



DT-3380/DT-3381

1000A TRUE RMS AC/DC CLAMP METER WITH 50,000 COUNTS MULTIMETER

Integrated Non Contact Voltage Detector and Dual Input Thermometer for K type thermocouple

To quickly check for the presence of live wires before testing plus True-RMS and 500A and 1000A Current Ranges.

The DT-3380 Series of Digital Clamp meters offers all the specifications required by any field engineer working on-site at incoming power site. These are very elegantly designed, perfectly fit into hand and can be used to access tight places for testing.

The large backlit LCD with high display count of 50,000 provides precise and accurate readings with details till the last digit. The bright backlit and bright flashlight in the clamp, makes it easier to use in dark areas.

These clamp meters confirm to CAT-III 1000V, CAT-IV 600V and are TUV & GS Approved. They confirm to EMC & LVD, EN:61326, EN:61010-1, EN:61010-02-031

The dual input thermometer with K type inputs for temperature, with differential temperature function, makes it all the more useful for all field use.

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FEATURES

- Full Function Digital Clamp Meter with Built-in 50,000 Count Multimeter
- True RMS for accurate readings of non-sinusoidal waveforms
- Dual Type K Thermocouple Input with Differential Temperature Function (T1, T2, T1-T2)
- Built-In Non-Contact Voltage Detector
- Flash Light in the Clamp Jaw to access dark and tight areas
- Data Hold Plus Peak Hold of Current Surges During Motor Startup
- 50,000 Count Multimeter Functions for AC/DC Voltage, Resistance, Capacitance, and Frequency for High Resolution Over Wider Ranges
- Measures Motor Capacitors to 5,000 μ F
- 49 mm (1.9") Jaw Opening for Conductors up to 500MCM
- Rugged Double Molded Housing
- Auto-ranging with Manual Override
- AC/DC μ A Multimeter Function for HVAC Flame Rod Current Measurements
- DC Current Function Ideal for Automotive, Heavy Equipment and Marine Applications (Available in DT-3381 only)
- Max/Min Record Functions and Relative Measurement functions.
- Low Battery Indicator and Auto Power Off
- Data Hold, Peak Hold, MAX/MIN record functions
- Auto Power Off after approx. 30 mins, and Disable function
- Over Range Indication
- Continuity Test for <50, Test Current < 0.5mA
- Diode Test
- Peak Detector > 1mS
- Fuse Protection
- AC Bandwidth 50 to 400Hz (AC A and AC V)
- Crest Factor: 3.0 in 40A and 400A range, 1.4 in 1000A range
- Operating Temperature: 5 to 40°C (41°F to 104°F)
- Storage Temperature: -20 to 60°C (-4°F to 140°F)
- Operating Humidity: Max 80% up to 31°C decreasing linearly to 50% at 40°C
- Storage Humidity < 80% RH
- Operating Altitude 7000 ft
- 9V Battery Operated
- Size: 230 x 76 x 40 mm / Weight: 315g.
- Safety: IEC 61010-1, CAT IV 600V, CAT III 600V, CE

SPECIFICATIONS

Function	Range	Resolution	Accuracy
DC Current (Only in DT-3381)	50A	0.01A	$\pm (2.5 \% \pm 5 \text{ Digits})$
	1000A	0.1A	

Function	Range	Resolution	Accuracy
AC Current True RMS (50 to 60Hz)	50A	0.01A	$\pm (2.5 \% \pm 5 \text{ Digits})$
	1000A	0.1A	

Function	Range	Resolution	Accuracy
AC μ A Current	500 μ A	0.01 μ A	$\pm (1.5 \% \pm 30 \text{ Digits})$
	5000 μ A	0.1 μ A	

Function	Range	Resolution	Accuracy
DC μ A Current	500 μ A	0.01 μ A	$\pm (1.0 \% \pm 6 \text{ Digits})$
	5000 μ A	0.1 μ A	

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Function	Range	Resolution	Accuracy
DC Voltage	500mV	0.01mV	± (1.0 % ± 8 Digits)
	5V	0.0001V	± (0.1 % ± 4 Digits)
	50V	0.001V	
	500V	0.01V	
	600V	0.1V	

Function	Range	Resolution	Accuracy
AC Voltage True RMS (50Hz to 1000Hz)	500mV	0.01mV	± (1.0 % ± 30 Digits)
	5V	0.0001V	
	50V	0.001V	
	500V	0.01V	
	600V	0.1V	

All AC Voltage Range are specified from 5% of range to 100% of range

Function	Range	Resolution	Accuracy
Resistance	500	0.01	± (1.0 % ± 9 Digits)
	5 K	0.0001 K	± (1.0 % ± 5 Digits)
	50 K	0.001 K	
	500 K	0.01 K	
	5 M	0.1 K	± (2.0 % ± 10 Digits)
	50 M	1 K	± (3.0 % ± 10 Digits)

Function	Range	Resolution	Accuracy
Capacitance	500nF	0.01nF	± (3.5 % ± 40 Digits)
	5000nF	0.1nF	± (3.5 % ± 10 Digits)
	50uF	0.01uF	
	500uF	0.1uF	
	5mF	0.001mF	± (5 % ± 10 Digits)

Function	Range	Resolution	Accuracy
Frequency	50Hz		± (0.3 % ± 2 Digits)
	500Hz		
	5kHz		
	50kHz		
	500kHz		
	5MHz		
	10MHz		

Function	Range	Resolution	Accuracy
Duty Cycle	5 to 95%	0.1%	± (1.0 % ± 2 Digits)

Pulse Width: 100uS - 100mS, Frequency: 10Hz to 10kHz

Function	Range	Resolution	Accuracy
Temperature (type-K) (probe accuracy not included)	-100 to 1000°C	0.1°C	± (1.0 % ± 2.5°C)
	-148 to 1832°F	0.1°F	± (1.0 % ± 4.5°F)

INCLUDED ACCESSORIES:

- Testing Leads
- Test Certificate
- Soft Carrying Case
- Instruction Manual
- Temperature Probe
- Battery

