

# 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                | ±1 % of Rd.       |
| Alternating current AC  |                   |
| Measurement range up to | 0 ... 80 A        |
| Resolution              | 0.01 A            |
| Accuracy                | ±1 % of Rd.       |
| Active power            |                   |
| Measurement range up to | 0 W ... 32 kW     |
| Resolution              | 0,01 W            |
| Accuracy                | ±1 % of Rd        |
| Reactive power          |                   |
| Measurement range up to | 0 VAR ... 32 kVAR |
| Resolution              | 0,01 VAR          |
| Accuracy                | ±1 % of Rd        |
| Apparent power          |                   |
| Measurement range up to | 0 VA ... 32 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                         | 8 MB                                                                        |
| 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)                                  | 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%)<br>(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                                                            |