

# POWER ANALYZER

PCE-PMC 10



- » **Measurement of all three phases and the neutral conductor**
- » **Efficiency measurement of inverters**
- » **Mains signal monitoring**
- » **IEC 61000-4-30 Class A**
- » **Wifi**
- » **Logger function and memory**
- » **Oscilloscope function**
- » **Inrush current**
- » **7.8-inch touch display**
- » **PC software**

The state-of-the-art power analyzer enables precise and comprehensive measurements in the areas of current, voltage, frequency, power, energy flicker and harmonics. The power analyzer has been specially developed to provide reliable data both in industrial applications and when analysing photovoltaic or inverter systems.

Simultaneous monitoring of all three phases and the neutral conductor provides a complete picture of the electrical system. The efficiency measurement of inverters allows a detailed analysis of the energy conversion, while the grid signal monitoring continuously detects deviations and faults. This power analyzer is therefore an indispensable tool for professional energy analyses.

Thanks to modern communication interfaces such as wifi, the power analyzer can be easily integrated into existing systems and enables wireless analysis of measurement data. The integrated logger function and the memory reliably save all relevant data for later analysis.

An integrated oscilloscope function allows the visual display of signal curves, including inrush currents, and thus supports the analysis of transient phenomena. The 7.8-inch touch display ensures intuitive operation and a clear presentation of all measured values, diagrams and analysis functions.

## Specification

### Direct voltage DC

Measurement range up to 1 ... 1000 V

Resolution 0,1 V

Accuracy  $\pm 0.5\%$  of Rd

### Direct current DC

Measurement range up to 0,5 ... 6000 A

Resolution 0,1 A

Accuracy  $\pm 5\% \pm 5$  Counts

### AC voltage

Measurement range up to 1 ... 1000 V

Resolution 0,1 V

Accuracy  $\pm 0.5\%$  of Rd

Frequency range 42.5 ... 69 Hz

### Alternating current AC

Measurement range up to 0,5 ... 6000 A

Resolution 0,1 A

Accuracy  $\pm 0.5\%$  of Rd

### Phase angle

Measurement range up to  $-360 \dots 0^\circ$

Resolution  $1^\circ$

Accuracy  $1^\circ$

### Inrush current

Measurement range up to 0,5 ... 6000 A

Resolution 0.1 A

Accuracy 0.5 % of Rd

### Power factor

Measurement range up to 0 ... 1

Resolution 0.001

Accuracy  $\pm 0.1\%$

### Flicker

Measurement range up to 0 ... 20

Resolution 0,01

Accuracy  $\pm 5\%$

### Unbalance

Measured variable Tension

Measurement range up to 0 ... 20 %

Resolution 0,1 %

Accuracy  $\pm 0.1\%$

### General technical data

Display type Touch screen

Display size 7,8 Inch

Storage medium SD card

Storage capacity 64 GB

Storage interval from 1 s

Storage interval to 60 min.

Interface USB-C, WiFi

Standard(s) IEC 61000-4-30, IEC 61000-4-15, IEC 61000-4-7

Maximum cable diameter 150 mm

Safety standard CAT III 1000V, CAT IV 600V

Menu language English (GB), English, Chinese

Protection class (device) IP42

Power supply 12 ... 15V DC (power supply unit included)

Connector type Euro plug

(Rechargeable) battery 2 x 7,4 V internal, Lithium-ion battery

Capacity 5200 mAh

Operating conditions  $-10 \dots 40^\circ\text{C}$ , 10 ... 95 % RH

Storage conditions  $-20 \dots 60^\circ\text{C}$ , 10 ... 95 % RH

Dimensions ( L x W x H ) 280 x 75 x 215 mm

Weight 1834 g

<b>Unbalance</b>	
Measured variable	Electricity
Measurement range up to	0 ... 20 %
Resolution	0,1 %
Accuracy	±1%
<b>Frequency</b>	
Measurement range up to	42,5 ... 460 Hz
Resolution	0,001 Hz
Accuracy	±0.01 Hz
<b>Harmonic measurement (harmonics)</b>	
Measurement range up to	1 ... 50 (ordinal number)
Current range	0 ... 100 %
Voltage range	0 ... 100 %