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AMPROBE®

Data Sheet

AMB-50

5000V Basic Insulation Resistance Tester

Amprobe AMB-50 High-Voltage Insulation Tester has the necessary features for professional insulation diagnostics. It features calculation of PI, and DAR parameters. The PASS/FAIL comparison function helps to improve testing productivity. Readings are clearly displayed on a large backlit LCD display. Windows compatible PC Software and USB communications port serve for connecting the instrument to the PC and management of the recorded test data.

- **Test insulation of wires, cables, transformers, motors, surge arrestors and generators**
- **Selectable testing voltages - one testing instrument for low and high voltage systems from 500/1000/2500 and 5000V**
- **Insulation resistance measurement up to 1TΩ**
  - **User selectable Programmable Timer (10s to 30 min)**
  - **Automatic discharge of test object after completion of measurement**
- **Diagnostic tools**
  - **Polarization index (PI)**
  - **Dielectric Absorption Ratio (DAR)**
  - **Comparison feature to set PASS / FAIL thresholds for quick measurement and verification**
- **Dual power source – receptacle or batteries**
- **Built in internal memory storing 18 measurements**
- **Comes as a complete kit: Power Adapter, Software, USB Interface Cable, Hard Carrying case, Batteries, complete set of test leads, and instruction manual**
- **CAT III 600V**

No hassle warranty

No waiting.

No shipping charges.

WARRANTY NO HASSLE PROGRAM

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: $500 MSLP limit)

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General Specifications

Display (LCD)	1999 counts. Analog bar graph.
Operating Temperature	-10°C~40°C (14°F ~104°F)
Storage Temperature	-20°C ~60°C (-4 °F~152°F)
Relative Humidity	< 85% @ -10°C ~40°C below; < 90% @ 0°C ~40°C :
Battery Type	8pcs X 1.5V (LR14) batteries or power adaptor (input voltage 230V, 50/60Hz, 75mA, input DC14V, 1.0A). Power adaptor is not included
Storage Environment	-20°C to 60°C, 0 to 70% R.H. with battery removed from meter.

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Technical Specification

Feature			
Insulation Resistance @	500V 1000V 2500V 5000V		
Range	0.5 MΩ – 20GΩ 2 MΩ – 40GΩ 5MΩ – 100GΩ 100 MΩ – 1000GΩ		
Open Circuit Voltage	DC 500V 0%~+20% DC 1000V 0%~+20% DC 2500V 0%~+20% DC 5000V 0%~+20%		
Test Current	1mA~1.2mA @ 500kΩ 1mA~1.2mA @ 1MΩ 1mA~1.2mA @ 2.5MΩ 1mA~1.2mA @ 5MΩ		
Accuracy			
500V	0.50M ~99.9M : (3%+5) 100M ~9.99G : (5%+5) 10.0G ~20.0G : (10%+5)		
1000V	2.0M ~99.9M : (3%+5) 100M ~9.99G : (5%+5) 10.0G ~40.0G : (10%+5)		
2500V	5.0M ~99.9M : (3%+5) 100M ~9.99G : (5%+5) 10.0G ~100G : (10%+5)		
5000V	10.0M ~29.9M : (For reference only) 30.0M ~99.9M : (3%+5) 100M ~9.99G : (5%+5) 10.0G ~99.9G : (10%+5) Above 100G : [(20%+5) Humidity:Below 50%]		
Voltage	**Range**	**Resolution**	**Accuracy**
DC	±30 ~ ±600V	1V	(±2%+5) Among them 30~100V(50/60Hz)±(2%+8)
AC	30V~600V (50/60Hz)	1V	(±2%+5) Among them 30~100V(50/60Hz)±(2%+8)
Dimensions	220(L) X 155 (W) X94(H)mm (7.95 X 6.1 X 3.7 inch)		
Weight	Approx. 2kg (4.4 Lbs) (including battery)		
Included Accessories	AMB-50 Insulation Resistance Tester, Test Leads (1 set), Test Probe (1 set), Plug type test Lead with Alligator clip (Green), Plug type test Lead with Alligator clip (Black), Two Plugs type test lead with Alligator clip (Red), 8 Batteries (1.5V, LR14), Users Manual, Tool Box, Software, USB Cable, Power adaptor.		

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