



MEGATEST 5000

5000 V MEGOHMMETER

Model#: AMB-5 KVD

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 K - 500 K	±(20% + 10dgt)	±(20% + 10dgt)	±(20% + 10dgt)	±(20% + 10dgt)
500 K - 50 G	±(5% + 1dgt)	±(5% + 1dgt)	±(5% + 1dgt)	±(5% + 1dgt)
50 G - 100 G	±(20% + 10dgt)	±(5% + 1dgt)	±(5% + 1dgt)	±(5% + 1dgt)
100 G - 250 G	- - -	±(20% + 10dgt)	±(5% + 1dgt)	±(5% + 1dgt)
250 G - 500 G	- - -	- - -	±(20% + 10dgt)	±(5% + 1dgt)

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

Current which can be delivered

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 μF.

Safety

Instrument according to standard: EN 61010-1
 Insulation: Class 2, Double insulation
 Pollution level: 2
 Indoors use; max altitude: 6,562 feet (2000 m)
 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:	290(L) x 340(W) x 145(H) mm 11.5(L) x 13(W) x 5.75(H) inches
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Weight	8.8 Lbs. (4 Kg)
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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 = 5000 V Rx = 5 M Ω t = 1 min 450 meas. V = 500 V Rx = 500k Ω 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

This instrument complies with the requirements of the European Directive on low voltage 72/23/EEC and with the EMC 89/336/EEC directive, modified under 93/68/EEC.

6.4 Standard equipment

The package contains:

- The instrument received
- Three test leads provided with a safety boot and an alligator clip
- Instruction manual
- Serial cable for computer connection
- CD-ROM with "SUPERLINK" software for downloading/reading measurements

6.5 Replacement parts

<u>Part Description</u>	<u>Part #</u>
Carrying Case	MT5-CC
Download Cable	GP-RS232
Test Leads Set (complete set of 3)	MT5-LEADS