

M70

Rel. 1.03 of 22/02/18

Handheld Insulation/Continuity meter up to 1000VDC

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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 ÷ 19.99Ω	0.01Ω	$\pm(2.0\%rdg + 3dgt)$	605Vrms Max

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

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

Open voltage: 4 < Vo < 24VDC

Insulation Resistance (DC voltage)

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

Open voltage: <1.3 x Vo

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

Short circuit current: <3.0mA

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

DC Voltage

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

AC Voltage

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

 Max crest factor: $\sqrt{2}$

Resistance and Continuity test

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

Buzzer sound for resistance <2Ω




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 Lo Ω : > 1000 test @ 1 Ω M Ω 250: >1000 test @ 480k Ω M Ω 500: >1000 test @ 480k Ω M Ω 1000: >1000 test @ 480k Ω

MECHANICAL FEATURES:

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

WORKING ENVIRONMENTAL CONDITIONS:

Reference temperature:	23°C \pm 5°C
Working temperature:	0°C \div 50°C
Allowed relative humidity:	<70%RH
Storage temperature:	-10°C \div 60°C
Storage humidity:	<70%RH

REFERENCE STANDARDS:

Continuity test with 200mA:	IEC/EN61557-4
Insulation resistance:	IEC/EN61557-2

GENERAL REFERENCE STANDARDS:

Safety of measuring instruments:	IEC/EN61010-1
EMC:	IEC/EN61326-1
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 product conforms to the prescriptions of the European directive on low voltage 2014/35/EU and to EMC directive 2014/30/EU

This product conforms to the prescriptions of the European directive 2011/65/EU (RoHS) and the European directive 2012/19/EU (WEEE)