

PXe-PA6000 and PXe-PA8300 Power Meters

Single-phase bench measurement and three-phase network analysis

A practical two-model range covering everyday single-phase power checks and more detailed three-phase network measurement.

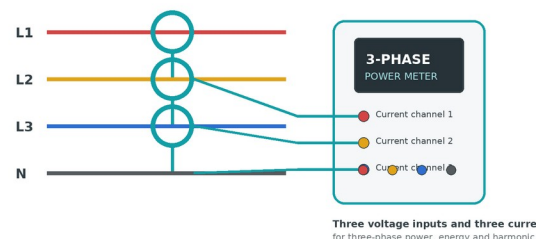
The PXe-PA6000 is a compact tabletop power meter for workshop, service and bench testing. It measures active and apparent power, power factor, energy, voltage, current, frequency and resistance, with RS-232 data transfer and optional current adaptors.

The PXe-PA8300 extends the range to three-phase systems. It measures phase and line voltage, current, active, apparent and reactive power, energy, phase angle, frequency and harmonics, with SD card logging for longer-term surveys and site measurements.

Together they provide a clear choice between straightforward single-phase diagnosis and portable three-phase analysis.



PXe-PA6000 during single-phase load measurement.



PXe-PA8300 three-phase measurement arrangement.

Single-phase bench testing

Direct measurement to 6 kW, with current clamp and CT options for higher-current loads.

Three-phase network analysis

Voltage, current, kW, kVA, kVAR, energy, power factor, phase angle and harmonics.

Logging and software

PA6000 PC analysis through RS-232; PA8300 long-term recording to SD card.

Current input flexibility

Direct current input, clamp adaptors, rigid clamps or flexible Rogowski coils depending on model.

Which model fits the application?

Model	System	Current	Power / energy	Harmonics / logging	Typical use
PXe-PA6000	Single phase	10 A direct; clamps / CTs	W, VA, PF, kWh	RS-232 software	Bench, workshop, service
PXe-PA8300	Three phase	Set 1 to 1200 A; Set 2 to 3000 A	kW, kVA, kVAR, energy	50th harmonic; SD logging	Plant, distribution, energy surveys

Typical applications

Power consumption testing, appliance and equipment checks, workshop fault-finding, load behaviour assessment, inverter and AC source support testing, plant surveys, three-phase energy logging, power factor investigation and harmonic screening.

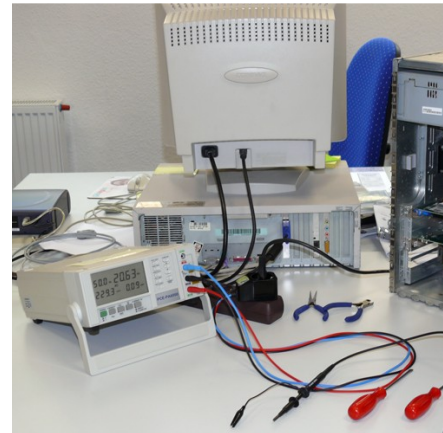
PXe-PA6000 Single-Phase Power Meter

Portable bench measurement for power consumption, diagnostics and routine electrical checks

The PA6000 combines common power and multimeter functions in a tabletop instrument that is easy to use on a workbench or during service work.

It measures active power, apparent power, power factor, energy consumption, AC and DC voltage, AC and DC current, frequency and resistance. The large LCD presents key values together, while hold, peak hold and high/low alarm functions help capture changing or abnormal readings.

Direct current measurement is available to 10 A. Higher-current or non-intrusive measurements can be made using the optional PXe-PA-ADP adaptor, compatible current clamps or industrial 5 A secondary current transformers.



PA6000 connected for bench testing.

Power measurement

Active power, apparent power, power factor and energy consumption.

Electrical values

AC/DC voltage and current, frequency and resistance.

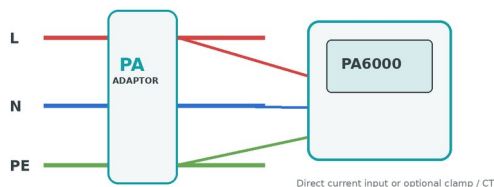
Capture functions

Data hold, peak hold and high/low alarm functions.

Data transfer

RS-232 connection with analysis software for display and recording.

Connection and current measurement options



Single-phase connection using direct or adapted current input.

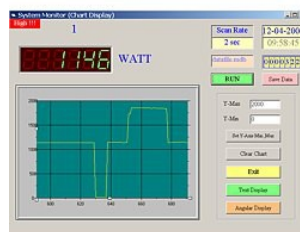
Available arrangements

- Direct measurement up to 10 A using the supplied test leads.
- PXe-PA-ADP current adaptor for safe connection of loads up to 16 A.
- Clamp adaptor for non-intrusive measurement up to 1000 A.
- Alternative clamps may extend current measurement to 2000 A.
- Industrial 5 A secondary current transformers can also be used.

PC analysis and recording



Four-value display



Trend recording

Supplied analysis software

View up to four measurement values together, record changes over time and retain results for later review. The RS-232 interface suits workshop logging and repeatable product checks.

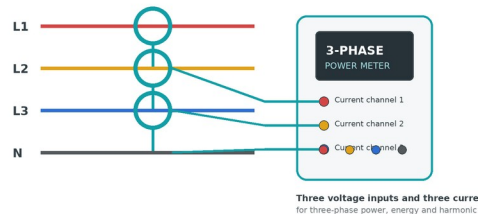
PXe-PA8300 Three-Phase Power Meter

Portable network measurement, harmonic screening and long-term SD card logging

The PA8300 is designed for three-phase power and energy surveys on machinery, distribution boards and electrical installations.

It measures phase-to-neutral and phase-to-phase voltage, three current channels, active, apparent and reactive power, energy, power factor, phase angle and frequency. Harmonic analysis to the 50th order helps identify distorted loads and power-quality issues.

A built-in SD card recorder supports longer-term monitoring without a permanently connected computer. Live values can also be transferred through USB or RS-232 when a suitable connection cable is used.



Three-phase voltage and current measurement arrangement.

Choose the current input set

SET 1



20 / 200 / 1200 A

Three rigid current clamps

SET 2



30 / 300 / 3000 A

Three flexible Rogowski coils

Voltage and current 10 to 600 V AC phase-to-neutral or phase-to-phase. Set 1 ranges to 1200 A; Set 2 ranges to 3000 A.	Power and energy Active, apparent and reactive power up to 9.999 MW / MVA / MVAR, with energy accumulation.	System behaviour Power factor, -180° to +180° phase angle and 45 to 65 Hz frequency measurement.	Harmonic screening Voltage and current harmonics to the 50th order for 50/60 Hz systems.
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Logging and field use

SD card logging Record measurements to removable media with a user-selectable filing interval from 2 to 7200 seconds.	Portable enclosure 3.7-inch graphic LCD, battery or 9 V adaptor operation, carrying case and insulated test leads.	Site-ready measurement CAT III 600 V safety category, 50 mm maximum conductor diameter and three current sensors supplied with the selected set.
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Typical three-phase applications

Plant surveys, distribution board checks, energy monitoring, power factor and phase balance checks, harmonic screening and longer-term electrical performance recording.

Model comparison and key specifications

Select the measurement capability and current input arrangement required for the application

Parameter	PX _e -PA6000	PX _e -PA8300 Set 1	PX _e -PA8300 Set 2
System	Single phase	Three phase	Three phase
Voltage	0.1 to 600 V AC/DC	10 to 600 V AC, L-N or L-L	10 to 600 V AC, L-N or L-L
Current	10 A direct; clamps / CTs to 1000 A or 2000 A	20 / 200 / 1200 A rigid clamps	30 / 300 / 3000 A flexible coils
Active power	1 W to 6 kW direct; 999.9 kW extended	0 to 9.999 MW	0 to 9.999 MW
Apparent power	0.01 VA to 9.999 kVA	0 to 9.999 MVA	0 to 9.999 MVA
Reactive power	Not specified	0 to 9.999 MVAR	0 to 9.999 MVAR
Energy	0.001 Wh to 9,999 kWh	Active and apparent/reactive energy to 9.999 MWh / MVARh	Active and apparent/reactive energy to 9.999 MWh / MVARh
Power factor / phase	PF 0.00 to 1.00	PF 0 to 1; phase angle -180° to +180°	PF 0 to 1; phase angle -180° to +180°
Frequency	10 to 999 Hz	45 to 65 Hz	45 to 65 Hz
Harmonics	No harmonic spectrum function	Voltage/current harmonics to 50th order	Voltage/current harmonics to 50th order
Logging / interface	RS-232 with PC analysis software	SD card logging; USB or RS-232 live display	SD card logging; USB or RS-232 live display
Display	93 x 52 mm multifunction LCD	3.7-inch 320 x 240 graphic LCD	3.7-inch 320 x 240 graphic LCD
Safety	IEC 1010-1; CAT II 600 V	IEC 1010; CAT III 600 V	IEC 1010; CAT III 600 V
Operating conditions	0 to 50°C; max. 80% RH	0 to 50°C; below 80% RH	0 to 50°C; below 80% RH
Size / weight	280 x 210 x 90 mm; approx. 1.6 kg	225 x 125 x 64 mm; approx. 948 g meter	225 x 125 x 64 mm; approx. 948 g meter

Selection and supplied equipment

Choose PA6000 when

The work is mainly single-phase, bench based or service focused and straightforward power, energy and electrical measurements are required.

Choose PA8300 Set 1 when

Three-phase measurements are required and rigid clamp ranges up to 1200 A cover the expected conductor and current levels.

Choose PA8300 Set 2 when

Larger conductors or current levels up to 3000 A require flexible Rogowski coils and easier access around installed cabling.

Accessories and delivery

PA6000: test leads, mains adaptor, software and optional PA adaptor / clamps. PA8300: three selected current sensors, voltage leads, insulated clips, SD card, adaptor, carrying case and manual.

Contact

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Specifications are based on the supplied product information and may be revised without notice. Confirm the required current input set and accessories at quotation stage.