



# MT577

## Diagnostic Insulation Tester

The MT577 10kV CAT III 300V Diagnostic Insulation Tester with increments of 50V on each range will automatically discharge the circuit after the test has been completed. Using the range button switches, 6 preset ranges of 250V, 500V, 1000V, 2500V, 5kV and 10kV can be selected, with an insulation resistance up to 35TΩ. The microprocessor controlled MT577 has the capability of being a diagnostic tool and is intended for testing insulation on Rotating Machines, Transformers, Cables, High Voltage Generators, Electric Circuits and Surge Arresters. The short circuit current output is up to 6mA.

It has the function of measuring Absorption Ratio and Polarization Index of AC voltage and DC voltage and 500 test measurement results can be saved in the memory of the meter and recalled onto the LCD display. The large backlit LCD display indicates the readings of insulation, measuring time, output voltage and output current. The MT577 can measure up to 750V AC and up to 1000V DC and Capacitance up to 50μF, and is housed in a robust case ideal for extended field use, powered by 12.6V Lithium batteries. Stored data can be transferred to a PC using an optical USB and software supplied

### Features

- Insulation Test Voltages from 250V to 10kV
- Microprocessor controlled with 4-bit large backlit display
- Test insulation resistance up to 35TΩ
- Short circuit current up to 6mA
- DAR - Dielectric Absorption Ratio indication
- PI - Polarization Index indication
- Measurement of up to 750V AC and up to 1000V DC
- Auto ranging on all insulation ranges
- Adjustable test time from 1 minute to 30 minutes
- Auto hold to freeze measurement readings
- 500 recordings can be saved in memory and recalled onto the display
- Alarm when the measured value is larger or smaller than the alarm setting value
- Auto Power Off



Function	Range	Accuracy
Insulation	250V – 1000GΩ	±(3.0% +5)
	500V – 2000GΩ	±(3.0% +5)
	1000V – 5000GΩ	±(3.0% +5)
	2500V – 1TΩ	±(3.0% +5)
	5kV – 10TΩ	±(3.0% +5)
	10kV – 35TΩ	±(3.0% +5)
AC Voltage	0.1V – 750V	±(1.5% +3)
DC Voltage	0.1V – 1000V	±(1.5% +3)
DC Current	0.01nA – 6mA	±(5% +2)
Capacitance	10nF – 50μF	±(10% +5)
Short Circuit Current	6mA	
Current Measurement	0.1nA to 50μA (Depending on insulation resistance)	
Batteries	12.6V Rechargeable Lithium Batteries	
Dimensions	240 x 188 x 85mm	
Weight	2.75kg	

IEC  
61010-1  
CAT III  
300V



LCD Display



Voltage Selection Buttons



Line, V, Guard and Earth Interfaces

**MT577**

**10kV Diagnostic High Voltage Insulation Tester**

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