

## 5 kV Automated Insulation Resistance Tester Model TeraOhm

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- *Ultra high Insulation Resistance measurement up to 5T $\Omega$ .*
- *Polarization Index (PI) measurement with programmable timer.*
- *Voltage, Frequency and Capacitance measurement.*
- *Storage of 1000 test results in memory, that can be downloaded to a PC*
- *Large, backlite LCD display.*



### Description

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The TeraOhm is an ultra high range insulation resistance testing instrument. With an output voltage of up to 5500 volts DC the TeraOhm will measure up to 5 T $\Omega$  (5,000,000 Meg $\Omega$ ).

The test voltage can be selected in increments of 50 volts. The duration of the test can be set by the operator. At the end to the test period, the sample is automatically discharged and the insulation resistance is indicated on the display.

Polarization Index tests can also be automatically conducted. At the end of the ten minute period, PI

is automatically calculated and up to 1000 results can be stored in the instrument. These results can easily be recalled or can be transferred to a PC using the optional windows software TeraLink+.

The instrument can also be used to measure capacitance up to 50  $\mu$ F, voltage up to 600 VAC or VDC, and frequency.

The standard instrument is supplied with rechargeable batteries, a calibration certificate and a soft sided carrying case. Batteries recharge using a "built-in" charger.

# 5 kV Automated Insulation Resistance Tester

## Model TeraOhm

### Features

- Ultra high Insulation Resistance measurement up to 5TΩ.
- Polarization Index (PI) measurement with programmable timer.
- Dielectric Discharge Ratio (DD)
- Voltage, Frequency and Capacitance measurement.
- Withstand voltage to 5500V.
- Automatic discharge to safe voltage level.
- IR Testing up to 5,000V in 50V steps with actual test voltage display.
- 1000 memory locations for test results, and isolated RS232 output.
- Real time clock and programmable timer.
- Large, backlit LCD display.
- Double insulated.

### Specifications

<b>Insulation test</b>	0.01MΩ to 5TΩ, ±5% accuracy
<b>DC Test Voltage</b>	250 to 5000V in 50V steps. Actual test voltage display, ±3% accuracy
<b>Test Current</b>	> 1 mA, 5W max.
<b>Voltage Measurement</b>	0 to 600V AC or DC, ±3% accuracy
<b>Frequency Measurement</b>	45-65 Hz, ±0.2Hz
<b>Withstanding Voltage</b>	0 to 5500V, 0 to 1.4mA, ±3% accuracy
<b>Capacitance</b>	0 to 50 uF, ±5% accuracy
<b>Polarization Index (PI)</b>	0 to 99.9, ±5% accuracy
<b>Dielectric Discharge (DD)</b>	0 to 99.9, ±5% accuracy
<b>Protection</b>	Double insulation, CAT III 600V, Pollution degree 2
<b>Power</b>	6 "C" size rechargeable batteries, 115 or 230 VAC
<b>Dimensions</b>	265 x 110 x 185mm, 2.3kg
<b>Optional Accessories</b>	Windows Software with RS232, 5KV Leads, Case

#### Standard accessories as shown include:

- Test Leads-
  - Red, black and green, 6 foot.
  - Large Alligator clips
  - Test probes
  - Power cord
- Rechargeable batteries
- Soft sided case
- Instruction manual



#### Optional accessories as shown include:

- Windows Software Tera Link +
- RS232 interconnecting cable
- 5 kV test leads
- 5 kV insulated alligator clips.
- Hard carrying and transport case. (Not shown.)



specifications subject to change without notice

Represented by:

## TeraOhm Kit Contents

- Test Leads-
  - \*Red, black and green, 6 foot
  - \*Large Alligator clips
  - \*Test probes
  - \*Power cord
- Soft sided case
- Instruction manual
- Rechargeable batteries



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