

MI2077

Portable Teraohm Meter



TeraOhm 5 kV is a digital

multipurpose tester intended for testing of insulation on:

- Rotating machines
- Transformers
- Cables
- High Voltage generators
- Electrical circuits
- Surge arresters
- Insulation systems, etc.

- ◆ Ultra high **Insulation Resistance** measurement:
 - Pre-set DC test voltages **250 V ÷ 5000 V** in steps of 50 V.
 - Measuring range up to **5 TΩ**
 - Timer mode from 1 s up to 30 min.
 - Capacitance measurement up to 50μF.
- ◆ Powerful feature of **Diagnostic tests**:
 - Discharge Current, Voltage and Capacitance measured on the equipment under test.
 - Polarization Index (**PI**) calculated.
 - Dielectric Discharge Ratio (**DD**) calculated.
- ◆ **Step voltage** measurement of Insulation Resistance.
 - Pre-set DC test voltage up to 5000 V automatically divided in 5 steps.
 - Pre-setting of the test time for the voltage step.
- ◆ **Withstanding voltage test** up to 5500 V.

- Leakage current measurement.
- **Ramp mode** rising voltage within the selected values.
- Pre-set treshold test current from 1μA to 1.4 mA.
- ◆ **External voltage** 0 ÷ 600 V AC/DC and frequency.

Automatic discharge of capacitive loads.

- Guard terminal to eliminate surface leakage current.
- Digital and bar graph display shows results with date and time.
- Built-in battery charger.
- User-friendly PC software with RS 232 isolated communication port.

Key Features

- Large custom LCD dot matrix display with bar graph and with back light.
- Simultaneous display of measurement parameters.
- Built-in timer and real time clock.
- Guard terminal to eliminate effects of surface leakage current.
- Three safety banana sockets galvanic separated. RS 232 port for communication to PC.
- Built-in battery charger for NiCd or NiMH enable measurement during the charging.
- Simple and fast setting of measurement

Technical Specifications

- Digital resistance range: 0.01 MΩ ÷ 5 TΩ ± (5 % of reading + 3 dig.)
- Test voltage ranges (DC): 250 V ÷ 5000 V in steps by 50 V ± (3 % of reading + 3 V)
- Bar Graph Trend: 0 ÷ 5 TΩ
- Withstanding test voltage: 0 ÷ 5500 V ± (3 % of reading + 40 V)
- Leakage current range: 0 ÷ 1.4 mA ± (3 % of reading + 3 dig.)

- Voltage AC/DC range: 0 ÷ 600 V ± (3 % of reading + 3 V)
- Input resistance: 3 MΩ
- Capacitance range: 0 ÷ 50 μF ± (5 % of reading + 2 dig.)
- Polarization index (PI) range: 0 ÷ 99.9 ± (5 % of reading + 2 dig.)
- Dielectric discharge test (DD)range: 0 ÷ 99.9 ± (5 % of reading + 2 dig.)

General Characteristics

Power supply: 7.2 V d.c. (6 x 1.2 V) NiCd or NiMH or 9 V d.c. (6 x 1.5 V) alkaline

Display LCD dot matrix with backlight

Protection classification double insulation

Overvoltage category CAT III 600 V

Pollution degree: 2

Degree of protection IP 54

Working temperature range: -10 ÷ +50 °C

Storage temperature range: -20 ÷ +70 °C

Communication Serial port RS 232, optically isolated

Memory 1000 measurement result

Dimensions: (w x h x d) 265 x 110 x 185 mm

Mass (with batteries): 2.3 kg

For further information please contact:

Samgor Technology

Add: 9F, Founder Tower No.1122 Xin Jin Qiao Rd.
Pudong, Shanghai, 201206, China

Tel: 86-21-58999552 58999556

Fax: 86-21-68482953 50323350

E-mail: info@samgor.com

Http:// www.samgor.com

