

1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as \pm [% readings + (no. of digits*resolution)] at 23°C \pm 5°C, <60%HR

Continuity test on protective and equalizing conductors

Range	Resolution	Accuracy	Overload protection
0.00 \div 19.99 Ω	0.01 Ω	$\pm(2.0\%rdg + 3dgt)$	605Vrms Max

Test current: >200mA DC for R \leq 5 Ω (included calibration of test leads)

> 10mA DC per R>5 Ω (included calibration of test leads)

Open voltage: 4 < Vo < 24VDC

Insulation Resistance (DC voltage)

Test voltage	Range	Resolution	Accuracy	Overload protection
250V	0.001 \div 0.100M Ω	0.001M Ω	$\pm 10dgt$	605Vrms Max
	0.101 \div 3.999M Ω		$\pm(2.0\%rdg + 5dgt)$	
	4.00 \div 39.99M Ω	0.01M Ω	$\pm(5.0\%rdg + 5dgt)$	
	40.0 \div 399.9M Ω	0.1M Ω		
	400 \div 1000M Ω	1M Ω		
500V	0.001 \div 0.250M Ω	0.001M Ω	$\pm 15dgt$	
	0.251 \div 3.999M Ω		$\pm(2.0\%rdg + 5dgt)$	
	4.00 \div 39.99M Ω	0.01M Ω		
	40.0 \div 399.9M Ω	0.1M Ω	$\pm(5.0\%rdg + 5dgt)$	
	400 \div 2000M Ω	1M Ω		
1000V	0.001 \div 0.250M Ω	0.001M Ω	$\pm 15dgt$	
	0.251 \div 3.999M Ω		$\pm(2.0\%rdg + 5dgt)$	
	4.00 \div 39.99M Ω	0.01M Ω		
	40.0 \div 399.9M Ω	0.1M Ω	$\pm(3.0\%rdg + 5dgt)$	
	400 \div 1000M Ω	1M Ω		
	1000 \div 4000M Ω		$\pm(5.0\%rdg + 10dgt)$	

Open voltage: <1.3 x Vo

Accuracy nominal test voltage: -0%, +10%

Short circuit current: <3.0mA

Nominal test current: 1mA @ 1K Ω x V (1mA @ 500K Ω)

DC Voltage

Range	Resolution	Accuracy	Input impedance	Overload protection
0.1 \div 600.0V	0.1mV	$\pm(0.5\%rdg + 1dgt)$	3M Ω	605Vrms Max

AC Voltage

Range	Resolution	Accuracy	Input impedance	Overload protection
0.1 \div 600.0V	0.1mV	$\pm(0.8\%rdg + 4dgt)$	3M Ω	605Vrms Max

Max crest factor: $\sqrt{2}$

Resistance and Continuity test

Range	Resolution	Accuracy	Overload protection
0.00 \div 19.99 Ω	0.01 Ω	$\pm(2.0\%rdg + 3dgt)$	605Vrms max for 1min


Buzzer sound for resistance <2 Ω

2. GENERAL SPECIFICATIONS

DISPLAY:

Features:	double LCD Custom 4 digit with rdg max 9999 points sign and decimal point
Sample rate:	2times/s
Conversion:	Average value

POWER SUPPLY:

Batteries:	4 x1.5V type LR6-AA-AM3-MN 1500 alkaline batteries
Low battery indication:	"  +" symbol at display
Life batteries:	Multimeter: about 50 hours
	LoΩ: > 1000 test @ 1Ω
	MΩ 250: >1000 test @ 480kΩ
	MΩ 500: >1000 test @ 480kΩ
	MΩ 1000: >1000 test @ 480kΩ

MECHANICAL FEATURES:

Dimensions (L x W x H):	240 x 100 x 45mm
Weight (included batteries):	450g

WORKING ENVIRONMENTAL CONDITIONS:

Reference temperature:	23°C ± 5°C
Working temperature:	0° ÷ 50°C
Allowed relative humidity:	<70%HR
Storage temperature:	-10 ÷ 60°C
Storage humidity:	<70%HR

REFERENCE STANDARDS:

Continuity test with 200mA:	IEC/EN61557-4
Insulation resistance:	IEC/EN 61557-2
Insulation test on electrical switchboards:	IEC/EN60439-1
Insulation test on electrical machines:	IEC/EN60204-1

GENERAL REFERENCE STANDARDS:

Safety of measuring instruments:	IEC/EN61010-1
Product type standard:	IEC/EN61557
Insulation:	double insulation
Pollution degree:	2
Overvoltage category:	CAT III 550V (Phase – Ground) CAT III 550V (Phase – Phase)
Max height of use:	2000m

This instrument complies with the requirements of the European Low Voltage Directives 2006/95/EEC (LVD) and EMC 2004/108/EEC