

MMG500



MMG500

- ✓ insulation measurement
- ✓ RS232 or IEEE488-2 multi-lingual software
- ✓ resistance measurement per km for cable testing
- ✓ easy to use interface
- ✓ dedicated for laboratory and production lines
- ✓ complies with EN61010-1, EN60065, EN60335-1, EN60598-1, EN60601-1, EN60950, CEI990, and many other standards

“ For cable manufacturers, an interesting feature is the MΩ/km measurement display which allows you to get the resistance per kilometer.”

MMG500

Insulation

Test voltages	50 V	100 V	250 V	500 V	1000 V (option)
Range	50 kΩ...20 GΩ	100 kΩ...40 GΩ	250 kΩ...100 GΩ	500 kΩ...200 GΩ	1 MΩ...200 GΩ
Accuracy · resolution	±(1.5% + 1U) · 2000 points				
Measurement current	2 mA max.				

Other specifications

Dimensions (W x H x D)	343 x 131 x 332
Weight	9 kg

Accessories

No standard accessories. See accessory page and make your choice. Each equipment is delivered with data measurement along with standard traceability, and CE certificate.

Options

See option page to know available options.

Calibration

See calibration page to know available kits.

ISO 9001 CERTIFIED MANUFACTURER

SEFELEC

Parc d'activités du Mandinet
19 rue des Campanules
F-77185 Lognes - France
Tel. +(33)1 64 11 83 42 / Fax + (33)1 60 17 35 01
sefelec.marketing@sefelec.com

Distributor:



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- Measurement voltage: 50-100-250-500 VDC (1000 VDC option)
- Insulation resistance from 50 kΩ to 200 GΩ (2 TΩ option)
- Display MΩ/km
- 10 parameter sets storing
- RS232C, PLC or IEEE488-2 interfaces

APPLICATIONS

This instrument is made to simplify megohmmeter tests. Its new architecture includes a microprocessor for ease of use and responds to specific needs by offering a large range of options like RS232C or PLC. It can be used for various applications such as laboratory, production or control.

CHARACTERISTICS

Measurement voltage

- 50kΩ to 200GΩ (2TΩ in option)

Voltage	Measurement range
50V	50kΩ to 20GΩ
100V	100kΩ to 40GΩ
250V	250kΩ to 100GΩ
500V	500kΩ to 200GΩ
1000V (option 26)	1MΩ to 200GΩ

Précision

- +/- (1,5%+1U)
- Résolution: 2000 digits

Threshold

- A High limit (making specimen under test detection possible) and a Low limit adjustable from 50 kΩ to 200GΩ

Measurement voltage

- 50-100-250-500VDC
- 100-250-500-1000VDC (option 26)
- Accuracy: +/- (1%+2V)
- Max. current: 2mA

Measurement time

- Adjustable from 0 to 999 sec. or permanent

Storing

- 10 test parameter (voltage, threshold, time, ...) sets can be stored.

Capacity mode

- in the configuration menu to obtain a better stability of the measurement on capacitive samples (cables, capacitors,...).

PROTECTIONS

Instrument

- Byslowblowfuse

Operator

- No HV or current on the outputs as long as the safety interlock is open

GENERAL CHARACTERISTICS

Presentation

- Table top unit
- Metal case

Dimensions

- Height. :131mm
- Width. :343mm
- Depth. :332mm

Weight

- 9kg

Power

- 230V +/-10% or 115V +/-10% single phase-47-63Hz
- Consumption: 40 to 70VA depending on test

Operating temperature

- 0° C to +45° C

Storage temperature

- -10° C to +60° C

Over-voltage category

- CAT II

Pollution degree

- 2

Safety class

- Class I (earth connection)

OPTIONS

- 01: RS232C (Talker - Listener) interface
- 02: PLC interface
START contact
PASS and FAIL contacts
END OF TEST contact
FAULT contact
- 03: 0-10 volts input and output
 - 0-10 volts input to control the High Voltage
 - 0-10 volts outputs for the voltage and the current
- 05: Rear panel outputs not removable

- 06: IEEE488-2 (Talker - Listener) interface
- 07: GOOD-BAD contact
- 08: Option 02+03
- 20: Insulation resistance measurement up to 2TΩ
- 22: Resistance display in MΩ x km
- 24: Special measurement voltage between 45 and 514 volts
- 26: Insulation resistance measurement under 100-250-500-1000VDC
- 93: Remote control box (option 02 or 07 are requested)

SOFTWARES

- MG95: Software for MG series unit used together with a relay matrix
- MG96: SMGPRO software for Home appliance test
- MG98: Labview - National Instruments drivers
- MG99: QBASIC examples

OPTIONAL ACCESSORIES

- TE56
 - Test probe
- C0160-02
 - Red - Green lamp to indicate the HV presence
- C0200
 - Test box equipped with 1 mains female socket schüco
- A010
 - 2 hand remote control
- A011
 - remote control foot switch
- A014
 - 25 point multiple accessories interconnection box
- KRMG3U
 - 19" rack mount kit
- REM
 - high value resistor (to select from 1 MΩ up to 100TΩ)

CALIBRATION KIT

[STANDARD AND OPERATING MANUAL]

- MG91
 - Calibration box for insulation