

Come rain or shine ...

PQ-Box 100

### PQ-Box 100 – the extremely robust network analyser

- Voltage quality according to EN 50160, IEC 61000-2-2 Class A, for low, medium and high voltage networks
- Fault recorder function
- Load analysis
- Energy measurement
- Shockproof, waterproof housing
- CAT IV





## PQ-Box 100

The ideal addition to the PQ product family: the PQ-Box 100 mobile network analyser (left: PQ-Box 1000, right: PQ-I-D fault recorder)

The PQ-Box 100 is a high-performance, portable network analyser; power meter and transient recorder in one instrument. The focus of our development was user-friendliness.

The PQ-Box has been developed for mobile operation (degree of protection IP 65), and is intended for measurements in public networks (installation category: CAT IV). The device conforms to all the requirements of the stringent IEC 61000-4-30 measurement device standard for Class A devices.

Thanks to its small size, power supply via measurement cables and application-specific settings, this instrument is extremely easy to use. The device is equipped with a number of triggering options to locate the cause of the fault more quickly. A USB II interface is available to transfer the data.

In the case of power failure, operation is maintained via an integrated, uninterrupted power supply.

**Two measurement functions** are available. **PQ-Box 100 light:** this device is suitable for power analysis and voltage-quality analysis according to EN 50160 and IEC61000-2-2.

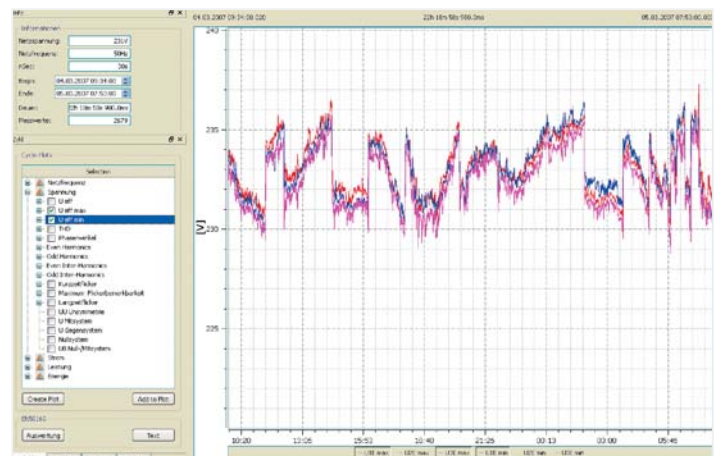
**PQ-Box 100 expert:** this version has additional, comprehensive trigger options. These can record fast oscilloscope traces and 10 ms r.m.s. values.

The light version can be easily upgraded via a license.

Robust mechanical construction and the absence of rotating parts (fan or hard drive) make the PQ-Box 100 suitable for the toughest applications.

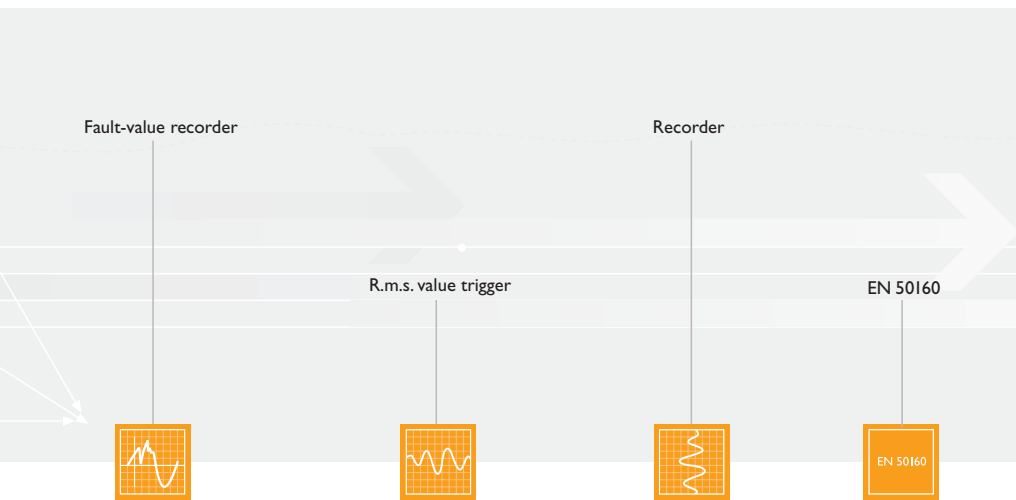
The device is equipped with a large, 512 MB memory. Thus, measurement values can be stored for up to one year.

In the case of power failure, an internal UPS ensures voltage supply. This can be supplied via the measurement cables or externally.



# A little something for the great outdoor ...

The ideal addition to our tried and tested PQI-D: the mobile PQ-Box 100



Power-Quality

The **display** provides information about correct measurement cable and current clamp connection, and shows the on line-data for voltage, current, THD and power. The number of events that have occurred and the recorded measurement duration are also displayed for the user.

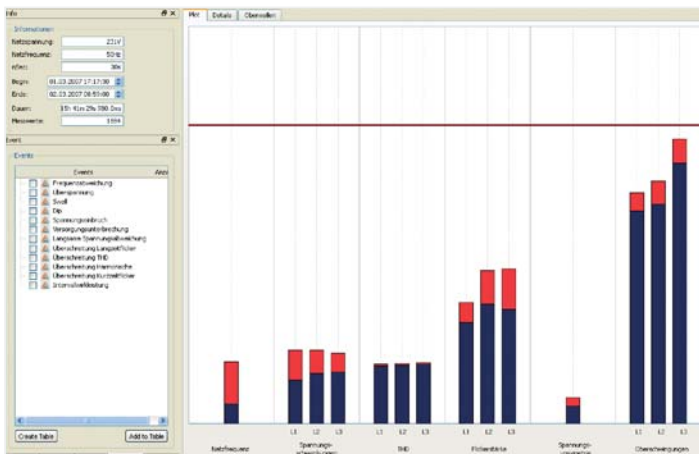
Measurements are started and stopped via the **Start/Stop button**. An unlimited number of measurements can be made consecutively, without needing to output previous ones first. The **manual trigger**

**button** enables recording of the current network status of a system in the form of an oscilloscope trace and 10 ms r.m.s. values. Two additional buttons can be used to scroll the display and adjust the settings of the device (e.g. transformer configurations of current and voltage transformers in medium or high voltage networks).

**Recorded data** is transferred to the PC via a fast USB interface. During readout, the device is supplied with power via the USB interface.

Comprehensive, practice-oriented evaluation software is included in the scope of delivery. This can be installed upon any number of PCs. The software offers numerous evaluation options, such as load analysis, trouble-shooting in the network, automatic EN 50160 reports, and comprehensive online functions. Updates are available via the internet, free of charge.

The **accessories** are also well designed and easy to use: the PQ-Box 100 detects the connected current-clamp set via a coding in the plug, and sets the correct measurement ranges. The device does not need to be informed of the transformer mounting ratio.



## Hardware versions

### PQ-Box 100 (4U/4I) version

4 voltage inputs:	L1, L2, L3, N; 480V conductor-earth; 800V conductor-conductor
4 current inputs:	Mini current-clamps; Rogowski current-clamps
Memory:	512 MB
Interface:	USB II
Dimensions/weight:	220 x 146 x 57 mm / 1.7 kg
Degree of Protection:	IP 65
IEC 61000-4-30:	Class A
Accuracy:	< 0.1%
Power consumption:	< 8 VA
Installation Category:	CAT IV
Converter:	24 bit A/D
Interface:	for DCF 77 and GPS radio clock
Climatic stability/temperature range:	Operation: -20° to 70° Storage: -30° to 80°
Power supply:	Internal UPS if power supply fails
Display:	illuminated
Supply:	optional, via measurement cables or externally

### PQ-Box 100 (3U/4I) version

3 voltage inputs:	L1, L2, L3, N;
	Technical data identical with 4U / 4I

Your sales partner



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