

## DIGITAL TRUE RMS CLAMP METER DT2250

**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 5999 Count
- Clamp Jaw Opening Size: 51mm
- Continuity & Diode
- Data Hold Function
- Over Range Indication,
- Over-range indication: The LCD display will show "OL".
- Low Battery Indication
- Input polarity indicator: Automatically displays a "-" sign
- 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: CATIII 600V**
- Power supply: 1.5V Volt AAA Battery
- Dimension: 240×85×34mm
- Weight: 276gm Including Battery

### SPECIFICATION:

#### **DC Voltage**

| Ranges | Resolution | Accuracy                |
|--------|------------|-------------------------|
| 600mV  | 0.1mV      | ± (0.8% of reading + 5) |
| 6V     | 0.001V     |                         |
| 60V    | 0.01V      |                         |
| 600V   | 0.1V       |                         |
| 1000V  | 1V         | ± (1% of reading + 2)   |

-Maximum input voltage: 1000 V DC RMS

-Input impedance: 10MΩ

#### **AC Voltage**

| Ranges | Resolution | Accuracy                     |
|--------|------------|------------------------------|
| 6V     | 0.001V     | ± (1% of reading + 35words)  |
| 60V    | 0.01V      |                              |
| 600V   | 0.1V       |                              |
| 1000V  | 1V         | ± (1.2% of reading + 3words) |

-Input impedance: 10MΩ.

-Response: True RMS

-Maximum input voltage: 1000V AC RMS

-Frequency Response: 40Hz~1kHz,



## AC CURRENT

| RANGE | RESOLUTION | ACCURACY                            |
|-------|------------|-------------------------------------|
| 60A   | 0.01A      | $\pm(3.5\% \text{ of reading} + 5)$ |
| 600A  | 0.1A       |                                     |
| 1000A | 1A         |                                     |

Maximum input Current: 1000A

Response: True RMS

## RESISTANCE

| RANGE         | RESOLUTION      | ACCURACY                            |
|---------------|-----------------|-------------------------------------|
| 600 $\Omega$  | 0.1 $\Omega$    | $\pm(1.2\% \text{ of reading} + 3)$ |
| 6k $\Omega$   | 0.001k $\Omega$ |                                     |
| 60k $\Omega$  | 0.01k $\Omega$  |                                     |
| 600k $\Omega$ | 0.1k $\Omega$   |                                     |
| 6M $\Omega$   | 0.001M $\Omega$ |                                     |
| 60M $\Omega$  | 0.01M $\Omega$  | $\pm(2.0\% \text{ of reading} + 5)$ |

Overload protection: 250V DC /AC

## FREQUENCY :

| RANGE  | RESOLUTION | ACCURACY                           |
|--------|------------|------------------------------------|
| 6Hz    | 0.001Hz    | $\pm(2\% \text{ of reading} + 10)$ |
| 60Hz   | 0.01Hz     |                                    |
| 600Hz  | 0.1Hz      |                                    |
| 6kHz   | 0.001kHz   |                                    |
| 60kHz  | 0.01kHz    |                                    |
| 600kHz | 0.1kHz     |                                    |
| 6MHz   | 0.001MHz   |                                    |

Overload protection: 250 V DC or AC (RMS) –

Measurement signal: 3 V Vpp AC signal

Through Gear V:

| RANGE  | RESOLUTION | ACCURACY                            |
|--------|------------|-------------------------------------|
| 10-95% | 0.1%       | $\pm(3.0\% \text{ of the reading})$ |

## CAPACITANCE

| RANGE       | RESOLUTION    | ACCURACY                           |
|-------------|---------------|------------------------------------|
| 6nF         | 0.001nF       | $\pm(4\% \text{ of reading} + 20)$ |
| 60nF        | 0.01nF        | $\pm(4\% \text{ of reading} + 5)$  |
| 600nF       | 0.1nF         |                                    |
| 6 $\mu$ F   | 0.001 $\mu$ F |                                    |
| 60 $\mu$ F  | 0.01 $\mu$ F  |                                    |
| 600 $\mu$ F | 1 $\mu$ F     |                                    |
| 6mF         | 0.001mF       |                                    |
| 60mF        | 0.01mF        |                                    |

Overload protection: 250V DC or AC peak

## DIODE & CONTINUITY

| RANGE                                                                             | DISPLAY                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------|
|  | Diode forward voltage drop                       |
|  | Beeper sounding resistance value<br><50 $\Omega$ |

## TEMPERATURE:

| RANGE        | RESOLUTION  | ACCURACY                            |
|--------------|-------------|-------------------------------------|
| -20~1000°C   | 0.1°C (1°F) | $\pm(1.5\% \text{ of reading} + 5)$ |
| -4°F ~1832°F |             | $\pm(2\% \text{ of reading} + 5)$   |

## ACCESSORIES:

Instruction Manual, 1 Set of Test Lead, 1 pc

Temperature Probe, 3pc 1.5V Battery & carrying Pouch.