

TECPEL®

TES-3910 TRMS AC/DC CLAMP METER (1000A)



- Capacitance measurement up to 1000 μ F.
- Voltage and frequency measurement for Variable Frequency Drives (VFD).
- Low Impedance (LoZ) voltage measurement to eliminate stray voltage.
- 3-phase sequence detection.
- Motor inrush current measurement.
- True RMS measurement.
- Current measurement for fire safety devices.
- External accessory support for mV range.
- Peak factor and harmonic ratio measurement.
- Reading lock, auto lock, and peak hold modes.
- Maximum and minimum value recording mode.
- Data memory and recall functions.

Specifications

AC Current (40Hz to 400Hz): VFD Trms

Range	Res.	Accuracy	Sens.	Overload Prot.
99.99A	10mA	$\pm 2\% \pm 20$ dgts (50, 60Hz) $\pm 4\% \pm 20$ dgts (40~400Hz)	>0.25 A	1000A AC
999.9A	100mA		>2.5 A	

DC Current

Range	Res.	Accuracy	Sens.	Overload Prot.
99.99A	10mA	$\pm 2\% \pm 20$ dgts	>0.25 A	1000A
999.9A	100mA		>2.5 A	

Motor Inrush Current: VFD Trms

Range	Res.	Sens	Time	Overload Prot.
99.99A	0.01A	>5 A	100ms	1000A AC

999.9A 0.1A >50A

DCmA (Load Voltage Drop: 3.6mV/μA)

Range	Res.	Accuracy	Sens.	Overload Prot.
99.99mA	10nA	±1% ±20dgts	>0.30μA	1000V
999.9mA	100nA		>3.0μA	

ACmA: VFD Trms (Load Voltage Drop: 3.6mV/μA)

Range	Res.	Accuracy	Sens.	Overload Prot.
99.99mA	10nA	±1% ±10dgts (50, 60Hz) ±2% ±10dgts (40~400Hz)	>0.30μA	1000V
999.9mA	100nA		>3.0μA	

AC Voltage (40Hz to 400Hz): VFD Trms

Range	Res.	Accuracy	Sens.	Overload Prot.
999.9mV	0.1mV	±1% ±10dgts (50, 60Hz) ±2% ±10dgts (40~400Hz)	>2mV	1000V
9.999V	1mV		>20mV	
99.99V	10mV		>200mV	
999.9V	100mV		>2V	

DC Voltage

Range	Res.	Accuracy	Sens.	Overload Prot.
999.9mV	0.1mV	±1% ±20dgts	>2mV	1000V
9.999V	1mV		>20mV	
99.99V	10mV		>200mV	
999.9V	100mV		>2V	

Resistance (Continuity <40Ω)

Range	Res.	Accuracy	Overload Prot.
999.9Ω	100mΩ	±1% ±10dgts	1000V
9.999KΩ	1Ω		
99.99KΩ	10Ω		
999.9KΩ	100Ω		

3-Phase Sequence Indicator

Range	Freq. Resp.	Overload Prot.
80V~480V	50Hz / 60Hz	1000V

Diode (Continuity <40mV)

Range	Res.	Accuracy	Overload Prot.
3.000V	1mV	±1% ±10dgts	1000V

Frequency

Range	Res.	Accuracy	Sens.
40Hz~1KHz	0.1Hz	±0.5% rdg ±2dgts	V > 5%
			mA, A >30%

Capacitance (mF)

Range	Res.	Accuracy	Overload Prot.
1.000mF	1nF	±1.5% ±5dgts	1000V
10.00mF	10nF		
100.0mF	100nF		
1000mF	1mF		

General Specifications

- **Accessories:** Manual, 9V battery, pouch, test leads
- **Dimensions & Weight:** 236mm × 80mm × 39mm / 332g
- **Max Conductor Diameter:** 33mm
- **Safety Rating:** CAT III 1000V, CAT IV 600V