



DT-3353

DIGITAL T-RMS AC/DC CLAMP ON POWER METER

This is a 9999 counts Backlit LCD display, Digital T-RMS AC/DC clamp on power meter. It is used to measure power parameters like kW, kVA, power factor for three phase and single phase loads.

It has USB PC Interface for Data Collection and Storage. Has max /min Record Function, Data Hold Function, Data Logging facility, Non Contact Voltage Detector Function, Low Battery and Overload Indication.

Measures AC Current upto 1000A T-RMS, DC Voltage, Active Power, Apparent Power, Reactive Power, Power Factor, Phase Angle Active Energy. These can be done on three Phase and single Phase Location.

Temperature Measurement is also possible.

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Digital T-RMS Ac/Dc Clamp On Power Meter



Item	Description	Qty
1	English Operating Manual	1 piece
2	Red Test Lead	3 piece
3	Black Test Lead	1 piece
4	Red Alligator Clip	3 piece
5	Black Alligator Clip	1 piece
6	USB Interface Cable	1 piece
7	Software	1 piece
8	Tool Box	1 piece
9	9V Battery	1 piece
10	Test Certificate	1 piece

Safety Information

This Meter complies with the standards IEC61010: in pollution degree 2, overvoltage category (CAT. III 600V, CAT IV 300V) and double insulation.

CAT. III: Distribution level, fixed installation, with smaller transient overvoltages than CAT.IV: Primary supply level, overhead lines, cable systems etc.

CAT.IV: Primary supply level, overhead lines, cable systems etc.

General Specifications

Basic Functions	Range	Best Accuracy
AC Voltage	100V/400V/750V	±(1.2%+5digits)
AC Current	40A/100A/400A/1000A	±(2%+5 digits)
Active Power	0.01kW-750kW	±(3%+5 digits)
Apparent Power	0.01kVA-750kVA	±(3%+5 digits)
Reactive Power	0.01kVAR-750kVAR	±(4%+5 digits)
Power Factor	0.3~1(Capacitive or Inductive)	±(0.02+2 digits)
Phase Angle	0°~90°	±20
Frequency	50Hz-200Hz	✓
Active Energy	0.001~9999 kWh	±(3%+2 digits)
Temperature	-50°C~1300°C -58°F~2372°F	
Special Functions	Range	Best Accuracy
Auto Ranging		✓
Single-phase 2-wire		✓
Balance 3-phase 3-wire		✓
3-phase 4-wire		✓
True RMS	AC Voltage or Current	✓
Data Logging	99	✓
Data Recall		✓
Max/Min Mode		✓
Data Hold		✓
USB		✓
Display Backlight		✓
Full Icon Display		✓
Sleep Mode		✓
Low Battery Display		✓
Input Impedance for AC Voltage Measurement	Around 10MΩ	✓
Max. Display	9999	✓
Analogue Bar Graph		✓

Contact :

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Electrical Specifications

Accuracy: (a% reading + b digits), guarantee for 1 year.
 Operating temperature: 23±5
 Operating humidity: 45~75%R.H

A. AC Voltage (True RMS)

Range	Resolution	Accuracy	Allowable Maximum overload protection voltage	Input Impedance	Frequency Range
100V	0.1V	±(1.2%+5)	750 RMS	10M	50Hz~200Hz
400V					
750V					

B. Frequency

Range	Resolution	Accuracy
50Hz~200Hz	1Hz	±(0.5%+5)

C. AC Current (True RMS)

Range	Resolution	Accuracy	Allowable Maximum overload protection current	Frequency Range
40A	0.1A	±(2%+5)	1000A RMS	50Hz~60Hz
100A				
400A				
1000A	1A			

D. Active Power (W=V x A x COSθ)

Current / Voltage		Voltages Range		
		100V	400V	750V
Current Range	40A	4.00KW	16.00KW	30.00KW
	100A	10.00KW	40.00KW	75.00KW
	400A	40.00KW	160.0KW	300.0KW
	1000A	100.0KW	400.0KW	750.0KW
Accuracy		±(3%+5)		
Resolution		<1000KW: 0.01KW 100kW: 0.1KW		

E. Apparent Power (VA = V x A)

Current / Voltage		Voltages Range		
		100V	400V	750V
Current Range	40A	4.00KVA	16.00KVA	30.00KVA
	100A	10.00KVA	40.00KVA	75.00KVA
	400A	40.00KVA	160.0KVA	300.0KVA
	1000A	100.0KVA	400.0KVA	750.0KVA
Accuracy		±(3%+5)		
Resolution		<1000KVA: 0.01KVA 100kW: 0.1KVA		

F. Reactive Power (Var = V x A x SINθ)

Current / Voltage		Voltages Range		
		100V	400V	750V
Current Range	40A	4.00KVAr	16.00KVAr	30.00KVAr
	100A	10.00KVAr	40.00KVAr	75.00KVAr
	400A	40.00KVAr	160.0KVAr	300.0KVAr
	1000A	100.0KVAr	400.0KVAr	750.0KVAr
Accuracy		±(3%+5)		
Resolution		<1000KVAr: 0.01KVAr 100kW: 0.1KVAr		

G. Power Factor (PF = W / VA)

Range	Accuracy	Resolution	Measuring Condition
0.3 - 1 (capacitive or inductive)	±0.022	0.001	The minimum measuring current 10A The minimum measuring voltage 45V
0.3 - 1 (capacitive or inductive)	For reference only		Measuring current less than 10A OR Measuring voltage less than 45V

H. Phase Angle (PG=acos (PF))

Range	Accuracy	Resolution	Measuring Condition
0° - 90° (capacitive or inductive)	±2°	1°	The minimum measuring current 10A The minimum measuring voltage 45V
0° - 90° (capacitive or inductive)	For reference only		Measuring current less than 10A OR Measuring voltage less than 45V

I. Active Energy (kWh)

Range	Accuracy	Resolution
1~9999kWh	±(3%+2)	0.001kWh

Remarks:

- Allowable maximum overload protection voltage: 750V RMS
- Allowable maximum overload protection current: 1000A RMS

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