

Clamp-on Meters

TENMARS

TM-13E AC/DC Clamp-on Meter

is designed and built for use in an environment of pollution degree 2 according to IEC6 1010-1 and IEC6 1010-2-032 CAT III 600V, also in comply to UL 3111-1, 3111-2-032, C22.2 NO.1010.1-92 optional standard.



DISPLAY

- 3 3/4 digits LCD with maximum reading 3999, Plus decimal point, unit symbol indication.
- Polarity indication: Automatic polarity, "-" display for negative input.
- Overload indication: LCD will show "OL" in the up left position.
- Low battery indication: Replace battery when LCD display "BATT".

FUNCTIONS

- Auto range, Auto power off (30 minutes)
- High speed bargraph
- Function keys: Data Hold, Range Hold, ZERO.
- Test ranges: ACV, ACA, DCA, DCV, Ω , Continuity.
- The maximum conductor size is 30mm
- Continuity test is designed buzzer sound when impedance in objective's circuit below 40 Ω

SAMPLING SPEED

- Sampling Rate: 2 times per second for digital display.
- 20 times per second for analog display

SPECIFICATIONS

Accuracy: \pm (.....%rdg.....dgt) at 23°C \pm 5°C, below 80% RH.

	Range	Resolution	Accuracy 50Hz~500Hz	Input impedance	Overload protection
ACV (Auto/Manual)	400mV	0.1mV	\pm (1.0%+50)	100M Ω	DC/AC 660V rms
	4V	1mV		11M Ω	
	40V	10mV	\pm (1.0%+3)	10M Ω	
	400V	100mV			
	600V	1V			

	Range	Resolution	Accuracy 50Hz~60Hz	Overload protection
ACA (Auto/Manual)	40A	0.01A	\pm (2.0%+10)	600A rms (60 Seconds)
	400A	0.1A		

	Range	Resolution	Accuracy	Input impedance	Overload protection
DCV (Auto/Manual)	400mV	0.1mV	\pm (0.8%+2)	100M Ω	DC/AC 660V rms
	4V	1mV		11M Ω	
	40V	10mV		10M Ω	
	400V	100mV			
	600V	1V	\pm (1.0%+2)		

	Range	Resolution	Accuracy	Overload protection
DCA (Auto/Manual)	40A	0.01A	\pm (2.5%+10)	600A rms (60 Seconds)
	400A	0.1A		

	Range	Buzzer	Max.open voltage	Overload protection
Continuity	" "	Below 40 Ω	About -1.5VDC	600V rms

	Range	Resolution	Accuracy	Max. open voltage	Overload protection
Resistance (Auto/Manual)	400 Ω	0.1 Ω	\pm (1%+5)	About -0.45Vdc	DC/AC 660V rms (60 Seconds)
	4K Ω	1 Ω			
	40K Ω	10 Ω	\pm (1%+3)		
	400K Ω	100 Ω			
	4M Ω	1K Ω			
	40M Ω	10 Ω	\pm (3%+3)		

ACCESSORIES

- User's manual
- Test leads
- 1.5V battery x 2pcs

POWER SUPPLY

- Battery type: R03 (AB)/SIZE AAA 1.5V/ UM4 x 2pcs.
- Battery life: 50 hours approx. (alkaline battery recommended)

OPERATION CONDITION

- Operating temperature & humidity: 5°C~40°C, below 80% RH.
- Storage temperature & humidity: -10°C ~ 60°C, below 70% RH.

DIMENSION

- Size: 195 x 64 x 30mm (L x W x H)
- Weight: About 240g (including battery)