

MEMIE A'ASIA

RCD - "SAFETY SWITCH" TESTER



TRUE TRIPPING
TIMES &
ACTUAL
SENSITIVITY
FOR
MEDICAL (10mA)
& DOMESTIC
(30mA) RCDs.

TESTS PERFORMED BY THE INVENTIVE ELECTRONICS RCD TESTER

SENSITIVITY: The IE RCD Tester will ramp the current from zero until RCD trips giving the precise tripping current. (Sometimes referred to as the minimum tripping current.)

TRIPPING TIME: The IE RCD Tester will provide the exact tripping current set, (10mA or 30mA), despite variations of supply voltages and displays the tripping times from the moment the button is depressed until the RCD trips. **IT IS NOT PHASE LOCKED TO THE MAINS AND WILL DISPLAY MINIMUM AND MAXIMUM TRIPPING TIMES.**
(Six Tripping Times per RCD recommended.)

EASY TO USE: Simply turn the tester on by selecting a 10mA or 30mA test, depress and hold rocker switch to “SENS” position for Sensitivity and after resetting the RCD, depress and hold rocker switch to “TIME” position for Trip Time.

VOLTAGE: 230V Models, (200V-264V) as standard.
110V Models, (80V - 140V) to order.

IEC SOCKET: IE RCD Tester fitted with a standard IEC mains plug and supplied with mating 2 metre cable for use in Australia & New Zealand.

Battery Powered: Unit is powered with a 9V Alkaline Battery.

DIMENSIONS	
Width	8 centimetres
Depth	4.5 centimetres
Height	16 centimetres
WEIGHT	
Unpacked	Unit 0.3 - Cable 0.2 kilograms
Packed	0.6 kilograms

Technical

After turn on & reset, selection of a test will initiate an internal check and monitoring program and then the test will be applied.

The Sense test will slowly ramp the current from zero until the RCD trips and this will take approx 3.5 seconds for the 10mA test and 4.5 seconds for the 30mA test. Different step intervals are used with the different tests and the steps are designed for the best repeatable accuracy.

The Time test will see the internal monitoring program read the mains voltage at the time of testing to apply the precise 10mA or 30mA current irrespective of the mains voltage, ($\pm 30V$), and when the current is applied, the time monitoring is started and stops when the RCD has tripped. The reading is then displayed.

Accuracy: Sense - minimum tripping current accuracy:

10mA Test - Reading $\pm 0.25mA$.

30mA Test - Reading $\pm 0.5mA$.

Time - Tripping Time @ rated Current

Rated Current @ 10mA $\pm 0.25mA$

Rated Current @ 30mA $\pm 0.5mA$

Reading $\pm 0.5mS$.

Additional Information

ERROR & OTHER OPERATIONAL MESSAGES:

A number of messages will be displayed during use of the tester.

- Reset & Normal Operation:** When a test level is selected, (10 or 30mA), the unit will turn on & reset. The display will show - - - - and it is now ready to perform a test. Correct operation after a test has been selected will show an ^ to indicate current flow. The sense or minimum tripping current will then be displayed in milliamps (mA) and the tripping times in milliseconds (mS).
- Error:** An Error message will appear if you do not hold the test button down until the test has been completed.
- Fail:** A Fail message will appear if no current flow is sensed during the test, (the GPO may not be switched on or the RCD not reset), or the RCD fails to trip on either the sense or time tests.
- Lo Battery:** Indicates that the battery has run low and the tester is about to shut down. Battery must be replaced to resume correct operation. Battery should last up to 14 Hours of continuous use and this equates to over 1500 RCD tests with one sense and six tripping time tests for each RCD.