms Out to RS485 Comms In of the next RS485 Add-On board.

CN4   27 Volts from available internal Power Connector.

CN5   Optional 27 Volts to the next RS485 Add-On board

TB1/2   8 Zone circuits

SW1   Address set SW as shown in Figure 1

LK1   EOL Link fitted to the last board in the chain

Note 1: Each Zone cct MUST be terminated with either 3K3, 4K7, 6K8, 10K Ohm resistor or 10uF 50V Bi-Polar Capacitor EOL.

Note 2: If Diode Bases are used ONLY the 10uF CAP can be used

Address Switch Setting (SW1)

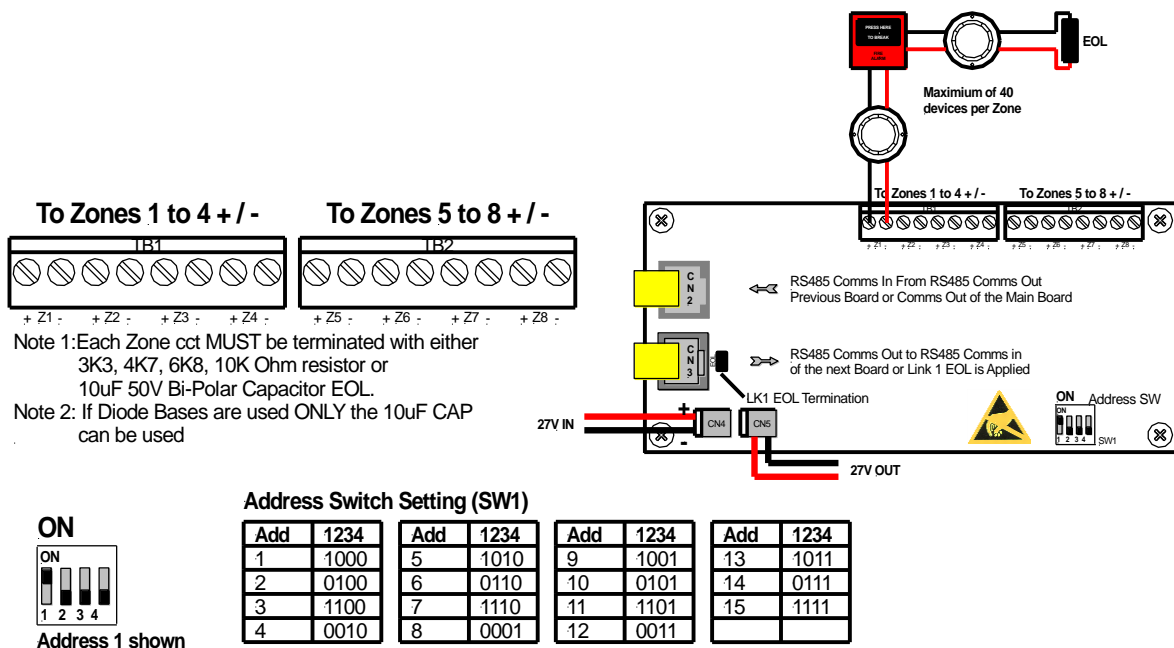| Add	1234	Add	1234	Add	1234	Add	1234
1	1000	5	1010	9	1001	13	1011
2	0100	6	0110	10	0101	14	0111
3	1100	7	1110	11	1101	15	1111
4	0010	8	0001	12	0011		

Figure 1: 8 Zone Conventional Board PCB Layout