



PROVA®

AFLEX 6300 Graphic Power Quality Analyzer

Electrical Specifications: (23°C±5°C)

AC Watt

Range	Resolution	Accuracy of Readings	
		> 20 V and > 30A	< 20V or < 30A
10.0 – 999.9 W	0.1W	±1% of Range ±0.3W	±2% of Range
1.000 – 9.999 KW	0.001 KW	±1% of Range ±0.003KW	±2% of Range
10.00 – 99.99 KW	0.01 KW	±1% of Range ±0.03KW	±2% of Range
100.0 – 999.9 KW	0.1 KW	±1% of Range ±0.3KW	±2% of Range
1000 – 9999 KW	1 KW	±1% of Range ±3KW	±2% of Range

AC Apparent Power (VA)

Range	Resolution	Accuracy of Readings	
		> 20 V and > 30A	<20V or < 30A
10.0 – 999.9 VA	0.1VA	±1% of Range ±0.3VA	±2% of Range
1.000 – 9.999 KVA	0.001 KVA	±1% of Range ±0.003KVA	±2% of Range
10.00 – 99.99 KVA	0.01 KVA	±1% of Range ±0.03KVA	±2% of Range
100.0 – 999.9 KVA	0.1 KVA	±1% of Range ±0.3KVA	±2% of Range
1000 – 9999 KVA	1 KVA	±1% of Range ±3KVA	±2% of Range

AC Reactive Power (VAR)

Range	Resolution	Accuracy of Readings	
		> 20 V and > 30A	<20V or < 30A
10.0–999.9 VAR	0.1VAR	±1% of Range ±0.3VAR	±2% of Range
1.000–9.999 KVAR	0.001 KVAR	±1% of Range ±0.003KVAR	±2% of Range
10.00–99.99 KVAR	0.01 KVAR	±1% of Range ±0.03KVAR	±2% of Range
100.0–999.9 KVAR	0.1 KVAR	±1% of Range ±0.3KVAR	±2% of Range
1000 – 9999 KVAR	1 KVAR	±1% of Range ±3KVAR	±2% of Range

Power Factor (PF)

Range	Resolution	Accuracy	
		> 20V & > 30A	< 20V or < 30A
0.000 – 1.000	0.001	± 0.04	±0.1

AC Current

Range	Resolution	Accuracy of Readings
3A – 300.0A	0.1A	±1% of Range ±0.3A
300.0 – 3000A	0.1A / 1A	±1% of Range ±3A

**AC Voltage (Overload Protection AC 800V)**

Range	Resolution	Accuracy of Readings
4.0 V – 600.0 V	0.1 V	$\pm 0.5\% \pm 5\text{dpts}$

Harmonics of AC Voltage in Percentage

Range	Resolution	Accuracy
1 – 20 th	0.1%	$\pm 2\%$
21 – 50 th	0.1%	4% of reading $\pm 2.0\%$

Harmonics of AC Voltage in Magnitude

Range	Resolution	Accuracy
1 – 20 th	0.1%	$\pm 2\% \pm 0.5V$
21 – 50 th	0.1%	4% of reading $\pm 0.5V$

Harmonics of AC Current in Percentage

Range	Resolution	Accuracy
1 – 20 th	0.1%	$\pm 2\%$
21 – 50 th	0.1%	$\pm 6\%$

Harmonics of AC Current in Magnitude (True RMS < 300A)

Range (0 – 300A)	Resolution	Accuracy
1 – 20 th	0.1%	$\pm 2\%$ of range $\pm 0.4A$
21 – 50 th	0.1%	$\pm 4\%$ of range $\pm 0.4A$

Harmonics of AC Current in Magnitude (3000A > True RMS > 300A)

Range	Resolution	Accuracy
1 – 20 th	0.1%	$\pm 2\%$ of range $\pm 40A$
21 – 50 th	0.1%	$\pm 4\%$ of range $\pm 40A$

Phase Angle (Φ , V > 20V, A > 30A)

Range	Resolution	Accuracy
-180° to 180°	0.1°	$\pm 2^\circ$
0° to 360°	0.1°	$\pm 2^\circ$

Total Harmonic Distortion

Range	Resolution	Accuracy
0.0 – 20%	0.1%	$\pm 2\%$
20 – 100%	0.1%	$\pm 7\%$
100 – 999.9 %	0.1%	$\pm 11\%$

Peak Value of AC Voltage (RMS value > 20V) or AC Current (RMS value > 30A)

Range	Sampling Time	Accuracy of Reading
50 Hz	39 μs	$\pm 5\% \pm 50$ digits
60 Hz	33 μs	$\pm 5\% \pm 50$ digits

Frequency of AC Voltage (RMS value > 20V) or AC Current (RMS value > 30A)

Range	Resolution	Accuracy
46 – 65	0.1	$\pm 0.3\text{Hz}$

+982165565901

+982144584619

+989034119385

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General Specifications:

Probe Length: 6300-24	24 in / 610 mm
Minimum Bending Diameter:	35mm
Connector Diameter:	23mm
Cable Diameter:	14mm
Cable Length from Probe to Box:	1700mm
Cable Length from Box to Output:	1700mm
Data Logging Memory Size:	512K bytes
Maximum Transient Events:	32000
Dimension (Box):	130 (L) x 80 (W) x 43 (H) mm 5.1" (L) x 3.1" (W) x 1.7" (H)
Battery Type:	two 1.5V SUM-3
Display:	128 X 64 Dot Matrix LCD with Backlight
Range Selection:	Auto
Overload Indication:	OL
Power Consumption:	10mA (approx)
Auto-Power-Off:	15 minutes after power-on
LCD Update Time:	2 times/sec.
No. Of Samples per Period	512 (voltage or current); 256 (power)
Operating Temperature:	-10°C to 85°C
Operating Humidity:	15% to 85% RH
Altitude:	up to 2000M
Storage Temperature:	-20°C to 85°C
Storage Humidity:	15% to 85% RH
Weight:	430g (battery included)
Accessories:	Test leads Users manual x 1 Batteries 1.5V x 2 Software CD x 1 Software users manual x 1 Carrying Case x 1

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