

# PROVA A1

## AC/DC Clamp Meter (TRMS)

CE

IEC 61010

CAT III 600V CAT IV 300V

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Tehran, Tehransar

### Features:

1. Best resolution of AC/DC current measurement: **10mA**.
2. AC/DC current measurement: **400A**.
3. AC/DC voltage measurement: **600V**.
4. AC current measurement: **TRMS**.
5. **Resistance, Continuity, Capacitance and Temperature** ( $^{\circ}\text{C}/^{\circ}\text{F}$ ) measurement.
6. Non-contact (A) and Contact (V) **Frequency** measurement.
7. Voltage/Current **Peak value** measurement.
8. **Auto range:** V, A, Resistance, Capacitance and Temperature.
9. **Auto and Manual** ranges.
10. **6000 counts**.
11. **One Touch Zero** for DCA adjustment.
12. **25mm** large jaw diameter.
13. **Auto-power-off** function (30 min.).
14. With **backlight**.
15. Max Hold, Peak Hold and **Delta** ( $\Delta$ ) functions.
16. **Dual display:** Hold + Ave, MAX + MIN,  $\Delta$ MAX +  $\Delta$ MIN.
17. **Dual display:** Hold + Ave, Peak Max + Peak Min,  $\Delta$ Peak Max +  $\Delta$ Peak Min.
18. On-line automotive battery and alternator testing Min battery cranking voltage and Max alternator charging voltage.
19. **Low Pass Filter** (LPF, 1KHz, -3dB) (e.g. for VFD measurement).
20. **600V overload protection** for **Resistance** ( $\Omega$ ) and **Capacitance** measurement.
21. Ideal for works in crowded switch box or cable areas.

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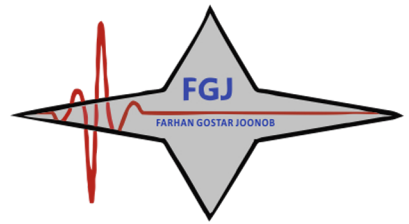
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## 22. Applications:

### (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.

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## Electrical 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	
150-300 A	100mA	±2.2%±2dgts	
300-400 A	100mA	±4%±2dgts	

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

### AC Current (True RMS)

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 + additional ±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 + additional ±2%±50dgts

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**AC Voltage** (True RMS, 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 + additional ±2%±50dgts

LPF @1KHz -3db

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

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

**Resistance (Ω)** (Open voltage 0.4V)

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

**Frequency (Auto range)**

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

**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	0.1 °C	±0.5%±2 °C	
-40 – 32 °F	0.1 °F	±2%±3.6 °F	
32 – 752 °F	0.1 °F	±0.5%±3.6 °F	

**Diode Test**

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

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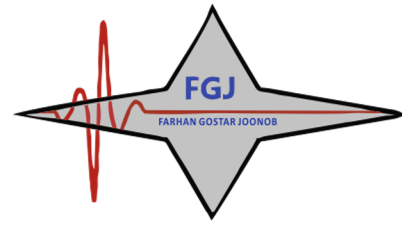
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## Capacitance

Range	Resolution	Accuracy	Overload Protection
600nF	0.1nF	$\pm 2.0\% \pm 0.2 \text{ nF}$	AC 600V
6 $\mu$ F	1nF	$\pm 2.0\% \pm 0.02 \mu \text{ F}$	
60 $\mu$ F	10nF	$\pm 2.0\% \pm 0.02 \mu \text{ F}$	
600 $\mu$ F	100nF	$\pm 2.0\% \pm 0.2 \mu \text{ F}$	
6000 $\mu$ F	1 $\mu$ F	$\pm 2.5\% \pm 5 \mu \text{ F}$	

## General Specifications: Indoor Use

<b>Conductor Size:</b>	25mm max. (approx.)
<b>Battery Type:</b>	two 1.5V SUM-3
<b>Display:</b>	6000 counts
<b>Range Selection:</b>	Auto and Manual
<b>Overload Indication:</b>	OL
<b>Power Consumption:</b>	17 mA (approx.)
<b>Low battery Indication:</b>	<input type="checkbox"/> B
<b>Sampling Time:</b>	2 times/sec.
<b>Auto-power-off:</b>	30 minutes
<b>Operating Temperature:</b>	0°C to 50°C
<b>Operating Humidity:</b>	less than 85% relative
<b>Altitude:</b>	up to 2000M
<b>Storage Temperature:</b>	-20°C to 60°C
<b>Storage Humidity:</b>	less than 75% relative
<b>Dimension:</b>	190mm (L) x 66mm (W) x 36mm (H) 7.5" (L) x 2.6" (W) x 1.45" (H)
<b>Weight:</b>	250g (battery included)
<b>Accessories:</b>	Carrying bag x 1 Users manual x 1 1.5V battery x 2 Test leads x 1 K-type thermocouples x 1 Adaptor (for Capacitance and K-type thermocouples) x 1

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