

C1437 4 Way Alarm Extender Board

Application, Installation and Commissioning Manual

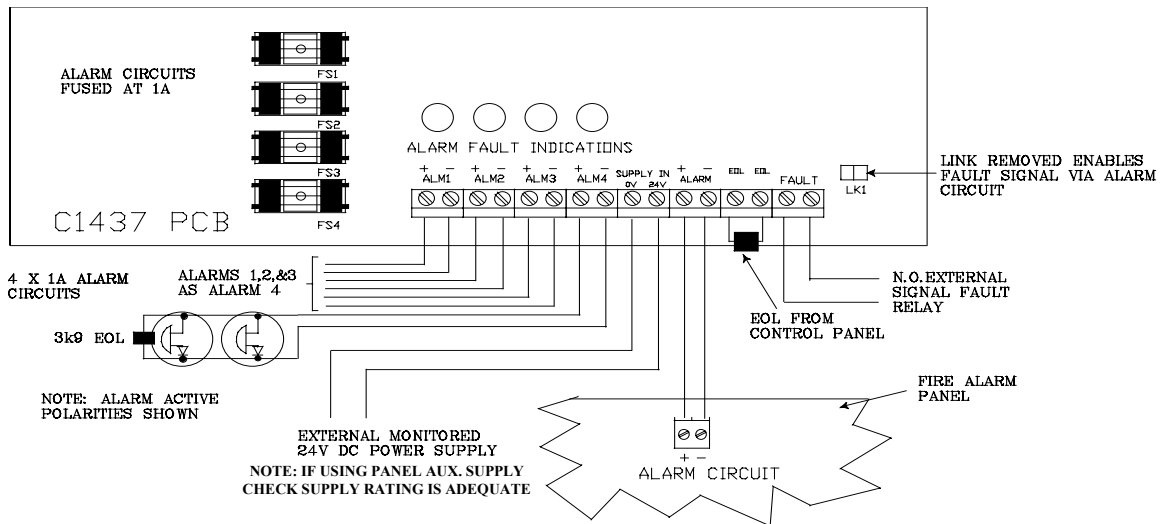
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1.0 Introduction

The C1437 alarm extender board provides the facility to split one input from a fire alarm control panel's alarm circuit into four output circuits.

1.1 A Guided Tour

1.1.1 C1437 4 Way Alarm Extender Board



2.0 Installation Instructions

- 2.1 Ensure that power to the control panel and the power source used to power the alarm circuits are switched off.
- 2.2 Fix the C1437 board to the enclosure as required.
- 2.3 Fit and connect two wires from the alarm output terminals on the control panel to the terminals marked ALARM + and ALARM - on the C1437 board, taking care to observe polarity.
- 2.4 Connect the field wiring from the external alarm circuits to the terminals marked ALM+ and ALM- on the C1437 board taking care to observe polarity.
- 2.5 Fit and connect two wires from the 24 volt DC power source that is intended to power the alarm circuits and connect to the terminals marked 0V and 24V on the C1437 board, taking care to observe polarity.(Check that the power supply rating is adequate)
- 2.6 Fit a resistor to the terminals marked EOL on the C1437 board (the correct resistor can be found in the spares bag for the control panel - it will either be 3k9 or 4k7 depending on the panel type).
- 2.7 If remote fault monitoring is required, then connect the wires to the terminals marked ALARM FAULT P and ALARM FAULT N/O (this is a voltage-free relay contact - normally open which closes on a fault condition).
- 2.8 If fault indication is required at the control panel, then remove the link marked LK1. This will signal any alarm circuit fault via the control panel's alarm circuit.
- 2.9 Ensure that end of line resistors (3k9) are fitted in the last device on each alarm circuit.
- 2.10 Ensure that end of line resistors are fitted in the terminals of all unused alarm circuits.

3.0 Commissioning

3.1 Restore power to the control panel and to the C1437 board (if not powered from the control panel).

3.2 Observe that the panel and the C1437 board are in a quiescent condition.

3.3 Press the Test Alarms/Evacuate switch on the control panel and observe that the sounders operate.

3.4 Silence the alarms.

3.5 Simulate the following faults on the alarm circuit wiring of each circuit in turn.

- (i) Open circuit fault
- (ii) Short circuit fault

Observe the following:

- (i) The relevant ALARM FAULT LED on the C1437 board illuminates
- (ii) The alarm fault relay on the C1437 board changes state
- (iii) If LK1 is removed, the control panel indicates an alarm fault

3.6 Remove all faults and observe that both the control panel and the C1437 board return to the quiescent condition.

3.7 Remove the wire connected to the +24V terminals on the C1437 board and observe the following:

- (i) If LK1 is removed, the control panel indicates an alarm fault.
- (ii) The alarm fault relay on the C1437 board changes state.

3.8 Reinstall the wire to the +24V terminal.

Appendices

i Technical Specifications

Supply voltage	24V DC
Alarm circuit current	1 Amp per circuit
Maximum supply current	4 Amps
Alarm circuit output monitoring	3k9 EOL open & short circuit

ii Other Relevant Documentation

Application Guide/Installation & Commissioning Manual for CB200 control panel
Application Guide/Installation & Commissioning Manual for Precept control panel
Application Guide/Installation & Commissioning Manual for Duplex 1-2 loop control panel
Application Guide/Installation & Commissioning Manual for HP900 control panel
Wiring Recommendations
After-Sales Technical Support Booklet