

DIGITAL TRUE RMS AC/DC CLAMP METER DT36T

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

FEATURES:

- Display: 3½ 5999 Count LCD Display with Backlight & Torch.
- Non-Contact AC Voltage Detector.
- Low Battery Indication
- Overload Protection
- Over Range Indication,
- Auto Ranges.
- The Maximum allowable voltage between the measuring terminal and the earth: 600V DC or 600V AC RMS.
- Reading Rate: 3 times/sec.
- Operating Temperature & Humidity: 0°C To 40°C, <80%RH
- Storage Temperature & Humidity: -10°C To 60°C, <70%RH
- Clamp Jaw Opening Size: 28mm
- **CAT III 600V**
- Power supply: 1 X 9V Battery
- Display Size: 35 x 18 mm
- Unit Size: 209×76×40mm
- Weight: 195gm (Including Batteries)



SPECIFICATION:

DC Voltage

Ranges	Resolution	Accuracy
600mV	0.1mV	± (0.8% of reading + 2)
6V	0.001V	
60V	0.01V	
600V	0.1V	± (1% of reading + 2)

- Input impedance: 10MΩ, overload protection: 600mV range: 250V DC or AC (RMS), 6V-600V range: 600V DC or 600V AC (RMS)
- Maximum input Voltage: 600V DC

AC Voltage

Ranges	Resolution	Accuracy
6V	0.001V	± (1.2% of reading + 10words)
60V	0.01V	
600V	0.1V	± (1.5% of reading + 10words)

- Input impedance: 10MΩ.
- Over load Protection:** 600V DC or 600V AC (RMS),
- Frequency Range: 40Hz~1kHz. TRMS

LowZ DC/AC Voltage Measurement

Range	Resolution	Accuracy
600V DC/AC	0.1V	±(0.8% reading + 2 words)

- Input impedance: 1MΩ
- Measuring frequency range: 40Hz~1000Hz
- Maximum allowable input voltage: 600V DC or 600V AC RMS

AC and DC CURRENT

RANGE	RESOLUTION	ACCURACY
60A	0.01A	±(4% reading + 10)
600A	0.1A	

Maximum input Current: 600A AC
 Frequency Range: 50Hz~60Hz
 Response: True RMS

NCV (NON CONTACT AC VOLTAGE DETECTOR)

FUNCTION	FREQUENCY	VOLTAGE
NCV	50Hz – 500Hz	90V-1000V

Do not input voltage in NCV mode

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±(1.2% of reading + 2)
6kΩ	0.001kΩ	
60kΩ	0.01kΩ	
600kΩ	0.1kΩ	
6MΩ	0.001MΩ	
60MΩ	0.1MΩ	±(2.0% of reading + 5)

- Open circuit Voltage: above 0.4V
- Overload protection: 250V DC or AC (RMS)

FREQUENCY :

Clamp head frequency measurement (through A file)

RANGE	RESOLUTION	ACCURACY
600Hz	0.1kHz	±(1.5% of reading + 5)
1kHz	0.001kHz	
>1kHz	0.001kHz	Just for reference

- Measurement range: 10 Hz to 1 kHz
- Input Signal Range: ≥5A AC (Input current will increases, with the increase of the measured frequency)
- Maximum input voltage: 600A

Through V file

RANGE	RESOLUTION	ACCURACY
600Hz	0.1Hz	±(1.5% of reading + 5)
6kHz	0.001kHz	
10kHz	0.01kHz	
>10kHz	0.01kHz	Just for reference

- Measurement range: 10 Hz to 10 kHz
- Input Signal Range: ≥0.2V AC (Input current will increases, with the increase of the measured frequency)
- Input impedance: 10MΩ
- Maximum input voltage: 600V AC (RMS)

DUTY CYCLE:

RANGE	RESOLUTION	ACCURACY
10-95%	0.1%	±3%

Through the A file (from the clamp head):

- Frequency response: 10 ~ 1kHz
- Input Current Range: ≥1A AC (Input current will increases, with the increase of the measured frequency)
- Maximum input voltage: 600A

Through the V file:


- Frequency response: 10 ~ 10kHz
- Input Voltage Range: ≥0.2V AC (Input current will increases, with the increase of the measured frequency)
- Input impedance: 10MΩ
- Maximum input voltage: 600V AC (RMS)

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
60nF	0.01nF	±(4.0% of reading + 3)
600nF	0.1nF	
6μF	0.001μF	
60μF	0.01μF	
600μF	0.1μF	
6mF	0.001mF	
60mF	0.01mF	


Overload protection: 250V DC or AC (RMS)

DIODE

RANGE	RESOLUTION	FUNCTION
	0.001V	Display diode forward voltage approximation.

- Forward DC Current is about 1mA
- Reverse DC Voltage is about 3.2V
- Overload Protection: 250V DC or AC (RMS)

CONTINUITY TEST

RANGE	RESOLUTION	FUNCTION
	0.1Ω	If the measured line resistance is less than 50Ω, the buzzer inside the instrument will sound.

- Open circuit Voltage is about 2.5V.
- **Overload protection:** 250V DC or AC (RMS)

ACCESSORIES:

Instruction Manual, 1 Set of Test Lead, 9V Battery & carrying Pouch.

