



## 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	±0.5% ± 5dgt

**Harmonics of AC Voltage in Percentage**

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

**Harmonics of AC Voltage in Magnitude**

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

**Harmonics of AC Current in Percentage**

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	±2%
21 – 50 <sup>th</sup>	0.1%	±6%

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

Range (0 – 300A)	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	±2% of range ±0.4A
21 – 50 <sup>th</sup>	0.1%	±4% of range ±0.4A

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

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	±2% of range ±40A
21 – 50 <sup>th</sup>	0.1%	±4% of range ±40A

**Phase Angle ( $\Phi$ , V > 20V, A > 30A)**

Range	Resolution	Accuracy
-180° to 180°	0.1°	± 2°
0° to 360°	0.1°	± 2°

**Total Harmonic Distortion**

Range	Resolution	Accuracy
0.0 – 20%	0.1%	± 2%
20 – 100%	0.1%	± 7%
100 – 999.9 %	0.1%	± 11%

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

Range	Sampling Time	Accuracy of Reading
50 Hz	39 $\mu$ s	± 5% ± 50 digits
60 Hz	33 $\mu$ s	± 5% ± 50 digits

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

Range	Resolution	Accuracy
46 – 65	0.1	± 0.3Hz

## 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

# PROVA<sup>®</sup>

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