

AFLEX-6300 Graphic Power Quality Analyzer



FEATURES

- Display of Overlapped Voltage and Current Waveform
- Maximum Demand (MD in W, KW, MW) with Programmable Period
- Harmonics Analysis (V and I) to the 50th Order
- Display of 25 Harmonics in One Screen with Waveform
- Display of waveform with Peak Values (512 Samples / Period), Datalogging of 32, 64, 128 or 256 Points/Cycles
- Analysis of Total Harmonics Distortion (% THD-F)
- Graphic Phasor Diagram
- Programmable PT (1 to 3000) Ratios
- Capture 128 Transient Events (Time + Cycles + Faults) with Programmable Threshold(%), Can Also be Reviewed in LCD
- 50000 Records with Programmable Interval (1 to 6000 seconds)
- Output of Waveform, Power Parameters and 50 Harmonics at Command.
- Large Dot Matrix LCD Display with Backlight
- Optical Isolated RS-232C Interface
- Smart Datalogging to save Battery Power for Long-term Monitoring
- Built - in Calendar Clock for Data Logging



SPECIFICATION

AC Watt (45 ~ 65 Hz, PF 0.5 to 1, CT=1)

Range	Resolution	Accuracy of Readings
100.0 - 999.9 W	0.1 W	2% ± 8 dgts
1.000 - 9.999 KW	0.001 KW	2% ± 8 dgts
10.00 - 99.99 KW	0.01 KW	2% ± 8 dgts
100.0 - 999.9 KW	0.1 KW	2% ± 8 dgts
1000 - 9999KW	1 KW	2% ± 8 dgts

AC Current (45~65 Hz , True RMS)

Range	Range	Resolution	Accuracy of Readings
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30 - 300 A	0.00 - 300 A	0.1 A	1 % of range $\pm$ 8 dgts
300 - 999.9 A	100.0 - 999.9 A	0.1 A	1 % of range $\pm$ 8 dgts
1000 - 3000 A	1000 - 3000 A	1 A	1 % of range $\pm$ 8 dgts

Harmonics of ACA in % and Magnitude (1 to 50th order)

Range	Resolution	Accuracy in %	Resolution	Accuracy in Magnitude
10.0 - 300 A	0.1 %	$\pm$ 1.0%	0.1 A	$\pm$ 1.0% of range $\pm$ 0.8A
1000 - 3000 A	0.1 %	$\pm$ 1.0%	1 A	$\pm$ 1.0% of range $\pm$ 3 A

Power Factor (PF)

Range	Resolution	Accuracy of Readings
0.00 - 1.00	0.01	$\pm$ 1.5 % $\pm$ 8 digits

Harmonics of AC Voltage in % and Magnitude (1 to 50th order)

Range	Resolution	Accuracy in %	Resolution	Accuracy in Magnitude
50 - 600 V	0.1 %	$\pm$ 0.5%	0.1V	$\pm$ 0.5 % $\pm$ 0.5V

Phase Angle (Φ)

Range	Resolution	Accuracy of Readings
-180 ° to 180 ° (0 ° to 360 °)	0.1 °	$\pm$ 1 % $\pm$ 2 digits

AC Voltage (45 ~ 65 Hz, True RMS)

Range	Resolution	Accuracy of Readings
3 V - 600 V	0.1 V	$\pm$ 0.5 % $\pm$ 5 dgts

Total Harmonics Distortion (% THD-F , 1 to 50th order)

Range	Resolution	Accuracy of Readings
0.0 - 999.9 %	0.1 %	$\pm$ 0.5 % $\pm$ 5 digits

General Specification:

Conductor Size	150 mm (approx.)
Battery Type	1.5 V SUM-3 *2
Display	128*64 Dot Matrix
Power Consumption	10 mA (approx.)
Auto - Power - Off	15 minutes
LCD update rate	2 times/sec
Dimension	130mm(L)*80mm(W)*43mm(H), 5.1"(L)*3.1"(W)*1.7"(H)
Accessories	Test lead*1 pair, Users manual*1, Batteries 1.5V*2
No. of Sample / Period	512 (V & A), 256 (W)

Operating Temperature	-10 °C to 50 °C
Operating Humidity	< 85% RH
Storage Temperature	-20 °C to 60 °C
Storage Humidity	< 75 % RH
Weight	450g