



ENGLISH

Datasheet

Stock No. 123-2207

IPM 6200

Graphic Power Quality Analyzer



FEATURES :

- Power Quality Analysis for Single and Balanced 3 Phase System
- Harmonic Analysis of Voltage and Current (1 to 50th order)
- True RMS measurement of V with 0.5% basic accuracy
- True RMS measurement of A with 1% of range basic accuracy
- Graphic Waveform of Voltage and Current
- Graphic Phasor Diagram
- Transient Detection and Logging of Swell, Dip, and Outage
- Fast peak function (39 μ s for 50 Hz, 33 μ s for 60Hz)
- Active (W, KW, HP), reactive (VAR, KVAR) and apparent (VA, KVA) power
- Power factor (PF), phase angle (Φ), and energy (WH, KWH)
- Programmable VT ratio from 1 to 3000
- Hold functions
- Auto power off function in 15 minutes (selectable)

SPECIFICATIONS : (23°C \pm 5°C)

AC Watt

Range (0 to 1500A)	Resolution	Accuracy of Readings	
		> 20 V and > 20A	< 20V or < 20A
10.0 – 999.9 W	0.1W	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
1.000 – 9.999 KW	0.001 KW	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
10.00 – 99.99 KW	0.01 KW	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
100.0 – 999.9 KW	0.1 KW	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
1000 – 9999 KW	1 KW	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts

AC Apparent Power (VA)

Range (0 to 1500A)	Resolution	Accuracy of Readings	
		> 20 V and > 20A	<20V or < 20A
10.0 – 999.9 VA	0.1VA	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
1.000 – 9.999 KVA	0.001 KVA	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
10.00 – 99.99 KVA	0.01 KVA	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
100.0 – 999.9 KVA	0.1 KVA	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts
1000 – 9999 KVA	1 KVA	$\pm 1\% \pm 20$ dgts	$\pm 2\% \pm 40$ dgts

AC Reactive Power (VAR)

Range (0 to 1500A)	Resolution	Accuracy of Readings	
		> 20 V and > 20A	<20V or < 20A
10.0–999.9 VAR	0.1VAR	±2% ±30dgts	±3% ±40dgts
1.000–9.999 KVAR	0.001 KVAR	±2% ±30dgts	±3% ±40dgts
10.00–99.99 KVAR	0.01 KVAR	±2% ±30dgts	±3% ±40dgts
100.0–999.9 KVAR	0.1 KVAR	±2% ±30dgts	±3% ±40dgts
1000 – 9999 KVAR	1 KVAR	±2% ±30dgts	±3% ±40dgts

Power Factor (PF)

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

AC Current (50 or 60 Hz, Auto Range, True RMS, Crest Factor < 4, Overload Protection AC 2000A)

Range	Resolution	Accuracy of Readings
4.0 – 1500.0 A	0.01 A	±1.0% ± 5dgts

AC Voltage (Overload Protection AC 800V)

Range	Resolution	Accuracy of Readings
4.0 V – 600.0 V	0.1 V	±0.5% ± 5dgts

Harmonics of AC Voltage in Percentage

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

Harmonics of AC Voltage in Magnitude

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

Harmonics of AC Current in Percentage

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

Harmonics of AC Current in Magnitude

Range	Resolution	Accuracy
1 – 20 th	0.1%	±2% of range ±0.4A
21 – 50 th	0.1%	±4% of range ±0.4A

Phase Angle (Φ)

Range	Resolution	Accuracy
-180° to 180°	0.1°	± 1°
0° to 360°	0.1°	± 1°

Total Harmonic Distortion

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

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

Range	Sampling Time	Accuracy of Reading
50 Hz	39 µs	± 5% ± 50 digits
60 Hz	33 µs	± 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

Conductor Size:	55mm (approx.), 65 x 24mm (bus bar)
Data Logging Memory Size:	512K bytes
Maximum Transient Events:	32000
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 50°C
Operating Humidity:	Less than 85% RH
Altitude:	up to 2000M
Storage Temperature:	-20°C to 60°C
Storage Humidity:	Less than 75% RH
Dimension (Box):	271 x 112 x 46 mm
Weight:	647g (battery included)
Accessories:	Users manual, Batteries 1.5V x 2, Software CD, Software users manual, Carrying Bag, Test leads, Alligator clips, Optical USB cable