

Professional AC/DC True RMS Clamp Meters DT-9481

APPLICATION: Professional AC/DC True RMS Industrial Clamp Meter and TFT color LCD display, 6000 counts. Providing fast A/D converting sampling time, high accuracy. It is easy to find and solve the problems of the Production equipment, Providing Bluetooth technology. It is much more safe measurements with double molded plastic housing design and IP65 waterproof function.

FEATURES:

- 2.4" TFT color 6000 counts LCD display for easy and clear viewing of images and readings
- True RMS measurement for ACV / ACA / LoZ for ACV measurement
- Flexible current probe 320Bs expands the measurement range to 3000 ACA.
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- 1.4" (37mm) Jaw opening
- AC, AC+DC True RMS measurement & 1KHz ACV, ACA bandwidth
- **CAT IV 600V, CAT III 1000V, CAT II 1500V**
- A/D convert fast sampling time: 10 times/sec
- Peak capture as fast as 500 μ S & Inrush current
- Min/Max/Avg with Time stamp (records signal fluctuations)
- With Bluetooth connect to ThermoView+ smart phone App for documentation reporting and sharing
- Logging function with Trend capture for easy review of logged data
- Double molded plastic housing for safe testing and flashlight for dark location
- Operating Temperature & Humidity: 5 to 40°C (41 TO 104°F), <80%RH
- Storage Temperature & Humidity: -20 to 60°C (-4 TO 140°F), <80%RH



SPECIFICATION:

DC Voltage

Ranges	Resolution	Accuracy
600.0mV	0.1mV	$\pm (0.8\% + 8 \text{ digits})$
6.000V	0.001V	
60.00V	0.01V	
600.0V	0.1V	$\pm (0.8\% + 5 \text{ digits})$
1500V	1V	

-Input impedance >10M Ω ; Protection against overcharge:1500VDC/1000 VAC rms

AC TRMS Voltage

Ranges	Resolution	Accuracy
6.000V	0.001V	50Hz-60Hz: $\pm (1.2\% + 5 \text{ digits})$ 61Hz-1kHz: $\pm (2.5\% + 5 \text{ digits})$
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	

Protection against overcharge: 1000VDC /ACrms.

Accuracy specified from 10% to 100% of the measuring range, sine wave:

Input impedance:>9M Ω :

Accuracy PEAK function: $\pm 10\%$ rdg. PEAK response time:1ms

LowZ AC	6.000V	0.001V	±(3.0+40digits)
TRMS	60.00V	0.01V	
Voltage	300.0V	0.1V	

Input impedance:300kΩ; Protection against overcharge:1000VDC/ACrms.

Accuracy specified from 10% to 100% of the measuring range, sine wave.

AC+DC TRMS Voltage (50Hz-1kHz)	RANGE	RESOLUTION	ACCURACY
	6.000V	0.001V	±(2.5% + 20 digits)
	60.00V	0.01V	
	600.0V	0.1V	
	1000V	1V	

Input impedance>10MΩ; Protection against overcharge: 1000VDC/ACrms

LowZ AC +DC TRMS Voltage	6.000V	0.001V	±(3.5+40digits)
	60.00V	0.01V	
	300.0V	0.1V	

Input impedance:300kΩ; Protection against overcharge:1000VDC/ACrms.

DC CURRENT

RANGE	RESOLUTION	ACCURACY
60.00A	0.01A	±(2.0% + 8 digit)
600.0A	0.1A	
1000A	1A	

Protection against overcharge:1000ADC/ACrms.

AC TRMS Current (50Hz-60Hz)

60.00A	0.01A	±(2.5% + 5 digits)
600.0A	0.1A	
1000A	1A	

Protection against overcharge: 1000ADC /ACrms.
Accuracy specified from 10% to 100% of the measuring range, sine wave.

Accuracy Inrush function integral time 100ms, and reading for reference only.

Flexible Coil current (50Hz-400Hz)

30.00A	0.01A	±(3.0% + 5 digits)
300.0A	0.1A	
3000A	1A	

Protection against overcharge: 1000ADC /ACrms.
Accuracy specified from 10% to 100% of the measuring range, sine wave:

RESISTANCE AND CONTINUITY TEST

RANGE	RESOLUTION	ACCURACY/AC
600.0Ω	0.1Ω	±(1.0% + 10 Digits)
6.000kΩ	0.001kΩ	±(0.8% + 5 Digits))
60.00kΩ	0.01kΩ	
600.0kΩ	0.1kΩ	
6.000MΩ	0.001MΩ	±(2.5% + 10 Digits))
60.00MΩ	0.01MΩ	

Buzzer<50Ω ; Protection against overcharge 1000V DC/ACrms

Frequency (Electronic Circuits) :

RANGE	RESOLUTION	ACCURACY
60.00Hz	0.01Hz	±(0.2% + 5 digits)
600.0Hz	0.1Hz	
6.000kHz	0.001kHz	
60.00kHz	0.01kHz	
600.0kHz	0.1kHz	
6.000MHz	0.001MHz	
10.00MHz	0.01MHz	

Protection against overcharge:1000VDC/ACrms
Sensitivity: >2Vrms (at 20%-80% duty cycle) and f<100kHz; >5Vrms (at 20%-80% duty cycle) and f>100kHz.

Function	Range	Resolution	Accuracy
Duty Cycle	10.0%-90.0%	0.1%	±(1.2%+8digits)

Pulse frequency range:40Hz-10kHz;
Pulse amplitude: ±5V(100us-100ms).

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
60.00nF	0.01nF	±(3.0% + 20 digits)
600.0nF	0.1nF	±(3.0% + 8 digits)
6.000μF	0.001μF	
60.00μF	0.01μF	
600.0μF	0.1μF	
6000μF	1μF	±(3.5% + 20 digits)
60.00mF	0.01mF	Unspecific
100.0mF	0.1mF	

Protection against overcharge: 100VDC/AC rms

Temperature with K-Type Probe

-40.0 to 600.0°C	0.1°C	±(1.5+ 3°C)
600 to 1000°C	1°C	
-40.0 to 600.0°F	0.1°F	±(1.5+ 5.4°F)
600 to 1800°F	1°F	
245.0 to 600.0K	0.1K	±(1.5+ 3K)
600 to 1273K	1K	

Protection against overcharge: 1000VDC/ACrms

DIODE Test	Test Current: <1.5mA	Max Voltage with Open Circuit: 3.3VDC
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ACCESSORIES:

Comes in a Hard Carrying Case with Battery Charging Adaptor and cable, Rechargeable Battery, K-type Thermocouple Probe Set, High-quality Test Leads, Flexible Clamp.

