

Clamp-on Meters

TM-1017

400A True RMS AC Power Clamp Meter + Phase Rotation Tester

TENMARS



DISPLAY

- 4 digits with maximum reading 10000 counts.
- Backlight function.
- The "⊕" appears when the battery voltage drops is low.

FUNCTIONS

- Test Ranges: DCV, ACV, ACA, OHM, W, W3, HV, HA, PHASE SEQ, Audible continuity tests.
- Clamp Jaws opening: Max. 30 mm.
- Frequency with test leads and jaws up to 400 Hz.
- Active, Reactive, Apparent power on • Phase sequence with one wire.
- Single/Three phase systems. • Active, Reactive, Apparent energy on
- Single/Three phase systems.
- Power Factor, $\cos\phi$ on Single/Three phase systems.
- Harmonic voltage up to 25th with THD%.
- Harmonic current up to 25th with THD%.
- Continuity test. • Autorange. • Auto Power OFF.
- Data HOLD function. • MAX/MIN/AVG function.
- Fast PEAK function (1ms).

DCV	Range	Resolution	Accuracy	Input impedance
	0-599.9V	0.1V	$\pm(1.0\%rdg+3\text{ dgt})$	1M Ω

ACV (TRMS)	Range	Resolution	Accuracy		Input impedance
			40Hz~200Hz	200Hz~400Hz	
	1.6-599.9V	0.1V	$\pm(1.0\%rdg+3\text{dgt})$	$\pm(5.0\%rdg+3\text{dgt})$	1M Ω

Max. Crest factor=1.41

MAX/MIN/AVG PEAK ACV/DCV	Function	Range	Resolution	Accuracy	Response time
	MAX,MIN,AVG	10-599.9V	0.1V	$\pm(5.0\%rdg+10\text{dgt})$	500ms
PEAK	10-850V	1V	$\pm(5.0\%rdg+10\text{dgt})$	1ms	

ACA (TRMS)	Range	Resolution	Accuracy		Overload Protection
			40Hz-200Hz	200Hz-400Hz	
	0.0-399.9A	0.1A	$\pm(1.0\%rdg+3\text{dgt})$	$\pm(5.0\%rdg+5\text{dgt})$	600A RMS

MAX/MIN/AVG PEAK ACV/DCV	Function	Range	Resolution	Accuracy	Response time
	MAX,MIN,AVG	10-399.9V	0.1A	$\pm(5.0\%rdg+10\text{dgt})$	500ms
PEAK	10-800V	1A	$\pm(5.0\%rdg+10\text{dgt})$	15ms	

RESISTANCE & Continuity test	Range	Resolution	Accuracy	Overload Protection
	0.0-499.9 Ω	0.1	$\pm(1.0\%rdg+5\text{dgt})$	600V AC/DC RMS
	500-999.9 Ω	1 Ω		
1000-1999.9 Ω	3 Ω			

Instrument emits a buzzer for R<40 Ω

FREQUENCY (with test leads/ with jaws)	Range	Resolution	Accuracy	Overload Protection
	40.0-399.9Hz	0.1Hz	$\pm(0.5\%rdg+1\text{dgt})$	600V RMS/600A RMS

Voltage range for frequency measure, with test leads: 0.5~ 600V, with jaws: 0.5-400V

ACTIVE POWER, REACTIVE POWER, APPARENT POWER	Range [kW], [kVAR], [kVA]	Resolution [kW], [kVAR], [kVA]	Accuracy
	0.00-99.99	0.01	$\pm(3.5\%rdg+3\text{dgt})$
100.0-999.9	0.1		

Accuracy defined for: sine wave, voltage 230-400V, current \geq 1A, freq. 50-60Hz, PF: 0.8i-0.8c

POWER FACTOR	Range	Resolution	Accuracy
	0.2-1.00	0.01	$\pm 3^\circ$

Accuracy defined for: sine wave, voltage 230-400V, current \geq 2A, freq. 50-60Hz

Voltage & Current Harmonics	Range	Resolution	Accuracy
	1-15	0.1	$\pm(10.0\%rdg+5\text{dgt})$
16-25	0.1	$\pm(15.0\%rdg+5\text{dgt})$	

Accuracy defined for: voltage \geq 1.6V, current \geq 2A

Phase sequence & Phase coincidence	Range	Frequency range	Input impedance	Overload Protection
		50~600V	40~69Hz	1M Ω

ACCESSORIES

- User's manual
- Soft carrying case
- Couple of Test leads
- Battery x 2 pcs
- Rubber holder for test leads

POWER SUPPLY

- 2 x 1.5V IEC R03 AAA carbon-zinc or alkaline type batteries
- Auto Power OFF function

OPERATION CONDITION

- Operating Temperature & Humidity: 5 $^\circ$ C ~ 40 $^\circ$ C, below 80%RH.
- Storage Temperature & Humidity: -10 $^\circ$ C ~ 60 $^\circ$ C, below 70%RH.

DIMENSION

- Size: 205 (H) x 64 (W) x 39 (L) mm
- Weight: about 280g (including battery)