



## DT-5500

### DIGITAL INSULATION TESTER

- | Hand held Battery Operation
- | Insulation Resistance Test Voltage 250V/500V/1000V
- | Insulation Resistance Range upto 2000M $\Omega$
- | Displays Battery Voltage with Test Result
- | Continuous operation in "HANDS FREE" mode is also possible
- | Also measures Simple Resistance
- | Can measure AC/DC Voltage
- | Can conduct Continuity Test
- | Data Hold Function
- | Backlit Super Large LCD Display

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# DT-5500

## Digital Insulation Tester

### General Specifications

Environment conditions	Installation Categories II <ul style="list-style-type: none"> <li>■ Pollution Degree 2</li> <li>■ Altitude up to 2000 meters</li> <li>■ Indoor use only</li> <li>■ Relatively humidity 80% max.</li> <li>■ Operation Ambient 0~40°C</li> </ul>
Display	Large LCD with dual display
Measurement Range	200Ω, 200kΩ, 200MΩ/250V, 200MΩ/500V, 2000MΩ/1000V, 750V ACV, 1000V DCV
Sampling Rate	2.5 times per second
Zero Adjustment	Automatic adjustment
Over Range Indicator	Number 1 of highest digit is displayed
Low Battery Indication	The $\pm$ is displayed when the battery Voltage drop below the operating voltage
Operating Temperature	0°C to 40°C (32°F to 104°F) and Humidity below 80% RH
Storage Temperature	-10°C to 60°C (14°F to 140°F) and Humidity below 70% RH
Power source	DC9V (6x1.5V Size "AA" battery or Equivalent)
Dimensions	200(L) x 92(W) x 50(H) mm
Weight	Approx 700g include battery



### Electrical Specifications

Accuracies are specified in the way :  $\pm$ (...% of reading + ...digits) at 23°C $\pm$ 5°C, below 80% RH.

#### OHMS

Range	Resolution	Accuracy	Max. open Circuit Voltage	Overload Protection
200Ω	0.1Ω	$\pm$ (1%+2)	4.5V	250Vrms
200kΩ	0.1kΩ		3.0V	

#### Continuity Beeper

Range	Resolution	Operation Resistance	Max. open Circuit Voltage	Overload Protection
•)))	0.1Ω	Resistance $\leq$ 40Ω	4.5V	250Vrms
Short circuit current		$\leq$ 200mA		

#### DC Voltage

Range	Resolution	Accuracy	Input Impedance	Overload Protection
1000V	1V	+(0.8%+3)	10MΩ	1000Vrms

#### AC Voltage

Range	Resolution	Accuracy	Input Impedance	Overload Protection
750V	1V	+(1.2%+10)	10MΩ	750Vrms

#### Meg OHMS

Range	Resolution	Accuracy	Terminal Voltage
200MΩ/250V	0.1MΩ	+(3%+5)	250V+10% ~ -0%
200MΩ/500V	0.1MΩ		500V+10% ~ -0%
0~1000MΩ/1000V	1MΩ	+(5%+5)	1000V+10% ~ -0%
1000~2000MΩ/1000V			

Range	Test Current	Short circuit current
200MΩ/250V	1mA	$\leq$ 1mA
200MΩ/500V		
0~1000MΩ/1000V	1MΩ	
1000~2000MΩ/1000V		

### Accessories

Test leads, 6pcs battery, Carrying case, Instruction Manual, Test Certificate.

Contact :

**CEM INSTRUMENTS (INDIA) PVT. LTD.**

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The high voltage insulation resistance tester is a handheld instrument designed primarily to make AC/DC voltage, resistance, Continuity test I insulation resistance measurement.



## DT-6605

### DIGITAL HIGH VOLTAGE INSULATION TESTER

#### Safety Information

This Insulation resistance tester complies with the standards IEC61010 safety measurement requirement: in pollution degree 2, overvoltage category (CAT IV 600V) and double insulation.



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# DT-6605 | Digital High Voltage Insulation Tester

## Features

The Tester is a micro computer controlled, High Voltage Insulation Resistance Tester with 4-range for measuring insulation resistance and AC/DC Voltage, Resistance/Continuity test

- I Designed to following safety standards:
  - IEC 61010-1 (CATIV 600V Pollution degree 2)
  - IEC 61010-031 (Requirements for hand-held probes)
- I Insulation test range : 0.1MΩ to 60GΩ
- I Insulation test voltages : 500V/1000V/2500V/5000V
- I AC/DC Voltage : 0.5V to 600V
- I 200mA Continuity
- I Resistance : 0.1Ω to 6kΩ
- I With auto-discharge function & voltage output warning function
- I When insulation resistance like a capacitive load is measured, electric charges stored in capacitive circuits are automatically discharged after measuring. Discharge can be checked with live voltage graph
- I Backlight levels selector function to facilitate working at dimly illuminated location or at night time work
- I Live circuit warning symbols plus audible warning
- I Live circuit detection prevents insulation test if voltage >30V is detected for added user protection
- I With Auto-power off function & battery check
- I With Time measurement function
- I Automatically performs a measurement at the set time
- I With Polarization Index measurement (PI)
- I The Polarization Index can be measured by the automatic measurement function of the ratio of resistance in 1min. and 10 min. two point time and automatic (Pass/Fail)
- I With Dielectric Absorption Ratio measurement (DAR)
- I The Dielectric Absorption Ratio measured by the automatic measurement function of the ratio of resistance in 30sec. and 1 min. two point time and automatic (Pass/Fail)
- I Auto ranging with larger 6000 counts LCD display with bargraph
- I MAX/MIN, PEAK. Relative Value & Data Hold Functions for DC/AC voltage measurements
- I Power source 1.5V x 8 (LR14/R14) Batteries

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# DT-6605 | Digital High Voltage Insulation Tester

## Technical Specifications

Insulation Resistance Measurement				
Rated Voltage	500V	1000V	2500V	5000V
Measuring Range (Auto-Ranging)	0.005 to 6.000MΩ	0.005 to 6.000MΩ	0.05 to 60.00MΩ	0.05 to 60.00MΩ
	6.01 to 60.00MΩ	6.01 to 60.00MΩ	60.1 to 600.0MΩ	60.1 to 600.0MΩ
	60.1 to 600.0MΩ	60.1 to 600.0MΩ	0.61 to 6.00GΩ	0.61 to 6.00GΩ
	0.61 to 6.00GΩ	0.61 to 6.00GΩ	6.1 to 60.0GΩ	6.1 to 60.0GΩ
Open Circuit Voltage	DC 500V +20%,-0%	DC 1000V +20%,-0%	DC 2500V +20%,-0%	DC 5000V +20%,-0%
Rated Current	1 to 1.2mA (at 0.5Mn load)	1 to 1.2mA (at 1Mnload)	1 to 1.2mA (at 2.5Mn load)	1 to 1.2mA (at 5Mn load, Recommended use of the Power Adaptor)
Short Circuit Current	Approx.1 mA			
Accuracy	±2.5%reading ±15digits (at 0.005 to 600.0MΩ)			
	±3%reading ±15digits (at 0.61 to 6.00GΩ)			
	±4%reading ±15digits (at 6.1 to 60.0GΩ)			
Voltage Monitor Range	5 to 6000VDC (Resolution 1V); Accuracy ±1.5%reading ±5digits			

DC/AC Voltage Measurement			
	Range	Resolution	Accuracy
DC Voltage	0.5 to 600.0V	0.1V	±1.0% reading ±5digits
AC Voltage (40 to 400Hz)	0.5 to 600.0V	0.1V	±1.0% reading ±5digits (40 to 60Hz) ±2.5% reading ±10digits (61 to 400Hz)

Low Resistance Measurement Continuity Check			
	Range	Resolution	Accuracy
Resistance (Auto-Range)	0.1 to 600.0n	0.1nΩ	±1.5% reading ±10digits
	601 to 6.000kn	0.001kΩ	±1.5% reading ±15digits

Continuity Buzzer ≤ 50Ω

Short Circuit Current ≥ 200mA

Open Circuit Test Voltage ≥ 4.5V

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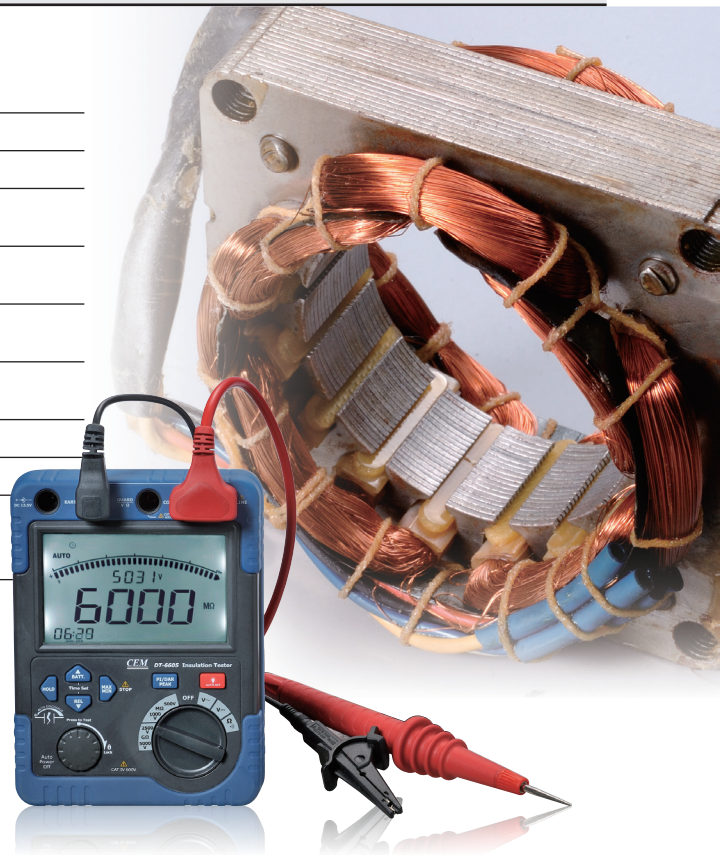
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## General Specifications

Applicable standards	IEC 1010 CAT IV 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 (6X32mm) ceramic 3AG Fast blow
Zero adjust 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 Conditions	0 to 40°C(32 to 104°F); <80%RH
Storage Conditions	-10 to 60°C(14 to 140°F); <80%RH
Dimensions	198(L) x 148(W) x 86(D)mm
Weight	1438g

## Accessories

Item	Description	Qty
1	User Manual	1 piece
2	One plug test lead to one alligator clip (Black colour)	1 piece
3	One plug test lead to one alligator clip (Green colour)	1 piece
4	One plug test lead to one alligator clip (Red colour)	1 piece
5	Two plugs test lead to one alligator clip (Red colour)	1 piece
6	1.5V Battery_(LR14)	8 pieces
7	Carrying Case	1 piece
8	Power adaptor (input voltage 110V to 230V. 50/60Hz, 75mA. output DC13.5V.1.0A) (Optional available at extra cost)	1 piece



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