

TES



PROVA A1/A3 DC/AC Clamp Meter

Features

- High Resolution DC/AC 10mA (6000 counts)
- 25 mm Large Jaw Diameter
- DC/AC Current 60/400A
- DC/AC Voltage 60/600V
- A1: AC True RMS, A3: Average Sensing
- One Touch Zero for DCA adjustment
- Resistance, Continuity, Capacitance and Temperature(°C, °F)
- Auto Range (V, A, Ω , Hz)
- Non-contact (A) and Contact (V) Frequency Measurement
- Max Hold, Peak Hold and Delta (Δ) Functions
- Dual Display Hold + Average, Max + Min, Δ Max + Δ Min
- Dual Display Peak Max + Peak Min, Δ Peak Max + Δ Peak Min
- Auto Power Off (30 minutes), Backlight
- On-Line Automotive Battery and Alternator Testing
Min Battery Cranking Voltage and Max Alternator Charging Voltage
- Low Pass Filter (LPF, 1KHz) (for VFD Measurement)



CE

EN 61010

CAT III 600V, CAT IV 300V



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PROVA A1/A3 DC/AC Clamp Meter

Specifications (23°C ± 5°C)

DC Current

Range	Resolution	Accuracy	Overload Protection
60 A	10mA	±1.5%±2dgts	DC 400A
0-150 A	100mA	±1.5%±2dgts	
150-200 A	100mA	±2.2%±2dgts	
200-400A	100mA	±4%±2dgts	

Peak: MAX ±400A, Accuracy + additional ±2%±30dgts

AC Current (TRMS for Model A1, Average Sensing for model A3)

Range	Resolution	Accuracy		Overload Protection
		50/60 Hz	40 - 500 Hz	
60A	10mA	±1.5%±3dgts	±2.0%±4dgts	AC 400A
0-150A	100mA	±1.5%±3dgts	±2.0%±4dgts	
150-200A	100mA	±2.2%±3dgts	±2.5%±4dgts	
200-400A	100mA	±4%±3dgts	±5%±4dgts	

Peak: MAX ±400A, Accuracy + additional ±2%±30dgts

LPF @1KHz -3db

DC Voltage (Overload Protection 600V)

Range	Resolution	Accuracy	Input Impedance
60V	10 mV	±1.5%±3dgts	10MΩ
600V	100 mV		

Peak: MAX ±600V, Accuracy + additional ±2%±30dgts

AC Voltage (TRMS for Model A1, Average Sensing for model A3)

(Input Impedance 10 MΩ)

Range	Resolution	Accuracy		Overload Protection
		50/60 Hz	40 - 1KHz	
60V	10mV	±1.5%±5dgts	±2.0%±5dgts	AC 600V
600V	100mV			

Peak: MAX ±850V, Accuracy + additional ±2%±30dgts

LPF @1KHz -3db

Continuity (Open voltage 0.4V, Overload protection AC 600V)

Range	Resolution	Accuracy	Beeping
60-600Ω	0.1Ω	±1.0%±2dgts	<30.0Ω(approx.)

Resistance (Ω) (Open voltage 0.4V)

Range	Resolution	Accuracy	Overload Protection
600Ω	0.1Ω	±1.5%±2dgts	AC 600V
6KΩ	1Ω		
60KΩ	10Ω		
600KΩ	100Ω		

Frequency

Range (Hz)	Resolution (Hz)	Accuracy	Sensitivity	Overload Protection
3-99.99	0.01	±0.5%±0.02	1V/10V	AC 600V
100.0~999.9	0.1	±0.5%±0.2		
1.000K-9.999K	10	±0.5%±20	0.5A/5A	AC 400A
10.00K-99.99K	1.2K	±0.5%±2.4K		
100.0K-200.0K	5K	±0.5%±10K		

Temperature (For using K-type thermocouples, °C or °F)

Range	Resolution	Accuracy	Overload Protection
-40 - 0°C	0.1°C	±2.0%±2°C	AC 300V
0 - 400°C		±0.5%±2°C	
-40 - 32°F	0.1°F	±2%±3.6°F	
32 - 752°F		±0.5%±3.6°F	

Capacitance

Range	Resolution	Accuracy	Overload Protection
600nF	0.1nF	±3.0%±0.2nF	AC 600V
6μ	1nF	±3.0%±0.02μF	
60μF	10nF	±3.0%±0.02μF	
600μF	100nF	±3.0%±0.2μF	
6000μF	1μF	±3.0%±5μF	

Diode Test

Range	Resolution	Accuracy	Overload Protection
0 - 1.999V	0.001V	±2.5%±5dgts	AC 600V

Conductor Size	25mm max. (approx.)
Battery Type	two 1.5V SUM-3
Range Selection	Manual, Auto
Power Consumption	17 mA (approx.)
Sampling Time	2 times/sec.
Operating Temperature	0°C to 50°C
Operating Humidity	less than 85% relative
Dimension	190mm (L) x 66mm (W) x 36mm (H) 7.5" (L) x 2.6" (W) x 1.45" (H)
Weight	250g (battery included)
Accessories	Carrying bag x 1 Users manual x 1 1.5V battery x 2 Test leads x 1 K-type thermocouples x 1

<http://www.tes.com.tw>

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Oct. 3, 2016