

E.E.L.B. Testing System - Notes.

REMOTE ALARM OPTION

An optional relay (part # EELB-2002-RO) can be fitted into the EELB to give a volt-free contact as an output for remote timing functions. The contact will close for 1 second at the 90-minute period for any zone under test and close for 3 seconds at the end of any test. The relay output is rated at 250VAC, 2A.

NOTE: Use of a relay other than that specified may cause damage to the EELB-2002.

Use only the part#: **EELB-2002-RO**

POWER FAILURE DURING A TEST

At the restoration of the power following mains power loss, all modules will automatically switch ON and all timing of zone tests running prior to the mains failure are lost leaving the EELB controller in the reset condition.

EELB-2002 DEMO MODE

To allow quick demonstration of the EELB system a DEMO mode can be activated in which 1 minute of timing is simulated by 1 second of time (approx.). The PCC signals and alarm sounding are still active so that a light fitting setup with a PCC module will show the remote power off and on activity of the EELB test system. To activate demo mode press and hold the ENTER push-button (black) of the EELB-2002 while power is switched on to the unit. Release the button when the EELB-2002 sounds a beep tone.

Dimensions:

Length: 220 mm

Width: 50mm

Depth: 85mm

Weight: 1.5 Kg

Supplied with a flexible lead and 3 pin plug top.

Can be permanently wired.

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EELB-2002

Emergency and Exit Light Battery Tester



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E.E.L.B. Testing System - Summary

It is a requirement, that all Publicly Occupied Buildings have Emergency & Exit lights tested every 6 months, to ensure that they will run under power failure conditions, for a minimum of 90 minutes. (refer Australian Standard AS2293.2, 1995)

The E.E.L.B. Testing System is designed to enable the Emergency & Exit lights connected to a mixed circuit to be checked without having to turn off the lights that are not part of the system.

This is achieved by placing a PCC module in each light fitting, enabling it to be remotely switched by the E.E.L.B. controller.

The E.E.L.B. System incorporates a micro-processor controller, programmed to selectively switch Zones of Emergency / Exit lights ON and OFF, via the PCC module located in each fitting. This is accomplished without the need to install additional wiring to the light fitting.

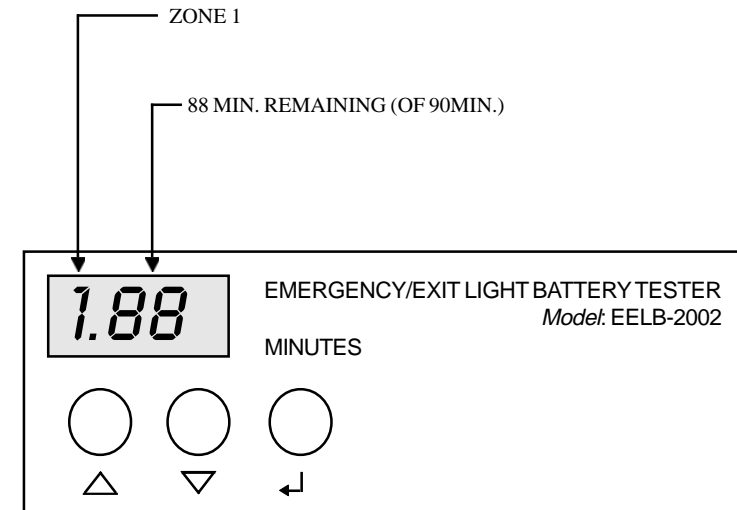
On depressing a Zone button on the EELB controller a PCC OFF Powerline Carrier signal is sent to the modules in the light fitting located in the Zone being tested, turning it OFF. At the same time the EELB micro-processor is activated and it commences timing. At the 90 minute period it sounds a local buzzer alarm and momentarily energises an output to control a remote relay (optional). At this point a further 20 minute timing function is initiated to enable the lights to be checked and the defective batteries identified.

At the completion of the 20 minute period the module in the light fitting being tested will automatically turn back ON.

The defective batteries can be replaced as required.

E.E.L.B. Testing System - Operation

Once testing is initiated by pressing one of the four red Zone buttons, the EELB will display the zone number and the remaining test time, in minutes, in the LED display.



Zones can be tested individually or simultaneously and the test progress for a particular zone can be displayed by pressing either of the UP or DOWN arrow buttons (green). The 90-minute warning alarm and the 110-minute test complete alarm will sound for any zone irrespective of its progress being displayed.

Once a zone is running the EELB continuously sends PCC OFF signals every 10 minutes only to the zone(s) under test.