

POWER ANALYSER

PCE-PA 6500 F50



- » **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	±1 % of Rd.
Alternating current AC	
Measurement range up to	2 ... 1250 A
Resolution	0.01 A
Accuracy	±1 % of Rd.
Active power	
Measurement range up to	80 W ... 500 kW
Resolution	0,01 W
Accuracy	±1 % of Rd
Reactive power	
Measurement range up to	80 VAR ... 500 kVAR
Resolution	0,01 VAR
Accuracy	±1 % of Rd
Apparent power	
Measurement range up to	80 VA ... 500 kVA
Resolution	0,01 VA
Accuracy	±1 % of Rd
Power factor	
Measurement range up to	0 ... 1
Resolution	0.01
Accuracy	±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	49 mm
Safety standard	CAT III 300V
Fuse(s)	250mA, FA, IR>=30kA
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)
Weight	202 g
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