

# PROVA-6200 Graphic Power Quality Analyzer



## FEATURES

- Analysis for Single Phase and Balanced 3 phase system
- True RMS Value (V and I)
- Active Power (K,KW,MW,GW)
- Apparent (VA,KVA,MVA) and Reactive Power (VAR,KVAR,MVAR)
- Power Factor (PF), Phase Angle(  $\Phi$  )
- Energy (WH,KWH,KVARH,PFH)
- Programmable PT(1 to 3000)Ratios
- Display of Overlapped Voltage and Current Waveform
- Maximum Demand (MD in W,KW,MW) with programmable Period
- Harmonic Analysis (V and I) to 50th Order
- Display of 25 Harmonics in one screen
- Optical Isolated RS-232C Interface
- Smart Datalogging to save Battery
- Datalogging of 32,64,128 or 256 points/cycles
- Analysis of Total Harmonic Distortion (%THD-F)
- Graphic Phasor Diagram
- Capture 128 Transient Events (Time+Cycles+Faults) with Programmable Threshold(%),also can be reviewed in LCD
- 50000 Records with Programmable Interval (1 to 6000 seconds)
- Real-time Output of Waveform, Power Parameters and Harmonics at Command
- Large Dot Matrix LCD Display with Backlight
- Power for Long-term Monitoring
- Built -in Calendar Clock for Data Logging



## SPECIFICATION

AC Current (50 or 60 Hz, Auto Range, True RMS)

Range	Resolution	Accuracy of Reading
4.0 V - 1500.0 A	0.01 A	$\pm 0.5 \% \pm 5$ dgts

AC Voltage (50 or 60 Hz, Auto Range, True RMS)

Range	Resolution	Accuracy of Reading
4.0 - 600.0 V	0.1 V	$\pm 0.5 \% \pm 5$ dgts

+982165565901

+982144584619

+989034119385

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

Range	Resolution	Accuracy (in%)	Accuracy (in Magnitude)
1 – 20 th	0.1 %	± 2 %	± 2 % ± 0.5 V
20 – 50 th	0.1 %	4 % of reading ± 2 %	4 % of reading ± 0.5 V

Harmonics of AC Current in Percentage and Magnitude (1 to 50th order)

Range	Resolution	Accuracy (in %)	Accuracy (in Magnitude)
1 – 20 th	0.1 %	± 2 %	± 2 % of reading ± 0.4 A
20 – 50 th	0.1 %	4 % of reading ± 2 %	± 4 % of reading ± 0.4A

Power Factor (PF)

Range	Resolution	Accuracy (>20 V and >20 A)
0.000 - 1.000	0.001	± 0.04

Phase Angle ( Φ )

Range	Resolution	Accuracy (>20 V and >20 A)
-180 °to 180 °(0 °to 360 °)	0.1 °	±1 °

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

Range	Resolution	Accuracy (>20 V and >20 A)
0.0 - 20%	0.1%	± 2 %
20 - 100%	0.1%	± 6 % of reading ± 1 %
100 - 999.9%	0.1%	± 10 % of reading ± 1 %

Crest Factor (C.F.)

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

AC Watt (50 or 60 Hz, PF 0.5 to 1, CT=1)

Range	Resolution	Accuracy of Readings
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		(>20V and >20A)
10.0 - 999.9 W	0.1 W	$\pm 1\% \pm 20$ dgts
1.00 - 9.999 KW	0.001 KW	$\pm 1\% \pm 20$ dgts
10.00 - 99.99KW	0.01 KW	$\pm 1\% \pm 20$ dgts
100.0 - 999.9 KW	0.1 KW	$\pm 1\% \pm 20$ dgts
1000 - 9999 KW	1 KW	$\pm 1\% \pm 20$ dgts

### General Specification:

<b>Conductor Size</b>	55mm(approx.), 64*24mm(bus bar)
<b>Battery Type</b>	Two 1.5 V SUM-3
<b>Display</b>	128*64 Dot Matrix
<b>Power Consumption</b>	10 mA (approx.)
<b>Auto - Power - Off</b>	30 minutes after power-on
<b>Update time</b>	2 times/sec. (display)
<b>No. of Samples per Period</b>	512 (voltage or current), 256 (power)
<b>Operating Temperature</b>	-10 °C to 50 °C
<b>Operating Humidity</b>	<85% RH
<b>Storage temperature</b>	-20 °C to 60 °C
<b>Storage Humidity</b>	<75% RH
<b>Dimension</b>	210 mm (L) * 62 mm (W) * 35.6 mm (H), 8.3"(L) * 2.5"(W) * 1.4"(H)
<b>Weight</b>	Test leads *1 pair, Carrying bag*1, Users manual*1, Batteries 1.5V*2
<b>Accessories</b>	640g

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