

POWER ANALYSER

PCE-PA 6500 R11



- » **active, apparent and reactive power**
- » **power factor and electrical energy**
- » **8 MB internal memory**
- » **app for Android**
- » **data as CSV file**
- » **measurement via Rogowski coils**
- » **no additional mains connection necessary**

The power analyser measures current and voltage values using the connected current transformers and test leads. From this, the active, apparent and reactive power are determined and transmitted to the measuring platform every second via Wi-Fi. The data is then filed historically on the power analyser, processed graphically and can be analysed or exported. The measurement with the power analyser is carried out using Rogowski coils or folding current transformers.

Alternatively (if no internet connection is available), the data can be recorded in the built-in 8 MB flash memory in the form of a CSV file for further processing at a later date. An SD card adaptor is also available as an accessory, which means that the recording duration is more than one year, even when recording to the second. It is also possible to send the CSV files periodically by e-mail, upload them to a server via FTP or transfer them to the measurement platform once the measurement has been completed. Interaction with the power analyser is mainly via Wi-Fi and web browser or via app (BLE).

Power is supplied and measured via magnetic measuring tips and connection terminals or probes. The power analyser can be connected into any main and sub-distribution board as well as into devices and systems - the power supply does not have to be interrupted. Managing the power supply is the top priority.

Specification

AC voltage

Measurement range up to 40 ... 400 V

Resolution 0,01 V

Accuracy $\pm 1\%$ of Rd

Alternating current AC

Measurement range up to 0 ... 80 A

Resolution 0,01 A

Accuracy $\pm 1\%$ of Rd

Active power

Measurement range up to 0 W ... 32 kW

Resolution 0,01 W

Accuracy $\pm 1\%$ of Rd

Reactive power

Measurement range up to 0 VAR ... 32 kVAR

Resolution 0,01 VAR

Accuracy $\pm 1\%$ of Rd

Apparent power

Measurement range up to 0 VA ... 32 kVA

Resolution 0,01 VA

Accuracy $\pm 1\%$ of Rd

Power factor

Measurement range up to 0 ... 1

Resolution 0.01

Accuracy $\pm 1\%$ of Rd

General technical data

Measuring rate 26000 Hz

Storage medium Internal memory

Storage capacity 32 GB

Memory capacity (additional information) separate phases: 22000 data records, summarised phases: 38000 data records

Storage interval from 1 s

Storage interval to 60 min.

Current consumption current clamp 100 mA DC

Maximum cable diameter 10 mm

Safety standard CAT III 300V

Fuse(s) 1000 V, 250 mA, FF

Max. power-off capacity 100 kA

Menu language German, English (GB), English, Spanish, French

Protection class (device) IP40

Power supply 100 ... 240 V 50/60 Hz (+/- 10%)
(between neutral conductor and phase A)

(Rechargeable) battery 1 x 3 V CR 2032 (button cell 3V) , Lithium-ion manganese oxide

Capacity 245 mAh

Operating conditions -5 ... 40 °C , 0 ... 80 % RH

Storage conditions -5 ... 40 °C , 0 ... 80 % RH

Dimensions (L x W x H) 123 x 96 x 36 mm

Weight 202 g