

5kV Insulation Tester



Technical Datasheet



The MT570 is a CAT IV 600V Digital High Voltage Tester with measurements from 500V DC to 5000V DC, and will automatically discharge the circuit after the test has been completed. Using the rotary selector switch, 4 preset ranges of 500V, 1000V, 2500V and 5000V can be selected, with an insulation resistance up to 1TΩ. The microprocessor controlled MT570 has the capabilities of being a diagnostic tool and is intended for testing insulation on Rotating Machines, Transformers, Cables, High Voltage Generators, Electric Circuits and Surge Arrestors as the short circuit current output is up to 5mA. 200 test measurement results can be saved in the memory of the meter and recalled onto the LCD display. The large intelligent LCD display consists of 2 lines x 16 characters, indicating the reading of insulation, measuring time, output voltage and output current. The MT570 can measure AC and DC voltage up to 600V and is housed in a robust case ideal for extended field use, powered by 8 pieces "C" 1.5V batteries.

Features:

- Insulation Test Voltages from 500V to 5000V
- Microprocessor controlled with 2 lines x 16 characters intelligent display
- Short circuit current up to 5mA
- DAR - Dielectric Absorption Ratio indication
- PI – Polarization Index indication
- Measurement of AC and DC voltage up to 600V
- Auto ranging on all insulation ranges
- Adjustable test time from 1 minute to 30 minutes
- Auto hold to freeze measurement readings
- 200 measurement results can be saved in memory and recalled onto the display
- Visual and audible warning of external voltage greater than 30V AC and DC
- Date and Time calendar

General Specifications

Functions	Range	Accuracy
Insulation	500V - 100GΩ	±(5.0% +5)
	1000V - 200GΩ	±(5.0% +5)
	2500V - 500GΩ	±(5.0% +5)
	5000V - 1TΩ	±(5.0% +5)
Current Measurement	0.5nA to 0.55mA (Depending on insulation resistance)	
Short Circuit Current	5mA	
AC Voltage	30.0V - 600V	±(2.0% +3)
DC Voltage	30.0V - 600V	±(2.0% +3)
Batteries	8 x C Alkaline	
Dimensions	250 x 190 x 127mm	
Weight	2.07kg	

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