

**AMPROBE®**

# **AMB-5KVD MEGATEST 5000**

## **5000V DIGITAL MEGOHMMETER**



### **AMB-5KVD**

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### **MegaTest 5000**

#### **FEATURES**

- Measures insulation resistance
- Performs the Dielectric Absorption Ratio Test
- Selectable testing voltages up to 5000V
- Programmable setups of test voltages and timers
- Built in automatic voltmeter
- Internal memory to store measurements
- Data download to a PC
- Battery operated
- Rugged durable design

#### **BENEFITS**

- Ideal for checking motor windings and cable insulation
- One testing instrument for low and high voltage systems
- Fast and easy to use
- Warns against hazardous energized systems
- Measurements can be stored for future reference
- Software provided for printing reports
- Designed to use in remote locations
- All accessories and software are included with product

## **put me to the test.**

The largest selection of test measurement equipment for electrical contractors.



**AMPROBE®**  
*Built to Outlast.*

**Miami, Florida**  
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**www.amprobe.com**

# Model AMB-5KVD



## TECHNICAL SPECIFICATIONS

### TECHNICAL FEATURES

Accuracy is shown in terms of [% of the reading + number of digits]. It refers to the following ambient conditions: Temperature 73°F +/- 2° (23°C +/- 1°) with relative humidity < 75%.

### Measuring the Insulation.

Range	Accuracy			
	100 .. <500 V	500 .. <1000 V	1000 .. 2500 V	2500 .. 5000 V
100 KΩ - 500 KΩ	±(20% + 10dgt)	±(20% + 10dgt)	±(20% + 10dgt)	±(20% + 10dgt)
500 KΩ - 50 GΩ	±(5% + 1dgt)	±(5% + 1dgt)	±(5% + 1dgt)	±(5% + 1dgt)
50 GΩ - 100 GΩ	±(20% + 10dgt)	±(5% + 1dgt)	±(5% + 1dgt)	±(5% + 1dgt)
100 GΩ - 250 GΩ	---	±(20% + 10dgt)	±(5% + 1dgt)	±(5% + 1dgt)
250 GΩ - 500 GΩ	---	---	±(20% + 10dgt)	±(5% + 1dgt)

Minimum resistance resolution: 1%  
Voltage indication resolution: 1.22 V

### Delivered Testing Current

Voltage setting	Max current
100 - 500 V	3.00 mA
1000 - 5000 V	1.40 mA

The output current is automatically limited.

### Voltage Measurement

Voltage range	Resolution	Accuracy
0 - 500 V	1,22V	±(10%+10 dgt)
500 - 5000 V	1,22V	±(10%+ 5 dgt)

The limits shown here are valid both for DC of any polarity and for AC.  
Discharge time at 5000V: <1.5s x mF.

## Safety

Instrument according to standard: EN 61010-1  
Insulation: Class 2, Double insulation  
Pollution level: 2  
Over-voltage category: CAT III 600V  
Serial port insulation: 25 mm. (max. 5000 V)

## General Features

### Electric features

Measuring method: Voltamperometric system  
Parameter memory: 20 different parameters  
Stored measurements: 200 measurements with their parameters and results  
RS232: DIN 9 pin

## Safety

The measurement is stopped when there is voltage at the test leads that could damage the instrument.  
Discharge of the remaining voltage at the end of the measurement or when the instrument has been turned off.

## Mechanical features

Size: 11.5(L) x 13(W) x 5.75(H) inches  
290(L) x 340(W) x 145(H) mm

Weight: 8.8 Lbs. (4 Kg)

## Power supply

Battery Type: 4 each, 1.5 volt, "D" size alkaline  
"Low Battery" indication: "Battery" symbol appears on the display  
Endurance: 250 meas. V = 5000V Rx = 5 MW t = 1 min  
450 meas. V = 500 V Rx = 500kW t = 1 min  
Automatic Turn Off: Turns off after 10 minutes without use.

## Display

Features: LCD 1 unit 3 dgt., 2 units 4 dgt., bargraph 32 segments + other symbols.  
Updating speed: Max. 2 sec. depends on the value of the resistance being measured and on the stray capacitance present in parallel. During the first 15 sec. the resistance value is shown as "--".

## Ambient conditions

Ambient conditions of use  
Temperature of reference: 73° F +/- 1° (23°C +/- 1°)  
Operating Temperature: 41 - 104° F (5 - 40°C)  
Permitted relative humidity: < 80%  
Storage temperature: 14 - 140° F (-10 - 60 °C)  
Storage humidity: < 70%  
Noise level: < 40 dB

## EMC

This instrument has been designed to comply with current EMC standards and electromagnetic compatibility has been tested under:

EN 50081-1, EN 50082-1

## Replacement parts

Part Description	Part #
Carrying Case	MT5-CC
Special Download Cable*	C232NG1
Test Leads Set (complete set of 3)	MT5-LEADS

\*Special download cable wiring



**ADVANCED TEST PRODUCTS**

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