

DIGITAL SOLAR TRUE RMS MULTIMETER DT450

APPLICATION: This is a 3½ Digits Multirange True RMS Multimeter with Backlight. This instrument can be used to measure AC/DC Voltage, AC/DC Current, Resistance, Capacitance and other parameters. Use for Solar Panel And other electrical works.

FEATURES:

- Display: 3 ½ digits 2000 Count
- Over Range Indication,
- Overload Protection
- Data hold & Back Light
- Auto/Manual Ranging
- Sampling Time 0.4 Seconds
- Auto Power off: 15 mins.
- ACV-Hz
- **1000V CAT III/ 600V CAT IV**
- Operating Temperature & Humidity: 0°C to 40°C, < 80% RH
- Storage Temperature & Humidity: -10°C to 50°C, < 80% RH
- Display Size: 60*50 mm
- Power Supply :9V Battery.
- Unit Size 180 X 85 X 42 mm
- Weight: 350 gms including battery.



SPECIFICATION:

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1mV	$\pm(0.5\% + 3)$
2V	1mV	
20V	10mV	
200V	100mV	
1000V	1V	$\pm(0.8\% + 5)$
2000V	1V	$\pm(2\% + 5)$

-Input impedance: 200mV>100MΩ, Others are 10M.

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	1mV	$\pm(0.8\% + 5)$
20V	10mV	
200V	100mV	
700V	1V	$\pm(1.2\% + 7)$
2000V	1V	$\pm(3\% + 5)$

-Input impedance: 200mV>100MΩ, Others are 10M.

-Frequency Range: 10Hz~1kHz (700V, 2000Vmeasuring range 10Hz~100Hz)Display: True RMS

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200μA	0.1μA	$\pm(0.8\% + 5)$
2mA	1μA	
20mA	10μA	
200mA	100μA	$\pm(1.2\% + 5)$

Over load Protection: F 0.2A/250V fuse.

Measure Voltage: approximately 200mV full measure range.

AC CURRENT

RANGE	RESOLUTION	ACCURACY
20mA	10μA	$\pm(1.5\% \text{ of reading} + 5 \text{ digits})$
200mA	100μA	$\pm(1.5\% \text{ of reading} + 5 \text{ digits})$

Over load Protection: F 0.2A/250V fuse.

-Measure Voltage: approximately 200mV full measure range.

-Frequency Range: 10Hz~1kHz

-Display: True RMS

RESISTANCE Ω

RANGE	RESOLUTION	ACCURACY
200 Ω	0.1 Ω	$\pm(1\% + 5)$
2k Ω	1k Ω	$\pm(0.8\% + 5)$
20k Ω	10k Ω	
200k Ω	100k Ω	
2M Ω	1k Ω	
20M Ω	10k Ω	$\pm(2\% + 5)$
200M Ω	100k Ω	$\pm(5\% + 10)$

Overload protection: 220V Virtual value.

Plough Voltage: <1V

CAPACITANCE (Auto Range)

RANGE	RESOLUTION	ACCURACY
20nF	10pF	$\pm(3\% + 10)$
200nF	100pF	
2 μ F	1nF	
20 μ F	10nF	
200 μ F	100nF	$\pm(5\% + 10)$
2000 μ F	1 μ F	

Overload protection: F 200mA/250V fuse

DIODE AND CONTINUITY TEST

RANGE	ILLUSTRATION	TEST CONDITIONS
	Display the diode forward voltage approximation	Positive direction DC1mA Reverse direction DC2.2V
	Break over resistance<approximately 50 Ω beep rings, display the resistance approximation	Plough voltage about 2V

SAFETY INFORMATION:

This Multimeter Design conforms to EN61010-1 1000V CAT III, 600V CAT IV and pollution degree 2 safety requirements for standards. For longer product lifetime and better product performance, please use it with caution and maintain it properly.

ACCESSORIES: Instruction Manual, Test Leads, 9V Battery.

