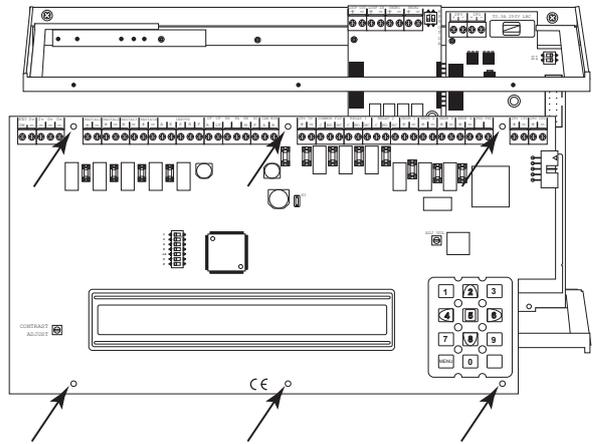


INSTALLATION INSTRUCTIONS FOR FUSION LOOP & RADIAL CARDS (TPCFSB11 & TPCFSB18)

1. Before installation, ensure that the panel firmware is compatible with the new loop or radial cards, it may be necessary to update the panel before proceeding. Please check with our technical support department if unsure.
2. Disconnect the mains (230vac) supply and the batteries to power down the panel completely.
3. Remove the main PCB from the chassis frame by undoing the 6 self tapping fixing screws (it is not necessary to remove any of the wiring).

4. Remove the new loop or radial card from its packaging, ensuring you are wearing adequate static protection equipment.

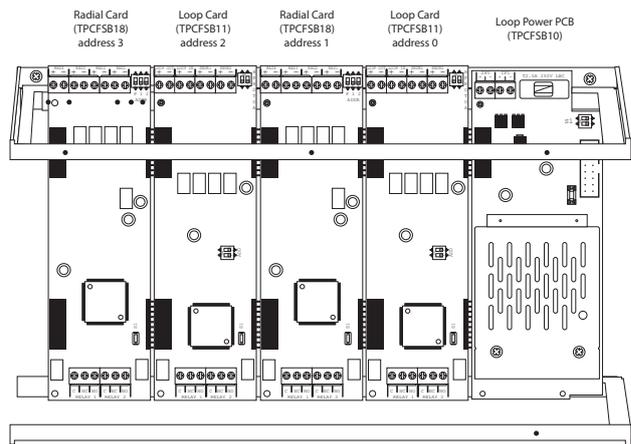
Electronic components are vulnerable to damage by Electrostatic Discharges (ESD). An ESD wrist strap, suitably grounded, should be worn at all times when handling pcbs.



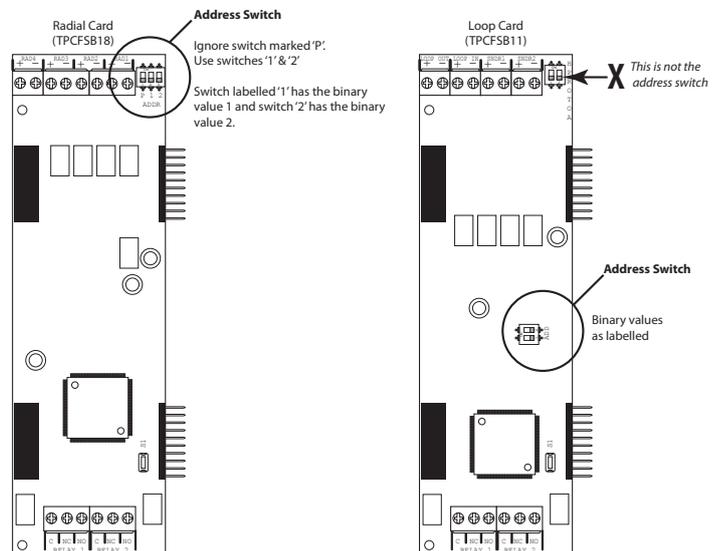
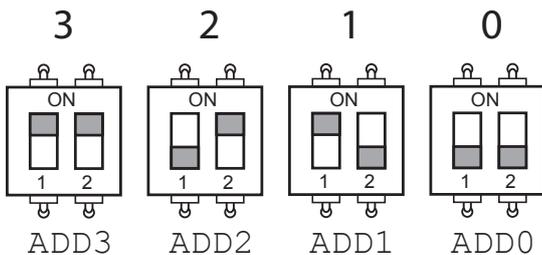
5. Set the address switch on the new loop or radial card.

Loop and radial cards should be addressed in sequence from 0 - 3 (right to left). For example, the first card fitted to the furthest right is always the loop power card (TPCFSB10). This card is factory fitted as standard. The next card fitted to the left of it should be address 0, then address 1, 2 & 3.

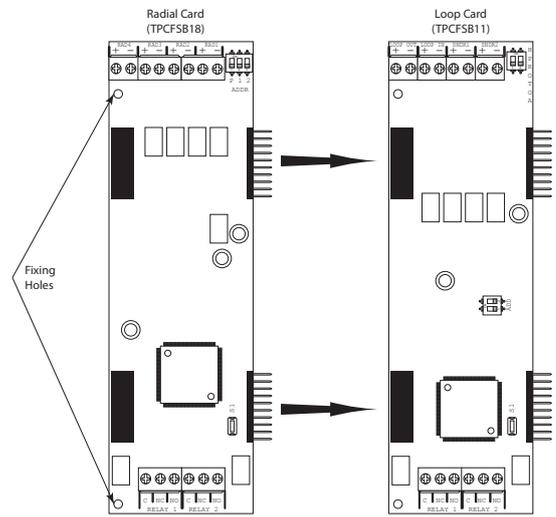
It doesn't matter which order the loop and radial cards are fitted i.e. the first card (0) could be a loop card, the next (1) could be a radial card and the next (2) another loop card.



Cards are addressed using a small DIL switch, the location of the switch is slightly different on the loop and radial cards. The address is set using binary i.e. both switches off = 0 etc. See below for details.



- Slide the new card into place by fitting the connector pins into the adjacent sockets on the card to the right. Ensure pins are correctly aligned. Secure the card to the chassis frame via the two fixing holes using self tapping screws (supplied).
- Refit the main PCB using the 6 self tapping screws and check all cables and connections.
- Power up the panel by reconnecting the mains (230vac) supply and the batteries

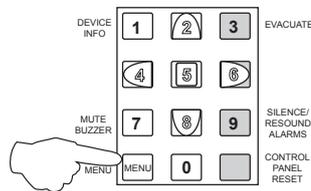


Finally the panel needs to be set up for the new card(s).

At this point it is necessary to turn on the programming switch on the main PCB. This is the DIL switch marked 'P' which can be found in the centre left of the main circuit board (near the LCD)



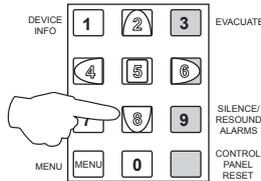
Now press the MENU button on the keypad



LCD will display as below



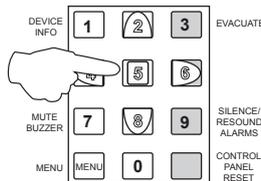
Press the ARROW DOWN button [8] until menu option 12 is shown



LCD will display as below



Press the ENTER button [5]



The LCD will ask for a 4 digit code

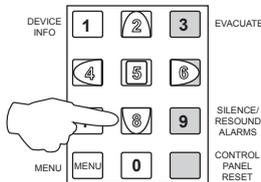


Enter code 1 - 9 - 5 - 0

Once the [0] button has been pushed the LCD will display



Press the ARROW DOWN button [8] on the keypad until the LCD displays option 4, PANEL PARAMETERS



Press ENTER button [5]. Now use the UP or DOWN buttons to get to MENU option 7: 'SET NUMBER OF BOARDS'

Press ENTER button [5] again and then use the UP or DOWN buttons to change the set number of loop & radial cards.
Number of boards = Main PCB + No. of Loop Cards + No. of Radial Cards

To exit programming mode Press MENU button three times or hold it down for 5 seconds and switch off programming DIL switch. LCD display should return to normal.

