

AMB-45 Insulation Resistance Tester

Test insulation of wires, cables, transformers and electrical motors

Test insulation of wires, cables, transformers and electrical motors quickly and easily with this rugged tester. The Amprobe AMB-45 Insulation Resistance Tester is a digital meter that measures insulation resistance and voltage to help reduce shock hazards and downtime on electrical systems that include wires, cables, transformers, and electrical motors – often used in preventive maintenance. The tester has automatic range selection for increased safety, and is easy to use. Set up the timer function for easy hands-free operation when testing for dielectric absorption ratio. The AMB-45 is designed for use by electricians and electrical contractors.

The unit measures 0 to 600 V alternating current (AC) or direct current (DC) and insulation resistance from 0 to 4,000

megaohms using 250, 500, or 1,000 V DC test voltage. A low-resistance range (0 to 4,000 ohms) is used to measure resistance in motor windings. The internal memory holds up to 4,000 test results for later download to a PC. The tester is safety rated to European Standard (EN) 61010-1, CAT III, 600 V and CAT II, 1,000 V. The unit has a programmable timer to perform dielectric absorption ratio tests. The LCD screen is 70 x 46mm and includes a 60 segment analog bar indicator. The tester is powered by eight AA batteries (included).

AMB-45 Features


- **Tests insulation** of wires, cables, transformers and electrical motors
- **Comes as a complete kit** including test leads and PC software
- **Selectable test voltages** 250 V, 500 V and 1000 V
- **Programmable timer** to perform the dielectric absorption ratio test
- **Sensitive Ohmmeter** for checking resistance of motor windings
- **Built in voltmeter**
- **Fast and easy to use**, rugged durable design
- **Internal memory** to store measurements for future reference



AMB-45
Insulation Resistance
Tester



Detailed Specifications

Features	AMB-45
Safety Rating	CAT III 600 V, CAT II 1000 V
AC Voltage	Range: 600 V Resolution: 0.1 V Accuracy: 1.5%rdg+5dgt
DC Voltage	Range: 600 V Resolution: 0.1 V Accuracy: 1%rdg+3dgt
Ohms (Autoranging)	Range: 400Ω, 4000Ω Resolution: 0.1Ω, 1Ω Accuracy: 1%rdg+5dgt
Continuity Beeper	Range: ∞ Resolution: 40Ω Protection: 250Vms
Autoranging	Range: 4/40/400/400M_(250V), 4/40/400/4000M_(500V), 4/40/400/400M_(1000V) Resolution: 1KΩ Accuracy: 3%rdg+5dgt < 2GW, 5%rdg+5dgt < 4GW
Recording Length	4000 records
Safety	N-61010-1, 600 V CAT III, 1000 V CAT II, VDE 0413
General Specifications	
Display	70 x 46mm LCD with 60 segment analog bar Indicator
Over Range Indication	"OL" will be shown on the LCD Panel when an out of range measurement is made
Low Battery Indication	The symbol is displayed indicating a low battery condition
Sampling Rate	2.5 times/sec Digital Display; 10 times/sec Bar Graph
Power Source	1.5V AA size Battery X 8
Operating Temperature and Humidity	32°F to 104°F (0°C to 40°C), below 80% RH
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Dimension	9 x 4.6 x 2.4 inch, (230 x 116 x 62) mm
Weight	Approx. 750g (with battery)
Accessories	Test Lead, Large Jaw Alligator Clips, Batteries, Instruction Manual, Carrying Case, Software, RS-232 Cable.
Certification	CE 

Accessories included: User manual, Test leads, Carrying case, Batteries AAA (2), Banana plug K-type thermocouple

All Amprobe tools, including the Amprobe AMB-45, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.

