

# **INVENTIVE ELECTRONICS**

**Australian Designed and Manufactured**  
**ELECSAFE MKIII AS/NZS3760**  
**ELECTRICAL SAFETY TESTER**



**FASTEST ELECTRICAL SAFETY  
TESTER CURRENTLY AVAILABLE.**  
Simple Single Button Press for selection of  
Class I, Class II & Lead testing or Data  
Storage. Automated Testing using Bar  
Codes. Four wire low ohms testing as  
required by some standards.

Inventive Electronics is a division of MEMIE A'ASIA Pty Ltd

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## FEATURES COMMON TO ALL MODELS

1. **Single push button press** to perform groups of tests.
2. Single Bar Code Scan for asset data entry and to perform test.
3. Single Bar Code Scan to enter change of test personnel or test site.
4. Individual tests can be manually selected and maintained.
5. Comments fields available for onsite costings or service codes.
6. Test number and comments review facility.
7. Basic Download Software provided with each unit.
8. Bar Code Software provided with each unit.
9. Testers can be driven directly from a portable computer.
10. Comprehensive Instruction Manual provided with each unit.
11. Twelve months warranty with free calibration at the end of the warranty period.

Class I & Class II Tests, Full Extension & IEC Moulded Lead Tests.

Load & Inrush Current, Insulation Resistance from probe to A/N or Earth.

Four wire milliohm & millivolt tests.

Tests can be performed with a single button press, single swipe of a barcode reader or can be driven from a palm or laptop computer.

**Single Push Button Tests** performed by each model:

ELECSAFE MKIII "1,2,3,4 & 5"

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## Fastest Electrical Safety Testing:

**Class I test: 15 seconds**

**Class II test: 13 seconds**

**Mains Lead test: 20 seconds**

**If you are serious about Electrical Safety Testing you will need to store the test data for client reports and quality or regulatory issues for Occupational Health and Safety etc.**

**The minimum data that you will be required to store apart from the actual test results will be:**

- 1. Date**
- 2. Time of test**
- 3. Person performing test**
- 4. Test site**
- 5. Equipment Identification or Asset Number**

**The ELECSAFE Tester saves all of this data and more.  
Below is a sample of the data stored in the ELECSAFE.**

Medical Equipment Management :ELECSAFE  
Model Number : AS/NZS3760 Full  
Serial Number : 200916  
Calibrated : 200916  
Device Owner : INVENT ELECTS

Test No	Date	Time	Tester Name	Location	D.U.T ID	Ground Resist ohm	Ins Res A+N to E Mohm	Earth Leak Normal mA	Ins Resist A+N to Skt Mohm	Active Resist ohm	Neutral Resist ohm	Ins Resist A to N Mohm	Test Pass / Fail	User Comment One
1	22/09/2000	17:26	KEVIN.O.BRIE	INVENT.ELECT	1TOASTER.1	0.385	199.9	0.01					Pass	
2	22/09/2000	17:29	KEVIN.O.BRIE	INVENT.ELECT	1TOASTER.2	0.136	199.9	0.02					Pass	CASE.CRACKED
3	22/09/2000	17:37	PETER.AMPT	INVENT.ELECT	2HAIR.DRYER.			0.003	199.9				Pass	FLUID.ENTRY
4	22/09/2000	17:38	PETER.AMPT	INVENT.ELECT	2DRILL.2			0.011	199.9				Pass	
5	22/09/2000	17:41	GREG.HELLARD	INVENT.ELECT	3M.CABLE2136	0.129	199.9			0.028	0.032	199.9	Pass	
6	22/09/2000	17:41	GREG.HELLARD	INVENT.ELECT	3M.CABLE1339	0.065	199.9			0.064	0.063	199.9	Pass	
7	22/09/2000	17:42	ALAN.PARKHIL	INVENT.ELECT	3M.IEC5.2449	0.096	199.9			0.098	0.1	199.9	Pass	
8	22/09/2000	17:44	ALAN.PARKHIL	INVENT.ELECT	3M.EXT.5547	0.196	199.9			0.199	0.204	199.9	Pass	REP.CABLE

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# ELECTRICAL SAFETY TESTS PERFORMED BY THE INVENTIVE ELECTRONICS AS/NZS3760 TESTER SINGLE PRESS TEST GROUPS

**1.**  
AS/NZS3760 - Class I (IR-500V)  
(i) Ground Wire Resistance  
(ii) Insulation Resistance A/N-E  
(iii) Earth Leakage Current  
Neutral Open.

**2.**  
AS/NZS3760 - Class II (IR-500V)  
(i) Insulation Resistance  
A/N – Socket  
(ii) Enclosure Leakage Current  
Neutral Open. (Via IR Socket)

**3.**  
Moulded IEC or extension  
Lead Tests (IR-500V)  
(i) Active Wire Resistance  
(ii) Neutral Wire Resistance  
(iii) Earth Wire Resistance  
(iv) Insulation Resistance A-N  
(v) Insulation Resistance A/N-E

**4.**  
AS/NZS3760 – Class I (IR-250V)  
(i) Ground Wire Resistance  
(ii) Insulation Resistance A/N-E  
(iii) Earth Leakage Current  
Neutral Open

**5.**  
Moulded IEC or extension  
Lead Tests (IR-250V)  
(i) Active Wire Resistance  
(ii) Neutral Wire Resistance  
(iii) Earth Wire Resistance  
(iv) Insulation Resistance A-N  
(v) Insulation Resistance A/N-E

**Advanced Tests: Other tests available are:**

1. Earth Leakage Current - Neutral Closed.
2. Insulation Resistance A/N to probe.
3. Insulation Resistance Earth to probe.
4. Load Current.
5. Inrush Current.

**SPECIAL ADAPTORS:** Special Lead Adaptors available for individual industry requirements such as those for Show Lighting.

**NOTE:** The Insulation Resistance test voltage is selectable as 250V or 500V for MK III. The 500V test will not damage any EMC protective devices in appliances or power boards.

DIMENSIONS	
Width	30 centimetres
Depth	30 centimetres
Height	17 centimetres
WEIGHT	
Unpacked	3.5 kilograms
Packed	6.5 kilograms

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