DIGITAL TRUE RMS CLAMP METER DT27PRO+

APPLICATION: This is a **3½** Digits True RMS Clamp Meter with Backlight. This instrument can be used to measure, AC/DC Voltage, AC Current, Resistance, Capacitance, Temperature, Frequency and other parameters. It is an ideal tool for the Electricians, Engineers, Factories, Industries, Laboratories, Students, Household.

FEATURES:

- Display: **3½** Digits with 3999 Count
- Clamp Jaw Opening Size: 26mm
- Continuity & Diode
- Data Hold Function
- Over Range Indication,
- Overload Protection
- Low Battery Indication
- Auto Power off: After 15 minutes from last key operation Backlight
- Reading rate**:** 3 times/ second
- Operating Temperature & Humidity: 0°C To 40°C, <80%RH
- Storage Temperature & Humidity: **-**10°C To 50°C, <70%RH
- **Measuring Category: CATII 600V**
- Power supply: 2 x 1.5V AAA Batteries
- Dimension**:** 185×67×35mm
- Weight: 178gm Excluding Batteries

SPECIFICATION:

DC Voltage

Ranges	Resolution	Accuracy
4V	0.001V	± (0.8% of reading + 3)
40V	0.01V	
400V	0.1V	
600V	1V	± (1.0% of reading + 3)

- Maximum input voltage: 600V DC RMS
-Input impedance: 10MΩ

AC Voltage

Ranges	Resolution	Accuracy
4V	0.001V	± (1.0% of reading + 10)
40V	0.01V	
400V	0.1V	
600V	1V	± (1.2% of reading + 10)

-Input impedance: 10MΩ.
-Over load Protection: 600V DC or 600V AC (RMS),
- Maximum input voltage: 600V AC (RMS)
-Response: True RMS
-Frequency Response: 40Hz~1kHz
Note: AC/DC voltage
At low voltage ranges, the meter may display fluctuating readings when probes are not connected to the circuit. This is normal and results from the meter's high sensitivity. Connecting probes to the circuit will yield accurate measurements.

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AC CURRENT(50Hz-1000Hz)

RANGE	RESOLUTION	ACCURACY
4A	0.001A	±(2.5% + 10)
40A	0.01A	
400A	0.1A	
600A	1A	

Maximum input current: 600A / Frequency range: 50–60Hz /
Response: True RMS
When measuring AC current, position the conductor to be tested at the center of the jaws. If not centered, positional error may increase by up to 1.5%.

RESISTANCE

RANGE	RESOLUTION	ACCURACY
400Ω	0.1Ω	±(1.2% of reading + 3)
4kΩ	0.001kΩ	
40kΩ	0.01kΩ	
400kΩ	0.1kΩ	
4MΩ	0.001MΩ	
40MΩ	0.01MΩ	±(2.0% of reading + 5)

Overload protection: 250V DC/AC

FREQUENCY :

RANGE	RESOLUTION	ACCURACY
4Hz	0.001Hz	±(2.5% of reading + 10)
40Hz	0.01Hz	
400Hz	0.1Hz	
4kHz	0.001kHz	
40KHz	0.01kHz	
400KHz	0.1kHz	
4MHz	0.001MHz	

Over load Protection: 250V DC or AC
Measurement Signal: Vpp 30mV
AC Signal: Note: As the measurement frequency increases, the Vpp input signal also increases.

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
4nF	0.001nF	±(4.0% of reading + 5)
40nF	0.01nF	±(4.0% of reading + 3)
400nF	0.1nF	
4μF	0.001μF	
40μF	0.01μF	
400μF	0.1μF	
4mF	0.001mF	
40mF	0.01mF	

Overload protection: 250V DC or AC

DIODE & CONTINUITY

Function	Note
Diode	Display approximate forward voltage drop of diodes
On/Off	Built-in buzzer sounds when tested resistance is below 50 Ω
NCV	Indicates signal strength based on distance from power source with varying beep frequencies
LIVE	Displays “H” and sounds alarm when testing live wire; no response for neutral wire
POWER OFF	Automatically powers off after 15 minutes without signal input

TEMPERATURE:

RANGE	RESOLUTION	ACCURACY
-20~1000°C	1°C (2°F)	±(2.5% of reading + 5)
-4°F ~1832°F		±(2.5% of reading + 6)

Temperature indicators do not include thermocouple errors.

ACCESSORIES:

Instruction Manual, 1 Set of Test Lead, 2pc AAA Batteries.