

MD1000



1.000 V - 20.000 M INSULATION TESTER

- ✓ 3 TEST VOLTAGES:
250V - 500V - 1.000V
- ✓ INSULATION RESISTANCE
UP TO 20.000M
- ✓ AUTO-RANGE
- ✓ GUARD TERMINAL
- ✓ HOLD MEMORY
- ✓ PROGRAMMABLE TIMER
- ✓ PROGRAMMABLE PASS/FAIL
TEST
- ✓ CONTINUITY / LOW
RESISTANCE MEASUREMENT
- ✓ 600 V_~ VOLTMETER
- ✓ HIGH VOLTAGE WARNING LED
- ✓ BATTERY CHECK

The Megabras MD-1000 is a smart, microprocessor-controlled, 1kV insulation tester for up to 20.000M resistance measuring with 250, 500 and 1000V test voltage. It is a portable, hand-held, battery-powered equipment. Due to its measurement principle (actual voltage and current readings) it is a "true megohmmeter" and so the accuracy of resistance measurement is not affected by any test voltage error. Nevertheless, the High-Voltage generator is electronically stabilized for a better than 3% accuracy in open-circuit condition and for any normal operation battery voltage.

Operation is very simple and user-friendly: just connect the leads, switch-on the equipment, select the test voltage and press the start button. Then the equipment automatically selects the most suitable scale and shows the measured value in the digital display.

In order to guarantee the operator safety, the cabinet is made of a high-breakdown strength plastic and there are no accessible metallic parts. Output terminals are placed in the furthest and most protected area of the equipment. A light indicator shows high-voltage presence and is switched-off when the capacities (both internal and external) are discharged up to reaching a safe value.

Furthermore, it offers useful additional features: 200mA continuity range, low resistance measurement, AC voltage measurement to 600V, selectable timer (15, 30, 60, 180 seconds), hold memory, and selectable resistance limits for pass-fail testing, with acoustic indication.

Surface leakage paths may affect the measurement of high value insulation resistance. The use of the *GUARD* terminal permits to remove the effect of this current, substantially improving the test result.

The cabinet is strong and lightweight, easy to carry, impact-resistant and suitable to be used under severe weather conditions. Thus the megohmmeter makes very reliable and accurate measurements both in laboratory and out in the field.

MD 1000 - TECHNICAL SPECIFICATIONS

NOMINAL TEST VOLTAGE

250, 500 and 1.000 Vdc

TEST VOLTAGE ACCURACY

+15% (open circuit)

RESISTANCE MEASUREMENT RANGE

10 K to 20 G

SHORT CIRCUIT CURRENT

1,5 ± 0,3 mA

MEGOHMMETER BASIC ACCURACY

± 5% of reading ± 2 digits
(1 M to 20 G at any test voltage)

LOW RESISTANCE AND CONTINUITY TESTER

Measurement range

0,05 to 200

Accuracy

± 5% of reading ± 2 digits

Test current

Up to 200 mA

Continuity buzzer

Activates at 5 ± 0,5

BUILT-IN TIMER

15 - 30 - 60 - 180 seconds

PASS/FAIL TEST

1 - 5 - 10 - 50 - 100 M

VOLTAGE TESTER

Measurement range

0 - 600 V~

Accuracy

± 5% of reading ± 2 digits

ADDITIONAL FEATURES

- Guard terminal
- Hold memory
- Battery check

SAFETY CLASS

Meets the requirements of IEC 61010-1/1990, IEC 61010
1/1992 amendment 2

E.M.C

In accordance with IEC 61326-1

ELECTROSTATIC IMMUNITY

In accordance with IEC 1000-4-2

ELECTRO MAGNETIC IRRADIATION IMMUNITY

In accordance with IEC 61000-4-3

POWER SUPPLY

6 x 1,5 V "AA" cells

OPERATING TEMPERATURE RANGE

-5°C to 50°C

STORAGE TEMPERATURE RANGE

-25°C to 65°C

HUMIDITY RANGE

95% RH (non condensing)

ALTITUDE

Up to 2000m

WEIGHT

Approx. 0,8 kg, including battery

DIMENSIONS

100 X 193 X 48 mm

INCLUDED ACCESSORIES

- ☑ Measuring test leads, 1,80 m. (2)
- ☑ GUARD test lead, 1,80 m.
- ☑ Operating instructions



Technical modifications reserved.



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