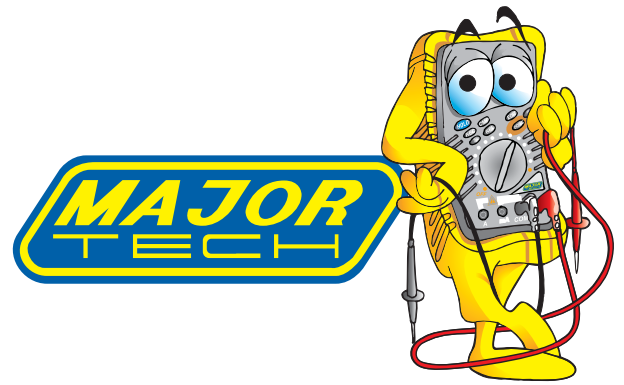


Analogue Insulation Tester



Technical Data



K3131

The new K3131 is Major Tech's premier analogue Insulation and Continuity tester, designed to meet international standards of performance and safety. This model is a high powered, high quality instrument used by professionals to obtain accurate values of insulation and continuity resistance in accordance with SABS 0142 requirements. The K3131 offers three insulation test ranges: 250V, 500V and 1000V and two continuity ranges, and is equipped with a clear, easy to read illuminated scale.

Features Include:

- Three test ranges 250V-500V-1000V
- Auto discharge after test
- Housed in IP54 Casing
- Live circuit warning
- Lock down Test Button for continuous use
- 1mA output current on insulation test
- 200mA short circuit on continuity range
- Backlight facility for dimly lit areas
- Intrinsically safe version available on request

General Specifications

Typical number of measurements

Insulation Resistance

Ranges	: 1000V/400MΩ Range	Approx. 500 times min.
	: 500V/200MΩ Range	Approx. 1300 times min.
	: 250V/100MΩ Range	Approx. 1800 times min.

Continuity Test

(Resistance Test) Ranges	: xΩ / x 10Ω Range	Approx. 1000 times min.
Applicable Standards	: IEC61010-1	Overvoltage CAT. III 300V Pollution Degree 2
	: IEC61010-2-31	Safety requirements for hand-held probe assemblies
	: IEC61557-1/2/4	Measuring equipment for low voltage distribution systems
	: IEC61326	EMC
	: IEC60529 (IP54)	Dust and drip proof

Operating Temperature and Humidity

: 0 - 40°C, relative humidity up to 85%

Storage Temperature and Humidity

: -20°C - 60°C, relative humidity up to 85%

Insulation Resistance

: More than 50MΩ at 1000V DC between electrical circuit and housing case

Withstand Voltage

: 3700V AC for one minute between electrical circuit and housing case

Overload protection

Insulation Resistance

Ranges	: 1000V Range	1200V (DC+AC p-p) for 10 seconds
	: 500V Range	600V (DC+AC p-p) for 10 seconds
	: 250V Range	300V (DC+AC p-p) for 10 seconds

Continuity Ranges

: x Ω / x 10 Ω Range 280V (DC+AC p-p) for 10 seconds

Dimensions

: 185(L) X 167(W) X 89(D) mm approx.

Weight

: 860g approx.(including battery)

Power Source

: 6X1.5V battery type SUM-3, R-6, AA or equivalent)



SERIES



IEC
61010-1
CAT III
300V

IEC
61010-1
CAT II
600V

Accessories	Test probe MODEL 7122	x1 set
	Strap belt	x1
	Test probe pouch	x1
	R6P AA batteries	x6
	Spare fuse F500mA/600V	x1
	Instruction manual.	x1

Measurement	Nominal Output Voltage	250V	500V	1000V
Insulation Resistance Range	Measuring Ranges	0-100M Ω	0-200M Ω	0-400M Ω
	Open-Circuit Voltage	250V DC + 20% max.	500V DC + 20% max.	1000V DC + 20% max.
	Short Circuit Current	1,3mA approx.		
	Nominal Current	1mA DC min. at 0.25 M Ω	1mA DC min. at 0.5 M Ω	1mA DC min. at 1 M Ω
	Accuracy	\pm 5% of indicated value at 0.1M Ω - 10M Ω	\pm 5% of indicated value at 0.2M Ω - 20M Ω	\pm 5% of indicated value at 0.4M Ω - 40M Ω
		\pm 0.7% at scale length at ranges other than above ranges		
Measurement	Ranges	X Ω	X 10 Ω	
Continuity Test	Measuring Ranges	0 -2 Ω	0 -20 Ω	
	Open-Circuit Voltage	4 - 9V DC		
	Measuring Current	200mA DC min.		
	Accuracy	\pm 3% of scale length		
	Zero Adjustment Range	0.2 Ω min		
Measurement	Ranges	Measuring ranges to keep operating error	Maximum percentage operating error	
Insulation Resistance Ranges	250V/100M Ω	0.1M Ω - 10M Ω	\pm 30%	
	500V/200M Ω	0.2M Ω - 20M Ω		
	1000V/400M Ω	0.4M Ω - 40M Ω		
Continuity Test	X Ω	0.2 Ω - 2 Ω		
	X 10 Ω	2 Ω - 20 Ω		

Ordering Information

HEAD OFFICE

Cnr Rover and Jaguar Roads, Rustivia Ext 3, Elandsfontein
P.O. Box 888, Isando 1600, South Africa
Telephone: +27 11 822 1551
Sales Fax: +27 11 822 2806
Admin Fax: +27 11 822 1411
e-mail: sales@major-tech.com
National Tel: 08 61 MAJORT / 08 61 62 5678

BRANCHES - DURBAN

6A Pastel Park, Wareing Road, Pinetown
P.O. Box 15550, Ashwood 3605
Telephone: +27 31 701 5830
Sales Fax: +27 31 701 6986

BRANCHES - CAPE TOWN

109 Kyalami Drive, Killarney Gardens
P.O. Box 60122, Tabelview 7439
Telephone: +27 21 556 3091
Sales Fax: +27 21 556 3093

BRANCHES - PORT ELIZABETH

175 Kempston Road, Sidwell
P.O. Box 22499, Port Elizabeth 6000
Telephone: +27 41 453 3818
Sales Fax: +27 86 633 9809

