

# PROVA A9

## AC/DC TRMS Mini Clamp Meter

CE

IEC 61010

CAT III 600V CAT IV 300V

### Features:

1. Accurate AC/DC digital clamp meter
2. Best accuracy  $\pm 1.5\% \pm 3$ dgts
3. AC 1mA, DC 10mA high resolution
4. True RMS measurement
5. One touch zero ( $\Delta$ ) for DCA adjustment
6. 25 mm diameter jaws
7. Fast bar graph display (30 times/sec.) for transient observation
8. In-Rush Current Measurement with 100mS integration time
9. Non-Contact Frequency Measurement (min. sensitivity 0.06 AC A)
10. Non-Contact Voltage (NCV) Detection from 80V to 600V at 50/60Hz
11. Low Pass Filter (LPF) at 1 KHz Cut-off Frequency
12. Large 3 3/4 digits LCD
13. Data Hold function
14. 15 minutes auto-power-off with beeping warning before turning off
15. Backlight with 5 minutes of auto-backlight-off
16. Easy single rotary switch for any function selection
17. Ideal for works in crowded switch box or cable areas

### Electrical Specifications:

( $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , Accuracy is indicated as % of reading, and the conductor is placed at the center of jaws)

#### DC Current (% of reading)

Range	Resolution	Accuracy	Overload Protection
40A	10mA	$\pm 1.5\% \pm 3$ dgts	DC 500A
400A (0-150A)	100mA	$\pm 1.5\% \pm 3$ dgts	
400A (150-200A)		$\pm 2.2\% \pm 3$ dgts	
400A (200-300A)		$\pm 4.0\% \pm 3$ dgts	
400A (300-400A)		$\pm 7.0\% \pm 3$ dgts	

**AC Current (True RMS, Crest Factor  $\leq 3$ , % of reading)**

Range	Resolution	Accuracy <sup>2</sup>		Overload Protection
		50/60 Hz	40 - 400Hz	
4A (5mA-4A) <sup>1</sup>	1mA	$\pm 1.5\% \pm 3\text{dgts}$	$\pm 2.0\% \pm 4\text{dgts}$	AC 500A
40A	10mA	$\pm 1.5\% \pm 3\text{dgts}$	$\pm 2.0\% \pm 4\text{dgts}$	
400A (0-150A)	100mA	$\pm 1.5\% \pm 3\text{dgts}$	$\pm 2.0\% \pm 4\text{dgts}$	
400A (150-200A)	100mA	$\pm 2.2\% \pm 3\text{dgts}$	$\pm 3.0\% \pm 4\text{dgts}$	
400A (200-300A)	100mA	$\pm 5.0\% \pm 3\text{dgts}$	$\pm 5.5\% \pm 4\text{dgts}$	
400A (300-400A)	100mA	$\pm 8.0\% \pm 3\text{dgts}$	$\pm 8.5\% \pm 4\text{dgts}$	

<sup>1</sup>In the 4A range, there is a residual of 3 digits (3mA) remaining with no current input

<sup>2</sup>Add 2% when C.F.  $\geq 2$

**Frequency (auto range, periodic and zero crossing signal)**

Range	Range (Hz)	Resolution (Hz)	Sensitivity	Accuracy
4A	0 – 4K	0.1/1	0.06A	$\pm 0.5\% \pm 2\text{dgts}$
4A	4K – 40K	0.1/1/10	0.20A	
40A	0 – 4K	0.1/1	0.8A	
400A	0 – 4K	0.1/1	4A	

Overload protection all range AC 500A

**In-Rush Current (AC, start from 0A, Integration Time 100mS)**

Range	Trigger Current (threshold)
0-4A	0.2A
40A	2A
400A	20A

**AC Low Pass Filter (LPF, Cut-off frequency (-3db) 1 KHz (approx.))**

Range	Resolution	Accuracy (of reading, 50/60Hz)
0-10mA (4A)	0.001	$3\% \pm 7\text{dgts}$
10mA-4A (4A)	0.001	$3\% \pm 5\text{dgts}$
40A	0.01	$3\% \pm 5\text{dgts}$
0-200A (400A)	0.1	$3\% \pm 5\text{dgts}$
200-300A (400A)	0.1	$5.5\% \pm 5\text{dgts}$
300-400A (400A)	0.1	$8.5\% \pm 5\text{dgts}$


## Non-Contact Voltage Detection

Range	Frequency
80 to 600V (one segment of bar - to four segments of bars - - - - )	50/60Hz

Audible beep tones proportional to field strength.

Detection antenna: inside the stationary jaw.

## General Specifications: Indoor Use

<b>Conductor Size:</b>	0.98" / 25mm max. (approx.)
<b>Battery Type:</b>	two 1.5V LR03 AAA size
<b>Display:</b>	3 3/4 LCD with 20 segments Bar-graph
<b>Range Selection:</b>	Manual
<b>Overload Indication:</b>	OL
<b>Power Consumption:</b>	22mA with backlight off (approx.)
<b>Low battery Indication:</b>	
<b>Sampling Time:</b>	3 times/sec. (digits), 30 times/sec. (bargraph)
<b>Operating Temperature:</b>	-10°C to 50°C
<b>Operating Humidity:</b>	less than 85% relative
<b>Storage Temperature:</b>	-20°C to 60°C
<b>Storage Humidity:</b>	less than 75% relative
<b>Altitude</b>	up to 2000M
<b>Dimension:</b>	152mm (L) x 66mm (W) x 36mm (H) 6.0" (L) x 2.6" (W) x 1.4" (H)
<b>Weight:</b>	190g (battery included)
<b>Accessories:</b>	Carrying bag x 1 Users manual x 1 1.5V AAA battery x 2

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