Handheld Insulation Resistance Tester





Description

Insulation Resistance Tester Full function DMM includes AC and DC voltage measurement, plus a wide range of resistance scales designed specifically for insulation resistance measurement. It is ideal for safety and preventative maintenance work on powered tools, motors, transformers and similar devices. Large backlit 6000 count display provides at-a-glance readings via both 3-3/4 digit readout and 45 segment analog bargraph.

Features

- True RMS accuracy
- · Auto range operation
- Step voltage: 10% steps at 50% ~ 120% of range
- DAR: 60S/15s and 60S/30s
- 99 data storage points
- · Data hold function
- · Timer and red warning light
- · High voltage indication
- Auto discharge and auto power off
- · Continuity buzzer
- · Backlight allows for operation in the dark environment
- 12 month limited warranty

Specification

Display : LCD display, with maximum reading being 9999

Over Ranging Indication : >20 G Ω (within the scope of insulation resistance)

Unit Display : Displaying the function and electric quantity unit symbol

Working Condition : 0°C to +40°C / relative humidity 85% or less

Storage Condition : -20°C to +60°C / relative humidity 90% or less

Environmental Temperature : 23 ±5°C
Environmental Humidity : 45-75%RH

Temperature Coefficient : 0.1* (accuracy) / °C

Limit of Error : ± (a% reading + word count), with calibrating interval being one year

Current Consumption : About 500mA (in case of maximum output 1000V) (about 10mA at ordinary times)

Battery : AA 1.5V ×6 IP Level : IP40

Overall Dimensions : 225mm(L)×103mm(W)×59mm(D)
Weight : 0.7kg (inclusive of battery)

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Technical Indicator

Output Voltage	50V stepping 10%		% 0% to +10%	250V	50V output range: 25V~60V
	100V stepping 10%	50%~120%			100V output range:50V~120V
	250V stepping 10%				250V output range:125V~300V
	500V stepping 10%				500V output range:250V~600V
	1000V stepping 10%				1000W output range:500V~1200V
Rated Current	1mA		0% to +10%	250V	50V: load resistance 50kΩ
	1mA				100V: load resistance 100kΩ
	1mA				250V: load resistance 250kΩ
	1mA				500V: load resistance 500kΩ
	1mA				1000V: load resistance 1MΩ
Short-Circuit Current	Less than 2mA			High-voltage output terminal is short circuited with EARTH terminal.	
Measurement of Insulation Resistance	(50V) 0.01M~19.99M 20M~50M	0.01MΩ 0.1MΩ	0.01MΩ~50MΩ: 3%+5	25V	 Short-circuit current less than 2mA; Range of measurement is described below: 50V: 0.01MΩ~50MΩ, there will be buzzing alarm ourgut in case of less than 1MΩ: 100V: 0.01MΩ~100MΩ, there will be buzzing alarm output in case of less than 1MΩ; 250V: 0.01M~200MΩ, there will be buzzing alarm output in case of less than 4MΩ; 500V: 0.01MΩ~500MΩ, there will be buzzing alarm output in case of less than 4MΩ; 1000V: 0.0MΩ~10MΩ, there will be buzzing alarm output in case of less than 4MΩ; 1000V: 0.0MΩ~10MΩ, there will be buzzing alarm output in case of less than 4MΩ.
	(100V) 0.01M~19.99M 20M~100M	1MΩ 0.01GΩ	0.01MΩ~100MΩ: 3%+5		
	(250V) 0.01M~19.99M 20M~200M	0.01MΩ 0.1MΩ	0.01MΩ~200MΩ: 1.5%+5		
	(500V) 0.01M~19.99M 20M~199.9M 200M~500M	0.01MΩ 0.1MΩ 1MΩ	0.01MΩ~500MΩ: 1.5%+5		
	(1000V) 0.01M~19.99M 20M~199.9M 200M~2000M 2GΩ~20GΩ	0.01MΩ 1MΩ 0.1GΩ	0.01MΩ~200MΩ: 1.5%+5		
			200MΩ~2000MΩ: 1.5%+5		
			2GΩ~10GΩ: 10%+3		
			10GΩ~20GΩ: 20%+10		
Measurement of Low Resistance	20kΩ	0.01Ω	±1.5%+3	2V AC/DC	Open-circuit voltage is about 5V; Short-circuit current is higher than 200mA
Voltage	600V AC	0.1V	±(2%+3)	600V AC	Input Impedance: 10MΩ Minimum measured voltage: 0.1V Frequency: DC/50Hz~400Hz
Voltage Measurement	600V DC	0.1V	±(2%+3)	600V DC	



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Part Number Table

Description	Part Number
Handheld Insulation Resistance Tester	72-3105

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Page <3> 03/06/22 V1.0