

CHANNEL SAFETY SYSTEMS

Brook Self Test Unit LED Indicators

Normal Operation – Green LED on

Auto test/Dishcharge – Green LED off – Main LEDs on.

Fault indicators

Red flashing LED

Twice every 3 seconds –LED/Changeover fault

Three times every three seconds – Duration test fail

PCB SWITCH

The PCB mounted switch has two functions.

1. Press the switch for 1 second sets the time the unit will carry out the self test function (This allows the user to choose a convenient time for the unit to carry out the test.)

2. Press the switch for 3 seconds starts a 5 minute test.

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EMERGENCY LIGHTING LUMINAIRE INSTRUCTIONS & TEST PROCEDURES

IM4 Instructions Brook Mk2 & Brook Self Test Mk2

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EMERGENCY LIGHTING LUMINAIRE INSTRUCTIONS

1. Remove the screws which hold the diffuser to the body.
2. Release gear tray by moving the two retaining hooks.
3. Fix base to wall or ceiling either direct or via conduit box, having cleared an access hole in the body for the cable. If IP65 protection is required use a weatherproof gland to seal the cable.
4. ISOLATE THE A.C. SUPPLY and connect unit. An unswitched 240V A.C. supply must be connected to the Live (L), Earth and Neutral (N) terminals on the PCB block. On Maintained circuits illumination can be achieved by connecting a live (switched) input, or a link between L and L1 either locally or through a remote switch. L1 is the switched live input terminal
5. Plug battery lead into connector on the PCB.
6. Re-secure the gear tray into the base of the unit making sure that the mains cable is not trapped by the PCB etc.
7. Refit the diffuser using the two screws.
8. Operational Check – Restore the A.C. Supply for 30 minutes and then remove. The LEDs should illuminate for at least 10 seconds.
9. Restore the A.C. supply and check that the indicator LED is 'on'.

ENSURE FITTING IS CHARGED FOR A MINIMUM OF 24 HOURS PRIOR TO TESTING

OPERATION

NON-MAINTAINED

LEDs normally off and battery on automatic charge (Green LED 'on') when A.C. Supply is healthy. Solid state circuitry automatically switches lamp on when A.C. supply is interrupted.

MAINTAINED

LEDs normally on, when the supply to L1 is switched on. The battery is on automatic charge (Green LED 'on'). Lamp will switch on or remain on if A.C. Supply is interrupted.

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MONITORING

Green indicator lamp (LED) normally continuously 'on'.

BATTERY

Sealed Nickel-Cadmium rechargeable battery pack.

TEMPERATURE

Performance figures measured at 25 degrees C.

FAULT FINDING AND CORRECTIVE ACTION

MONITORING LED NOT ILLUMINATED

A.C. Supply not healthy. Battery not connected. Charger failed.

UNIT NOT MEETING REQUIRED EMERGENCY PERIOD

May need cycling: Discharge then recharge for 24 hours. Re-test, Battery pack may need replacing if emergency duration still not met.

LEDs NOT FULLY ILLUMINATED

If the LEDs are not illuminated check connections & if correct either the battery pack or (less likely) the printed circuit board needs replacing.

'Self-Test' fitting – Function (option).

When the self test fitting is installed the light will:

- Carry out a monthly 10 minute function test.
- Carry out a 3 hour yearly duration test

The light will monitor for the following faults:

- Battery disconnection
- Charger fault
- Main LED array failure

Battery/Charger fault - 1 Red LED flash every 2 seconds

LED Array fault - 2 Red LED flashes every 2 seconds

In the event of a fault, the Green LED indicator will change to a red flashing LED