



## DT-3351

### 1500A TRUE RMS AC/DC CLAMP METER + NCV

#### ***Integrated Non-Contact Voltage Detector***

*To quickly check for the presence of live wires before testing plus True RMS and 400A and 1500A current ranges*

DT-3350 Series of Clamp On Meter is a T-RMS 1500A AC / DC and can perform Power Measurements as well. It provides a very safe environment for high power measurements with double injection housing design. T-RMS AC/ DC Voltage and Current measurements makes it usable at all available loads. The combination of a 40,000 Counts Multimeter with these meters helps to measure right up to the last details. The Large Backlit LCD Display makes the instrument usable in dark environments. The meters confirm to EN 61010-1 CAT IV 600V / CAT III 1000V

#### **FEATURES**

- True RMS for accurate readings of non-sinusoidal waveforms
- Built-in non-contact Voltage detector with LED alert
- 2.0" (52mm) jaw size for conductors up to 500MCM
- Dual 40,000/4000 count, backlit LCD display
- Includes 40,000 Counts Digital Multimeter functions
- Inrush function captures transients during motor startups
- Relative Mode for Capacitance Zero and Offset Adjustment
- Data Hold, Peak Hold, MIN/MAX, and Auto Power Off
- **Low Battery Indication** : Battery symbol is displayed
- **Over-range Indication** : 'OL' display
- **Measurement Rate** : 2 readings per second, nominal
- **Peak Detector** : >1ms
- **Thermocouple Sensor** : Type K thermocouple required
- **Input Impedance** : 10M $\Omega$  (VDC and VAC)
- **AC Bandwidth** : 50 to 400Hz (AAC and VAC)
- **AC Response** : True rms (AAC and VAC)
- **Crest Factor** : 3.0 in 40A and 400A ranges, 1.4 in 1000A range (50/60Hz and 5% to 100% of range)

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## 1500A True RMS AC/DC Clamp Meter + NCV

- **Operating Temperature** : 5°C to 40°C (41°F to 104°F)
- **Storage Temperature** : -20°C to 60°C (-4°F to 140°F)
- **Operating Humidity** : Max 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F)
- **Storage Humidity** : <80%
- **Operating Altitude** : 7000ft. (2000meters) maximum.
- **Battery** : One (1) 9V Battery (NEDA 1604)
- **Auto power OFF** : After approx. 30 minutes
- **Dimensions & Weight** : 11.57x4.13x1.85" (294x105x47mm); 18.9 oz. (536g)
- **Safety** : For indoor use and in accordance with the requirements for double insulation to IEC1010-1 (2001): EN61010-1 (2001) Overvoltage Category III 600V and Category II 1000V, Pollution Degree 2.
- **Approvals** : CE

### SPECIFICATIONS

Function	Range	Resolution	Accuracy (% of reading)
DC Current	400.00 ADC	0.01A	± (2.5% +30digits)
	1500.0 ADC	0.1A	± (2.5% +30digits)

Function	Range	Resolution	Accuracy (% of reading)
AC Current True RMS (50Hz to 60 Hz)	400.00 AAC	0.01A	± (3% +50digits)
	1500.0 AAC	0.1A	± (3% +50digits)
All AC voltage ranges are specified from 5% of range to 100% of range			

Function	Range	Resolution	Accuracy (% of reading)
DC Voltage	400.00 mVDC	0.01mV	± (0.1% + 5 digits)
	4.0000VDC	0.0001V	± (0.1% + 4 digits)
	40.000 VDC	0.001V	
	1000.0 VDC	0.1V	± (0.5% + 4 digits)

Function	Range	Resolution	Accuracy (% of reading)
AC Voltage True RMS (50 Hz to 1000 Hz)	400.0 mVAC	0.1mV	± (0.8% + 40 digits) (50/60Hz)
	4.000 VAC	0.001V	± (1.0% + 30 digits)
	40.00 VAC	0.01V	
	750 VAC	1V	
All AC voltage ranges are specified from 5% of range to 100% of range			

Function	Range	Resolution	Accuracy (% of reading)
Resistance	400.00 Ω	0.01Ω	± (0.5% + 9 digits)
	4.0000KΩ	0.0001KΩ	± (1.0% + 4 digits)
	40.000KΩ	0.001KΩ	
	400.00KΩ	0.01KΩ	
	4.0000MΩ	0.0001MΩ	± (2.0% + 30 digits)
40.000MΩ	0.001MΩ	± (3.0% + 50 digits)	

Function	Range	Resolution	Accuracy (% of reading)
Capacitance	400.0nF	0.1nF	±(3.5% reading + 40digits)
	4000nF	1nF	±(3.5% reading + 10digits)
	40.00μF	0.01μF	
	400.0μF	0.1μF	
	4.000mF	0.001mF	±(3.5% reading + 20 digits)
40.00mF	0.01mF	±(5% reading + 30 digits)	

Function	Range	Resolution	Accuracy (% of reading)
Frequency	40.000 Hz	0.001Hz	±(0.3% reading + 2 digits)
	400.00 Hz	0.01Hz	Sensitivity: 10Vrms min.
	4.0000KHz	0.0001kHz	
	40.000KHz	0.001kHz	5kHz~15kHz :40Vrms min. @ 20% to 80% duty cycle
	400.00KHz	0.01kHz	
	4.0000MHz	0.0001MHz	
40.000MHz	0.001MHz		
Sensitivity: 0.8V rms min. @ 20% to 80% duty cycle and <100kHz; 5Vrms min @ 20% to 80% duty cycle and > 100kHz.			

Function	Range	Resolution	Accuracy (% of reading)
DC Current	10.0 to 95.0%	0.10%	±(0.5% reading + 2 digits)
	Pulse width: 100μs - 100ms, Frequency: 10Hz to 100kHz; Sensitivity:10Vrms min.		

Function	Range	Resolution	Accuracy (% of reading)
Temp (type-K) (probe accuracy not included)	-100.0 to 1000.0°C	0.1°C	±(1.0% reading + 2.5°C)
	-148.0 to 1832.0°F	0.1°F	±(1.0% reading + 4.5°F)
	(probe accuracy not included)		

**Continuity check** : Threshold 50Ω; Test current < 0.5mA  
**Diode test** : Test current of 0.3mA typical; Open circuit voltage [ 2.8VDC typical

### INCLUDED ACCESSORIES:

Instruction manual, test leads, general purpose Type K bead wire temperature probe, 9V battery, carrying case and Test Certificate