

PQ-Box 100

a-eberle
GLOBAL NET QUALITY



THE EXTREMELY ROBUST NETWORK POWER ANALYSER



The **PQ-Box 100** is a high performance portable network analyser, power meter & transient recorder in one instrument. The focus of A-Eberle's development was user-friendliness.

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

The PQ-Box has been developed for mobile operation (degree of protection IP65) 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 case of power failure, operation is maintained via integrated, uninterruptible power supply.

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 **512MB 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.

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 to 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 10ms r.m.s values. Two additional buttons can be used to scroll the display and adjust the settings of the device (e.g. transformers in the medium and 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-orientated **evaluation software** is included in the scope of delivery. This can be installed upon any number of PC's. 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.



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