

# TM-24E and TM-25E (Trms) AC/DC Clamp-on Meter

are designed and built for being used in an environment of pollution degree 2 according to IEC 1010-1 CAT II 1000V, IEC 1010-1 CAT III 600V and IEC1010-2-032 CAT III 600V.



## FUNCTIONS

- TM-25E with True RMS measurements
- Test ranges: ACV, ACA, DCV, DCA,  $\Omega$ , Frequency, Diode Test, Continuity.
- Function keys: Data Hold, Max. Hold (TM-24E), Peak Hold (TM-25E).
- The maximum conductor size is 35mm.

## ACCESSORIES

- User's manual • Carrying case
- Test leads • 9V battery x 1pc

## POWER SUPPLY

- Battery type: 9V NEDA 1604, IEC 6F22, JIS 006P x 1pc.
- Battery life for TM-24E: About 200 hours.
- Battery life for TM-25E: About 100 hours.

## OPERATION CONDITION

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

## DIMENSION

- Size : 218 x 75 x 43 mm (L x W x H)
- Weight : About 360g (including battery)

## DISPLAY

- 3 1/2 digits LCD with max. reading 1999, plus decimal point, unit symbol indication.
- Overload indication: LCD will show "1" in the left highest position.
- Low battery indication: Replace battery immediately when LCD displays " ㊄ ".

## SAMPLING SPEED

- Sampling rate: 2 times per second for digital display.

## SPECIFICATIONS

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

ACV (TM-24E)	Range	Resolution	Accuracy 40Hz~500Hz $\pm$ (1.2%+5)	Overload protection 600V rms
	200V	0.1V		
600V	1V			

TRUE RMS: From 10% to 100% of range

ACV (TM-25E)	Range	Resolution	Accuracy		Overload protection 600V rms
	200V	0.1V	40Hz~400Hz	400Hz~2KHz	
600V	1V	$\pm$ (1.2%+5)	$\pm$ (2.0%+5)		

1mS PEAK HOLD

Voltage (TM-25E)	Range	Resolution	Accuracy	Overload protection 600V rms
	200V	0.1V	$\pm$ (1.5%+15)	
600V	1V	$\pm$ (2.5%+15)		

ACA (TM-24E)	Range	Resolution	Accuracy 40Hz~65Hz	Overload protection 800A rms (60 seconds)
	200 <sup>A</sup>	0.1A	$\pm$ (2.0%+5)	
600 <sup>A</sup>	1A			

TRUE RMS: From 10% to 100% of range

ACA (TM-25E)	Range	Resolution	Accuracy		Overload protection 800A rms (60 seconds)
	200 <sup>A</sup>	0.1 <sup>A</sup>	40Hz~65Hz	65Hz~1KHz	
600 <sup>A</sup>	1 <sup>A</sup>	$\pm$ (2.0%+5)	$\pm$ (3.0%+8)		

1 mS PEAK HOLD

Current (TM-25E)	Range	Resolution	Accuracy	Overload protection 600V rms
	200 <sup>A</sup>	0.1A	$\pm$ (1.5%+15)	
600 <sup>A</sup>	1A	$\pm$ (2.5%+15)		

DCV	Range	Resolution	Accuracy	Overload protection 600V rms
	200V	0.1V	$\pm$ (1.0%+3)	
600V	1V			

DCA	Range	Resolution	Accuracy	Overload protection 800A rms (60 seconds)
	200A	0.1A	$\pm$ (1.5%+5)	
600A	1A	$\pm$ (2.0%+5)		

Resistance $\Omega$	Range	Resolution	Accuracy	Max. open voltage	Overload protection 550V rms
	2K $\Omega$	1 $\Omega$	$\pm$ (1.0%+3)	0.4Vdc	
200K $\Omega$	0.1K $\Omega$				

Continuity test	Range	Resolution	Accuracy	Test voltage	Overload protection 550V rms
	∞	1mV	$\pm$ (1.0%+2)	<3.3V	

\*Also with buzz function for continuity purpose, buzz will sound when the measured resistance is below 40 $\Omega$

Diode test	Range	Resolution	Test voltage	Overload protection 550V rms
	→	1mV	<3.3V	

Frequency (Auto-range)	Range	Resolution	Accuracy $\pm$ (0.5%+3)	Max. sensitivity 1.5V rms	Overload protection 550V rms
	2KHz	1Hz			
	20KHz	10Hz			
200KHz	100Hz				