

# ELCOMPONENT

## PQPro Power & Energy Analyser

### Product Overview

The PQPro Power Analyser offers a wide range of measurement capabilities to assess power quality parameters such as voltage, current, frequency, harmonics, and power factor. With high accuracy and sampling rates, it provides detailed information about waveform distortions, voltage sags and swells, transients, and other power anomalies.

The **PQPro™** is the third generation of power quality analysers developed by Elcomponent for the measurement of power quality and power system diagnostics.

From the instrument's front panel or **PV II™** software, you can view:

- AC and DC Voltage, Current, Power and Frequency
- Waveforms, harmonics and vector diagrams for both voltage and current
- Three phase voltage and current unbalance
- Voltage sags and swells
- High speed voltage transients
- Current inrush
- Flicker (IEC 61000-4-15)
- Power Quality (IEC 61000-4-30 Class A)



### Key Features

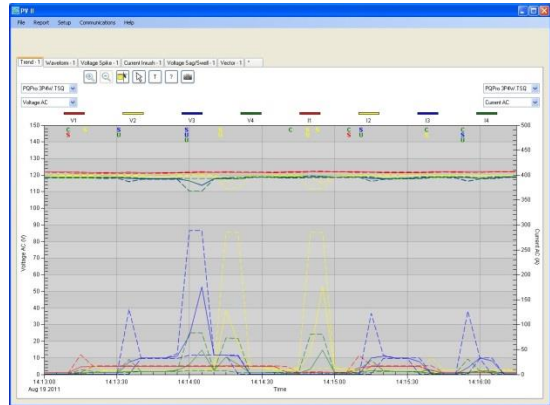
- **Real-Time Monitoring:** Equipped with a large LCD screen and intuitive interface, the PQPro allows users to monitor power quality parameters in real-time. Instantaneous readings, trends, and waveforms are displayed, enabling quick detection of power disturbances and abnormal conditions.
- **Event and Data Logging:** The device captures and logs critical power events, including voltage dips, swells, interruptions, and transients. The extensive data logging capability ensures that important events are recorded for later analysis and troubleshooting.
- **Comprehensive Reporting:** Generating comprehensive reports is made easy with the PQPro Power Analyser. It automatically generates detailed reports summarizing power quality parameters, event logs, trends, and other relevant data. These reports serve as valuable documentation for compliance purposes, equipment performance evaluations, and energy audits.
- **Harmonics Analysis:** With its advanced harmonics analysis capabilities, the PQPro helps identify and analyse harmonic distortions in electrical systems. It enables users to

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understand the impact of harmonics on equipment performance, troubleshoot harmonic-related issues, and ensure compliance with international standards and regulations.

- Energy Efficiency Optimisation: The PQPro supports energy management initiatives by providing insights into energy consumption patterns.
- Designed with portability in mind, the PQPro is compact and lightweight, making it easy to carry and deploy in various locations. It features a rugged enclosure that withstands demanding environments, ensuring reliable operation even in harsh conditions.



### Specifications

- High speed voltage transient capture: 16 microseconds (60 Hertz systems) or 20 microseconds (50 Hertz systems) – waveforms with 1024 samples/cycle resolution.
- Voltage sag/swell capture – waveforms with 256 samples/cycle resolution and RMS with ½ cycle resolution.
- Current Inrush capture - waveforms with 256 samples/cycle resolution and RMS with ½ cycle resolution.
- Voltage and Current three phase unbalance.
- Voltage and Current THD.
- Voltage Flicker – IEEE 61000-4-15 PST and PLT.
- Harmonics up to the 128th.
- Inter harmonics with 5 Hertz resolution up to 7680 Hertz (60 Hertz systems) or 6400 Hertz (50 Hertz systems).
- Continuous storage mode – records all 8 channels, waveforms with 256 samples/cycle every cycle and RMS data with 200 millisecond resolution for up to 28 minutes (60 Hertz systems) or 33 minutes (50 Hertz systems). With Continuous data software can calculate Inter harmonics with 0.5 Hertz resolution or finer.
- Linear and Circular (wrap around) data storage modes for both Trend and Event data.
- AC and DC voltage and current capability on all channels. Maximum voltage 750 Vac/1000 Vdc