



# PROVA 6830 + PROVA 6802

## Power and Harmonics Analyzer (1000A)

**Electrical Specifications: (23°C±5°C)**

### AC Watt

Range	Resolution	Accuracy of Readings
5.0 – 999.9 W	0.1W	±1% ± 0.8W
1.000 – 9.999 KW	0.001 KW	±1% ± 8W
10.00 – 99.99 KW	0.01 KW	±1% ± 80W
100.0 – 999.9 KW	0.1 KW	±1% ± 0.8KW
1000 – 9999 KW	1 KW	±1% ± 8KW
0.000 – 9.999MW	0.001MW	±1% ± 80KW

### AC Current

(Overload Protection AC 2000A)

Range	Resolution	Accuracy of Readings
10.00A	0.001A/0.01A	–
4A - 100.0A	0.01A/0.1A	±0.5% ± 0.5A
40A – 1000.0 A	0.1A/1 A	±0.5% ± 5A

### AC Voltage

(Overload Protection AC 800V)

Range	Resolution	Accuracy of Readings
20.0 V – 500.0 V (Phase to Neutral)	0.1 V	±0.5% ± 5dpts
20.0 V – 600.0 V (Phase to Phase)		±0.5% ± 5dpts

### Harmonics of AC Voltage in Percentage

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	±2%
21 – 49 <sup>th</sup>		±4% of reading ± 2.0%
50 – 99 <sup>th</sup>		±6% of reading ± 2.0%

### Harmonics of AC Voltage in Magnitude

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1V	±2% ± 0.5V
21 – 49 <sup>th</sup>		±4% of reading ± 0.5V
50 – 99 <sup>th</sup>		±6% of reading ± 0.5V

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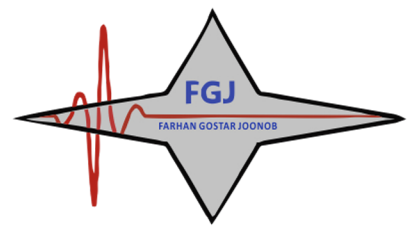
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### Harmonics of AC Current in Percentage

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1 %	±2%
21 – 49 <sup>th</sup>		±4% of reading ± 2.0%
50 – 99 <sup>th</sup>		±6% of reading ± 2.0%

### Harmonics of AC Current in Magnitude

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1A	±2% of reading ±0.4A
21 – 49 <sup>th</sup>		±4% of reading ±0.4A
50 – 99 <sup>th</sup>		±6% of reading ±0.4A

### Power Factor (PF)

Range	Resolution	Accuracy
0.00 – 1.00	0.01	± 0.04

### Phase Angle (Φ)

Range	Resolution	Accuracy
-180° to 180°	0.1°	± 1°

### Peak Value of ACV (peak value > 20V) or ACA (peak value > 20A), VT=1

Range	Sampling Time	Accuracy of Reading
50 Hz	19μs	± 5% ± 30 digits
60 Hz	16μs	± 5% ± 30 digits

### Crest Factor (C.F.) of ACV (peak value >20V) or ACA (peak value > 20A), VT=1

Range	Resolution	Accuracy of Readings
1.00 – 99.99	0.01	± 5% ± 30 digits

### Frequency in AUTO mode

Range	Resolution	Accuracy of Reading
45 – 65 Hz	0.1Hz	0.1Hz

### Total Harmonic Distortion

Range	Resolution	Accuracy
0.0 – 20%	0.1%	± 2%
20 – 100%		± 6% of reading ± 1%
100 – 999.9 %		± 10% of reading ± 1%

## General Specifications:

### PROVA 6830 Analyzer

Battery Type:	1.5V SUM-3 x 8
External DC Input:	Use only power supply adapter Model PHAPSA
Display:	Dot Matrix LCD (240x128) with backlight
LCD Update Rate:	1 time / second
Power Consumption:	140mA (approx.)



No. Of Samples:	1024 samples / period
Data Logging Files:	85
Max. File Capacity:	17474 records (3P4W, 3P3W) 26210 records (1P3W) 52420 records (1P2W) 4096 records (50 Harmonics / record)
Sampling Time:	2 to 3000 seconds for data logging
Low battery Indication:	
Overload Indication:	OL
Operating Temperature:	-10°C to 50°C
Operating Humidity:	less than 85% relative
Storage Temperature:	-20°C to 60°C
Storage Humidity:	less than 75% relative
Dimension:	257(L) x 155(W) x 57(H) mm 10.1"(L) x 6.1"(W) x 2.3"(H)
Weight:	1160g (Batteries included)
Accessories:	Test leads (3 meter long) x 4 <b>Probes 6802 x 3</b> Alligator clips x 4 Carrying bag x 1 Users manual x 1 Batteries 1.5V x 8 Software CD x 1 Software users manual x 1 USB to RS232 cable x 1

### PROVA 6802 Current Probes

Conductor Size:	55mm (approx.), 64 x 24mm (bus bar)
Range Selection:	Manual (10A, 100A, 1000A)
Battery:	powered by power analyzer
Dimension:	244mm (L) x 97mm (W) x 46mm (H) 9.6" (L) x 3.8" (W) x 1.8" (H)
Weight:	600g

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