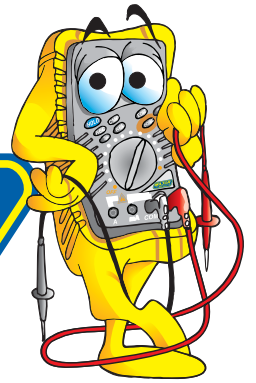


# High Voltage Digital Insulation Tester

**MAJOR  
TECH**



## Technical Data

### MT570

The MT570 is a microprocessor controlled High Voltage Tester, with a 4 range functionality of Insulation resistance 500 up to 5000V, AC/DC voltage measurement, resistance and continuity. Polarization Index can be measured by the automatic measurement function of the ratio of resistance in 1 min to 10 min, (Pass/Fail).



#### Features Include:

- DC test Voltage in 500V, 1000V, 2500V and 5000V
- Bargraph display with Back Light
- Polarization Index and DAR
- Indication of output voltage and auto discharge function
- AC Power adaptor recommended at 5000V
- Built in Timer
- Live circuit warning symbols with audio warning

#### General Specifications

Applicable Standards	: IEC1010 CATIV 600V overvoltage and double insulation standard
Display	: 6000 counts LCD display with bargraph
Sampling Rate	: 2.5 readings per second
Over Range Indicator	: "OL" displayed
Fuse	: 500mA/600V (ø6X32mm) ceramic 3AG fast blow
Zero Adjustment Automatic	
Auto Power Off	: Power off function operates automatically after a switch remains for 20min (current consumption approx. 50µA)
Low Battery Indicator	: Low battery symbol displayed when battery voltage is low
Environmental Installation	: Category II, Pollution degree 2, Altitude up to 2000 meters, Indoor use only
Power Source	: 8 X 1.5V (R14) batteries
Operating Temperature	: 0 to 40°C (32 to 104°F); < 80% RH
Storage Temperature	: -10 to 60°C (14 to 140°F); < 80% RH
Dimensions	: 198(L) X 148(W) X 86(D)mm
Weight	: 1438g



Insulation Resistance Measurement				
	500V	1000V	2500V	5000V
<b>Measuring Range</b> (auto-ranging)	0.005 to 6.000M $\Omega$	0.005 to 6.000M $\Omega$	0.05 to 60.00M $\Omega$	0.05 to 60.00M $\Omega$
	6.01 to 60.00M $\Omega$	6.01 to 60.00M $\Omega$	60.1 to 600.0M $\Omega$	60.1 to 600.0M $\Omega$
	60.1 to 600.0M $\Omega$	60.1 to 600.0M $\Omega$	0.61 to 6.00G $\Omega$	0.61 to 6.00G $\Omega$
	0.61 to 6.00G $\Omega$	0.61 to 6.00G $\Omega$	6.1 to 60.0G $\Omega$	6.1 to 60.0G $\Omega$
	DC 500V +20%, -0%	DC 1000V +20%, -0%	DC 2500V +20%, -0%	DC 5000V +20%, -0%
<b>Rated Current</b>	1 to 1.2mA (at 0.5M $\Omega$ load)	1 to 1.2mA (at 1M $\Omega$ load)	1 to 1.2mA (at 2.5M $\Omega$ load)	1 to 1.2mA (at 5M $\Omega$ load, Recommended use of the power adaptor)
	Approx. 1mA			
<b>Accuracy</b>	$\pm 2.5\%$ reading $\pm 15$ digits (0.005 to 600.0M $\Omega$ ) $\pm 3\%$ reading $\pm 15$ digits (0.61 to 6.00G $\Omega$ ) $\pm 4\%$ reading $\pm 15$ digits (6.1 to 60.0GM $\Omega$ )			
<b>Voltage Monitor Range</b>	5 to 6000VDC (Resolution 1V); Accuracy: $\pm 1.5\%$ reading $\pm 5$ digits			
	<b>Note:</b> This monitor is used to check whether electric charge stored on the equipment under test is discharged or not. Measured voltage value displayed on the LCD is a reference value. Please be noted that the indicative value, when external AC or DC voltage is applied to the instrument is not the correct value. is display "> 30V".			
DC/AC Voltage Measurement				
	Range	Resolution	Accuracy	
<b>DC Voltage</b>	0.5 to 600.0V	0.1V	$\pm 1.0\%$ reading $\pm 5$ digits	
<b>AC Voltage</b> (40Hz ~ 400Hz)	0.5 to 600.0V	0.1V	$\pm 1.0\%$ reading $\pm 5$ digits (40 to 60Hz) $\pm 2.5\%$ reading $\pm 10$ digits (61 to 400Hz)	
Low Resistance Measurement & Continuity Check				
	Range	Resolution	Accuracy	
<b>Resistance</b> (auto-ranging)	0.1 to 600.0 $\Omega$	0.1 $\Omega$	$\pm 1.5\%$ reading $\pm 10$ digits	
	601 to 6.000k $\Omega$	0.001k $\Omega$	$\pm 1.5\%$ reading $\pm 15$ digits	
<b>Continuity Buzzer:</b> $\leq 50\Omega$				
<b>Short Circuit Current:</b> $\geq 200$ mA				
<b>Open Circuit Test Voltage:</b> $\geq 4.5$ V				

