PROVA A1/A3

DC/AC Clamp Meter

CE CAT III 600V, CAT IV 300V

Features:

1. **High resolution** DC/AC 10 mA current measurement (<60A range).
2. DC/AC current measurement: **60/400A**.
3. DC/AC voltage measurement: **60/600V**.
4. AC current measurement: **TRMS (model A1)**.
5. AC current measurement: **Average Sensing (model A3)**.
6. **Resistance, Continuity, Capacitance** and **Temperature** (℃/℉) measurement.
7. Non-contact (A) and Contact (V) **Frequency** measurement.
8. Voltage/Current **Peak value** measurement.
9. **Auto range:** V, A, Resistance, Capacitance and Temperature.
10. **One Touch Zero** for DCA adjustment.
11. **25mm** large jaw diameter.
12. Auto-power-off function (30 min.).
13. With **backlight**.
14. Max Hold, Peak Hold and Delta (Δ) functions.
15. **Dual display:** Hold + Average, Max + Min, ΔMax + ΔMin.
16. **Dual display:** Peak Max + Peak Min, ΔPeak Max + ΔPeak Min.
17. On-line automotive battery and alternator testing Min battery cranking voltage and Max alternator charging voltage.
18. **Low Pass Filter** (LPF, 1KHz) (for VFD measurement).
19. **600V overload protection** for ohm and measurement.
20. Ideal for works in crowded switch box or cable areas.
21. **Applications:**
    (1) Troubleshooting in
        i. Automotive Maintenance
        ii. electric vehicle
        iii. plant maintenance

iv. HVAC

v. telecom works

vi. marine

vii. motorcycle repairs

(2) DC charging current of batteries of electric vehicles.

(3) DC current consumption of DC motors of Drones.

(4) DC current output of solar panels.

(5) Measurements of voltage, current, and frequency of inverters (VFD).

(6) Temperature measurements of abnormal components.

Electrical Specifications: (23℃±5℃)

DC Current

Range	Resolution	Accuracy	Overload Protection
60 A	10mA	±1.5%±2dgts	DC 400A
0-150 A	100mA	±1.5%±2dgts	
150-300 A	100mA	±2.2%±2dgts	
300-400 A	100mA	±4%±2dgts	

DCA Peak MAX ±400A Accuracy + (±2%±50dgts)

AC Current (A1: True RMS, A3: Average Sensing)

Range	Resolution	Accuracy		Overload Protection
		50/60 Hz	40 - 500Hz	
60A	10mA	±1.5%±3dgts	±2.0%±4dgts	AC 400A
0-150A	100mA	±1.5%±3dgts	±2.0%±4dgts	
150-300A	100mA	±2.2%±3dgts	±2.5%±4dgts	
300-400A	100mA	4%±3dgts	5%±4dgts	

ACA Peak MAX ±400A Accuracy + (2%±50dgts)

LPF @1KHz -3db

DC Voltage (Overload Protection 600V)

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

DCV Peak MAX ±600V Accuracy + (±2%±50dgts)

AC Voltage (A1: True RMS, A3: Average Sensing) (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			

ACV Peak MAX ±850V Accuracy + (±2%±50dgts)

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 (auto range)

Range (Hz)	Resolution (Hz)	Accuracy	Sensi-tivity	Overload Protection
4-99.99	0.01	±0.5%±0.02	V:3V/10V A:1A/5A	AC 600V AC400A
100.0~999.9	0.1	±0.5%±0.2	V:2V/10V A:1A/5A	
1.000K-9.999K	10	±0.5%±20	V:2V/10V A:1A/5A	
10.00K-99.99K	1.2K	±0.5%±2.4K	V:2V/10V A:1A/5A	
100.0K-200.0K	5K	±0.5%±10K	V:2V/10V A:1A/5A	

Temperature (for using K-Type thermocouples, ℃ or ℉)

Range	Resolution	Accuracy	Overload Protection
-40 – 0 ℃	0.1 ℃	±2.0%±2 ℃	AC 300V
0 – 400 ℃	0.1 ℃	±0.5%±2 ℃	
-40 – 32 ℉	0.1 ℉	±2%±3.6 ℉	
32 – 752 ℉	0.1 ℉	±0.5%±3.6℉	

Diode Test

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

Capacitance

Range	Resolution	Accuracy	Overload Protection
600nF	0.1nF	±2.0%±0.2 nF	AC 600V
6 μF	1nF	±2.0%±0.02 μF	
60 μF	10nF	±2.0%±0.02 μF	
600 μF	100nF	±2.0%±0.2 μF	
6000 μF	1 μF	±2.5%±5 μF	

General Specifications: Indoor Use

Conductor Size: 25mm max. (approx.)
Battery Type: two 1.5V SUM-3
Display: 6000 counts
Range Selection: Auto and Manual
Overload Indication: OL
Power Consumption: 17 mA (approx.)
Low battery Indication: 
Sampling Time: 2 times/sec.
Auto-power-off: 30 minutes
Operating Temperature: 0◦C to 50◦C
Operating Humidity: less than 85% relative
Altitude: up to 2000M
Storage Temperature: -20◦C to 60◦C
Storage Humidity: less than 75% 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
Adapter (for Capacitance and K-type thermocouples) x 1

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