KKInstruments tel:+607-4352540 fax:+607-4347299 mon-fri 9am-6pm admin@testequipmentmalaysia.com

PROVA-6830+6801 Power and Harmonics Analyzer (100A) PROVA-6830+6802 Power and Harmonics Analyzer (1000A) PROVA-6830+3007 Power and Harmonics Analyzer (3000A)

### **FEATURES:**

- Analysis for 3P4W, 3P3W, 1P2W, 1P3W
- True RMS Value(V 123 and L 123)
- Active Power(W, KW, MW, GW)
- Apparent and Reactive Power (KVA, KVAR)
- Power Factor (PF), Phase Angle (Φ)
- Energy (WH, KWH, KVARH, PFH)
- Current Measurement from 0.1mA to 3000A, Capable of Analyzing IT Standby Power Consumption to the Maximum Demand of a Factory
- Display of 35 Parameters in One Screen(3P4W)
- rogrammable CT (1 to 600) and PT (1 to 3000) Ratios
- Display of Overlapped Voltage and Current Waveform
- 2.4M Memory with Programmable Interval (1 to 6000 seconds, 17000 Records for 3P4W System)
- Output of Waveform, Power Parameters and Harmonics at Command
- Large Dot Matrix LCD Display with Backlight
- Average Demand (AD in W, KW, MW)
- aximum Demand (MD in W, KW, MW) with Programmable Period
- Harmonic Analysis to the 99th Order
- Display of 50 Harmonics in One Screen with Waveform
- Display of Waveform with Peak Values (1024 Samples/Period)
- Analysis of Total Harmonic Distortion (%THD-F)
- Graphic Phasor Diagram with 3 Phase System Parameters
- Capture 28 Transient Events (Time+Cycles) with Programmable Threshold(%)
- 3 Phase Voltage Unbalance Ratio (VUR)
- 3 Phase Voltage Unbalance Factor (d0%, d2%)
- Calculated Unbalance Current through Neutral Line (In)
- · Optical isolated USB Interface
- Built-in Timer and Calendar for Data Logging
- onductor Size: -Model 6801 30mm(approx) -Model 6802 5
- 55mm(approx),64\*24mm(bus bar) -Model 3007 170mm(approx)

### SPECIFICATION:

\* Please refer to users manual for more detailed and up-to-date description of specification

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

Bongo	Resolution Accuracy of Readings			ings
Range	Resolution	6800+6801	6800+6802	6800+3007
5.0 – 999.9W	0.1W	±1% ± 8dgts	±1% ± 8dgts	±1% of VA Range ±8dgts
1.000 – 9.999 KW	0.001 KW	±1% ± 8 dgts	±1% ± 8 dgts	±1% of VA Range ±8dgts
10.00 – 99.99 KW	0.01 KW	±1% ± 8 dgts	±1% ± 8 dgts	±1% of VA Range ±8dgts



PROVA-6830+3007

BUY WITH CONFIDENCE.

We provide UNLIMITED technical support and product advice. You'll receive your items in EXCELLENT condition.Proven.

ww.METER.com.my

KKInstruments tel:+607-4352540 fax:+607-4347299 mon-fri 9am-6pm admin@testequipmentmalaysia.com

100.0 – 999.9 KW	0.1 KW	±1% ± 8dgts	±1% ± 8dgts	±1% of VA Range ±8dgts
1000 – 9999 KW	1 KW	±1% ± 8dgts	±1% ± 8dgts	±1% of VA Range ±8dgts
0.000 - 9.999MW	0.001MW	-	±1% ± 8 dgts	±1% of VA Range ±8dgts

AC Current( 50 or 60Hz, Auto Range, True RMS, Crest Factor<4, CT=1)

	Range	Resolution	Accuracy of Readings
6800+6801	0.050 - 9.999A	0.001A	±0.5% ± 5dgts
(Overland Brotestian	10.00 – 60.00A	0.01A	±0.5% ± 5dgts
(Overload Protection AC200A)	60.00 – 99.99A	0.01A	±1.0% ± 5dgts
6800+6802	0.04 – 10.00A	0.01A	_
(0	0.4A - 100.0A	0.1A	±0.5% ± 5dgts
(Overload Protection AC2000A)	4.0 – 1000.0A	1A	±0.5% ± 5dgts
6800+ 3007	4 – 300A	0.1A	±1% of Range ±5dgts
(Overland Brotestian	300.0 – 999.9A	0.1A	±1% of Range ±5dgts
(Overload Protection AC3500A)	1000 – 3000A	1A	±1% of Range ±5dgts

AC Voltage (50 or 60 Hz, Auto Range, True RMS, Crest FActor<4)

Range	Resolution	Accuracy of Readings	Range	Resolution	Accuracy of Readings
4.0V – 500.0 (Phase to Neutral)	0.1V	± 0.5% ± 5dgts	4.0V –600.0V (Phase to phase)	0.1V	± 0.5% ± 5dgts

Harmonics of AC Voltage in % and in Magnitude (1 to 99th order, minimum voltage at the 50 or 60 Hz>AC 80V)

Range	In Percentage		In Magnitude	
Kange	Resolution	Accuracy of readings	Resolution	Accuracy of readings
1 – 20 th		±2%		±2% ±0.5V
21 – 49 th	0.1%	4% of reading ±2.0%	0.1 V	4% of reading ±0.5A
50 – 99 th		6% of reading ±2.0%		6% of reading ±0.5A

Harmonics of AC Current in % and in Magnitude

Model 6800+6801(100A)(1 to 99th order, minimum current at 50 or 60 Hz is greater than 10% of the range)

Г	Panga	In Percentage		In magnitude	
	Range Resolution		Accuracy of reading	Resolution	Accuracy of reading
	1 – 10 th	0.1%	±0.2 of reading ±1%	0.1mA / 0.1A	±0.2% of reading ±7dgts

BUY WITH CONFIDENCE.

We provide UNLIMITED technical support and product advice. You'll receive your items in EXCELLENT condition.Proven.

ww.METER.com.my

KKInstruments tel:+607-4352540 fax:+607-4347299 mon-fri 9am-6pm admin@testequipmentmalaysia.com

11 – 20 th	±2% of reading ±1%	±2% of reading ±7dgts
2 1 – 50 th (A range)	±5% of reading ±1%	±5% of reading ±7dgts
2 1 – 50 th (mA range)	±10% of reading ±1%	±10% of reading ±7dgts
5 1 – 99 th	±35% of reading ±1%	±35% of reading ±7dgts

Model 6800+6802(1000A); 6800+3007(3000A)(1 to 99th order, minimum current at the 50 or 60 Hz>20A)

Range	lı	In Percentage		In Magnitude
Kange	Resolution	Accuracy of reading	Resolution	Accuracy of reading
1 – 20 th		±2%	0.1A(6802)	±2% of reading ±0.4A/0.6A
21 – 49 th	0.1%	4% of reading ±2.0%	/ /	±4% of reading ± 0.4A/0.6A
50 – 99 th		6% of reading ±2.0%	0.3A(3007)	±6% of reading ± 0.4A/0.6A

### **Total Harmonic Distortion**

Range	Resolution	Accuracy(6801)	Accuracy(6802)	Accuracy(3007)
0.0 – 20%	0.1%	±1%	±2%	±2%
20 – 100%	0.1%	±3% of reading ±5%	±6% of reading ±1%	±6% of Range ±1%
100 – 999.9%	0.1%	±10% of reading ±10%	±10% of reading ±1%	±10% of Range ±1%

## Peak Value of Ac Voltage or AC Current ,VT=1

Range	Samping Time	Accuracy of reading
50Hz	39 µS	±5% ±30digits
60Hz	33 μS	±5% ±30 digits

## Crest Factor (C.F.) of ACV or ACA, VT=1

Range	Resolution	Accuracy of reading
1.00 – 99.99	0.01	±5% ±30digits

### Frequency in AUTO mode

Range	Resolution	Accuracy of reading
45 – 65Hz	0.1Hz	0.1Hz

## Power Factor (PF)

Range	Resolution	Accuracy of reading
0.00 – 1.00	0.01	± 0.04

# Phase Angle (Φ)

Range	Resolution	Accuracy of reading
-180 ∘ to 180 ∘	0.1 。	±1 ∘

Conductor Size (6801)	30mm (approx)
Conductor Size (6802)	55mm(approx.), 64 X 24mm(Bus Bar)
Conductor Size (3007)	170mm(approx)

BUY WITH CONFIDENCE.

We provide UNLIMITED technical support and product advice. You'll receive your items in EXCELLENT condition.Proven.

ww.METER.com.m

KKInstruments tel:+607-4352540 fax:+607-4347299 mon-fri 9am-6pm admin@testequipmentmalaysia.com

Battery Type	1.5V SUM-3 x 8
Display	Dot Matrix LCD with backlight
Power Consumption	140mA (approx.)
External DC Input	DC 12V adaptor (for safety purpose, the adaptor must be certified with 600Visolation protection)
LCD update rate	1 times / sec
No. Of Samples/Period	1024
Operating Humidity	< 85% relative
Operating Temperature	-10°C to 50°C
Storage Humidity	< 75% relative
Storage Temperature	- 20°C to 60°C
Weight(6830)	1160g
Weight(6801)	200g
Weight(6802)	600g
Dimension(6830)	257 (L) x 155 (W) x 57 (H) mm ,10.1"(L) x 6.1" (W) x 2.3" (H)
Dimension(6801)	210 (L) x 62 (W) x 36 (H) mm ,8.3 " (L) x 2.5" (W) x 1.4" (H)
Dimension(6802)	244 (L) x 97 (W) x 46 (H) mm ,9.6 " (L) x 3.8" (W) x 1.8" (H)
Accessories	test leads x 4 $^{,}$ alligator clips x 4 $^{,}$ Carrying bag x 1 $^{,}$ Users manual x 1 $^{,}$ Batteries 1.5V x 8