

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: 209x76x40mm
- 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 | |

AC Voltage

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

-Input impedance: 10MΩ.

-Over load Protection: 600V DC or 600V AC (RMS),

-Frequency Range: 40Hz~1kHz. TRMS

-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

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 | |

-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 | |

-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.

