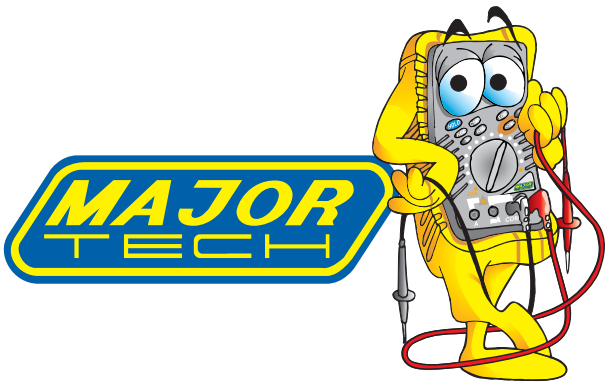
Multifunction Tester



Technical Data

K6011

The K6011 is a highly portable meter that provides the solution to testing electrical installations to the requirements of SANS 0142 and can perform five separate test functions which include insulation, continuity, earth loop impedance, prospective short circuit and RCD trip testing. The K6011 features Phase Angle selection, auto null of test leads for continuity, correct wiring status, testing of DC RCD's, and auto power off.

Features Include:

- 5 Test functions
- Microprocessor Controlled for Accuracy and Reliability
- Direct readout of PSC and Earth Fault Current
- Auto power off
- 0° and 180° phase angle selection
- Tests of a large range of RCD's
- DC tests for DC sensitive breakers
- Polarity switch for continuity tests
- Auto-null facility for continuity tests
- Earth probe for loop impedance testing on extraneous metalwork
- Contact voltage measurement
- Loop impedance test with 0.01Ω resolution
- Live circuit warning and visual indication of correct wiring status
- 250V, 500V and 1000V insulation ranges
- IP54 dust and water resistant casing

General Specifications

Dimensions	:	130 X 183 X 100 mm
Weight	:	1130g including batteries
Reference Conditions	:	Specifications are based on the following conditions exept where otherwise stated: 1. Ambient temperature: 23 ± 2°C 2.Relative humidity 45% to 75% 3. Position: horizontal 4. AC power source 230V, 50Hz 5. DC power source: 12.0V,ripple content 1% or less 6. Altitude up to 2000m
Battery Type	:	Eight LR6 ALKALINE batteries
Low Battery Warning	:	" ▭ " symbol appears in the display and the buzzer beeps if the battery voltage drops below the 7.8V
Operating Temperature and Humidity	:	0 to +40°C, relative humidity 80% or less, no condensation
Storage Temperature and Humidity	:	10 to +50°C relative humidity 75% or less, no condensation

SERIES

IEC 61010-1 CAT III 300V

IEC 61010-1 CAT II 600V

LIFETIME WARRANTY

General Specifications

LED indication of live circuit warning : Illuminates if there is an alternating voltage of 50V AC or more in the circuit under test before continuity or insulation resistance tests. When DC voltage is detected across the measuring terminal the LED lights up.

LED indication of correct polarity : The P-E and P-N LEDs illuminate when the wiring of the circuit under test is correct. The reverse lamp is lit when P and N are reversed

Auto Data Hold : In the loop impedance, PSC and RCD test functions, the LCD reading is automatically frozen for 3 seconds after measurement.

Display : The liquid crystal display has 3 ½ digits with a decimal point and units of measurement (Ω, MΩ, A, kA,V and ms) relative to selected function. The display is updated approximately five times per second.

Overload Protection : The continuity test circuit is protected by a 0.5A 600V fast acting (HRC) ceramic fuse mounted in the battery compartment, where a spare fuse is also stored. The insulation resistance test circuit is protected by a resistor against 1000V AC for 10 seconds.
On connecting test leads to the circuit under test on Loop, PSC and RCD ranges, the LCD reads V-PE. Sign "V-PE Lo" or "PE-Hi" is also shown when the voltage is 100V or less, or 260V or greater respectively.

Function	Open Circuit Voltage (DC)	Short Circuit Current	Range	Accuracy
Continuity	Greater than 6V	Greater than 200mA	20/200/2000Ω Auto-Ranging	± (1.5% rdg + 3dgts)
Function	**Open Circuit Voltage (DC)**	**Rated Current**	**Range**	**Accuracy**
Insulation Resistance	250V + 20% - 0%	1mA or greater @ 250kΩ	20/200MΩ Auto-Ranging	± (1.5% rdg + 3dgts)
	500V + 20% - 0%	1mA or greater @ 500kΩ	20/200MΩ Auto-Ranging	± (1.5% rdg + 3dgts)
	1000V + 20% - 0%	1mA or greater @ 1MΩ	20/200MΩ Auto-Ranging	± (1.5% rdg + 3dgts)
Function	**Rated Voltage (AC)**	**Nominal Test Current at 0Ω External Loop**	**Range**	**Accuracy**
Loop Impedance	230V ± 10% 50Hz	25A	20Ω	± (3% rdg + 4dgts)
	230V ± 10% 50Hz	2.3A	200Ω	± (3% rdg + 4dgts)
	230V ± 10% 50Hz	225mA	2000Ω	± (3% rdg + 4dgts)
Prospective Short Circuit Current(PSC)	230V ± 10% 50Hz	2.3A	200A	PSC accuracy is a derived from measured loop impedance specification and measured voltage specification
		25A	2000A	
		25A	20kA	
Function	**Rated Voltage (AC)**	**Trip Current**	**Trip Current Duration**	**Accuracy**
RCD X 1/2	230V ± 10% 50Hz	10/30/100/300/ 500/1000mA	2000ms	Trip Current: +10% - 0% of range at 230V; Trip Time ±(1%rdg +3dgt)
RCD X 1	230V ± 10% 50Hz	10/30/100/300/ 500/1000mA	2000ms	
RCD X 5	230V ± 10% 50Hz	10mA	50ms	Trip Current: ±10%of range at 230V; Trip Time ±(1%rdg +3dgt)
		30/100/300mA (Note: on X5 range maximum current that can be generated is 1.7A		Trip Current: +10% - 0% of range at 230V; Trip Time ±(1%rdg +3dgt)

Function	Rated Voltage (AC)	Measuring Range	Accuracy
Voltage Measurement	100-250V	100-250V	3% rdg

Ordering Information

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