

POWER QUALITY ANALYZER

PCE-PA 8500



- » **Measurement of voltage, current, frequency**
- » **Harmonics, harmonics, starting current**
- » **Power and energy measurement**
- » **Sags, surges, and flicker in the power grid**
- » **Graphical representation of waveform and vector graphics**
- » **Data logger with 8 GB storage**
- » **LAN and USB data interface**
- » **Includes flexible current clamps up to 3 A**
- » **Compliance with standards: IEC61-4-3, 61-4-15, 61-4-7, EN516**

The clamp meter redefines standards in electrical measurement technology, offering a comprehensive range of features for precise and detailed measurements. The clamp meter allows accurate measurements of electrical voltage, current, frequency, harmonics, and starting currents. In addition, precise power and energy measurements can be performed, enabling accurate monitoring and optimization of energy consumption. The graphical representation of waveforms and vector graphics allows users to visually capture and analyze electrical signals. These features provide insights into the quality of electrical power and aid in identifying issues in the network. The device can also detect and display sags, surges, or flickers in the power supply network.

The broad measurement range or desired selection allows the integrated data logger with generous 8 GB storage to store and archive extensive measurement data for later analysis. This ensures continuous data capture that can also be scheduled. The clamp meter is equipped with LAN and USB interfaces, enabling convenient data transfer and remote control.

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Specification

Direct voltage DC

Measuring range up to	1 ... 1000 V
Resolution	0,1 V
Accuracy	±0.5% of the measured value (of m.v.)

AC voltage

Measuring range up to	1 ... 1000 V
Resolution	0,1 V
Accuracy	±0.5 %

Alternating current AC

Measuring range up to	15 ... 3000 A
Resolution	0,1 A
Accuracy	±3%

Inrush current

Measuring range up to	15 ... 3000 A AC
Resolution	0.1 A AC
Accuracy	±3 %

Power factor

Measuring range up to	0 ... 1
Resolution	0.01
Accuracy	±0.03

Frequency

Measuring range up to	42,5 ... 57,5 Hz
Resolution	0,01 Hz
Accuracy	±0.01Hz

Frequency

Measuring range up to	51 ... 69 Hz
Resolution	0,01 Hz
Accuracy	±0.01Hz

Frequency

Measuring range up to	385 ... 414 Hz
Resolution	0,01 Hz
Accuracy	±0.01Hz

Harmonic measurement (harmonics)

Measuring range up to	1 ... 50 (ordinal number)
Current range	0 ... 100 %
Voltage range	0 ... 100 %
THD range	0 ... 100 %

General technical data

Display Typ	TFT-Color Display
Display size	2,6 Inch
Storage medium	Internal memory
Storage capacity	8 GB
Storage interval from	1 s
Storage interval until	60 min.
Data interface	USB, Ethernet
Norm(en)	IEC61000-4-30, EN50160, IEC61000-4-15, IEC61000-4-7, IEC61010-1
Safety standard	CAT IV 600 V, CAT III 1000V
Menu language	Turkish, English (US), Polish, Spanish, German, Chinese, Russian, French, Portuguese, Korean
Protection class (device)	IP41
Power supply	220 ... 240 V AC
Connector type	Earthing contact plug
Battery/battery	1 x 7,2 V intern , Nickel-metal hydride battery
Battery capacity	3800 mAh
Operating conditions	0 ... 40 °C , 0 ... 90 %RH
Storage conditions	-20 ... 60 °C , 0 ... 90 %RH
Dimensions (L x W x H)	260 x 190 x 67 mm
Weight	1880 g

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