

Order Number

Serial Number

PRODUCT/TEST MANUAL

1A51K1

CEB ALARM MODULE TYPE 5

Issue Level	Date	Summary of changes
A	30/04/1999	Initial issue.

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Author	Checked & Registered	.pdf file created	Released
ERL	MW	MW	

1. BROAD DESCRIPTION

The 1A51K1 is a alarm module which gives a flashing red lamp when an 120 volt alarm signal is received. The operator acknowledges the alarm by pressing the push button while it is flashing. This changes the flashing red lamp to a steady white lamp condition. If the fault has been cleared then both lamps will extinguish. Two normally open contacts are available for alarm signalling status.

2. SPECIFICATION

Auxiliary Supply Voltage 120V DC +10%
 -20%

Auxiliary Supply Burden (at 110V) <2W output relay dropped out

Ambient Temperature Range -5°C to 55°C

Make and Carry Continuously

1200 VA AC resistive with maximums of 250 Volt and 5 Amp

AC Break Capacity

1200 VA AC resistive with maximums of 250 Volt and 5 Amp

Maximum Contact Capacity (Amps)

	DC	AC
Voltage	30	240
Resistive	5	5
Inductive L/R 7 ms	2	1.2

3. TEST EQUIPMENT REQUIRED

DC Auxiliary Supply

4. ASSOCIATED DRAWINGS

150-051-101 Wiring Diagram
 660-180-201 Circuit Diagram PCB
 660-180-301 Loading Diagram PCB

5. HIGH VOLTAGE TESTING

Apply 1.5 kV RMS between terminals A & B as listed in table 1 below.

Table 1

A	B
1 – 4, 7,8	5,6,9,10
All terminals	Frame

6. CALIBRATION & TEST PROCEDURE

- a) Connect 120 VDC to terminal1 (Control +)
- b) Connect 0 volts to terminal 4 (Common -)
- c) Connect 120 VDC to terminal 2 (Lamp +)
- d) Connect a flashing 0 volts to terminal 3
- e) Connect a buzzer or other type of indicator to terminals 9 & 10 and terminals 5 & 6
- f) Simulate an alarm by connecting 120 VDC to terminal 7
- g) RL1 should operate an hold in and the red lamp in the switch should flash.
- h) The indicator connected to terminals 9&10 and 5 & 6 should show continuity.
- i) Operate the push button and the lamp in the switch should stop flashing red and revert to a steady white lamp.
- j) Remove the connection from terminal 7 and the white lamp should turn off.

7. GENERAL & FUNCTIONAL

- a) Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026.

PASS

TESTED BY: _____ DATE: _____

8. CONNECTION DIAGRAM

