EPPE

POWER QUALITY ANALYZERS

Power Quality Meter / Fault Recorder / Energy Data Logger

EPPE devices are a compact and powerful class A power quality analyzers that also serves as a power meters, data loggers and transient as well as dynamic fault recorders.

Outstanding precision

Thanks to the very high sampling rate of 200 kHz and a maximum measurement error of <0.05%, EPPE devices meet the highest requirements.

Protected against supply failures

With the device's internal and maintenance-free super-cap technology, EPPE devices bridges supply voltage interruptions of up to 60 seconds. This ensures that grid faults are reliably recorded under all circumstances and stored in the device's internal data memory for later analysis.

Application examples

- ■ Power quality monitoring in accordance with EN 50160
- ■ Recording of energy data and load profiles
- ■ Energy consumption optimization
- ■ Transient recorder for detailed fault analyses
- ■ Detection and recording of grid oscillations
- ■ Recording of switching processes
- ■ Measurement of flicker, harmonics und Interharmonics
- ■ Monitoring and analysis of renewable generation plants
- ■ Grid optimization
- ■ Fault localization
- ■ Monitoring of critical loads

VDE-compliant and ideal for EEG systems

The EPPE devices RX conforms to VDE-AR-N-4110 and VDE-AR-N-4120, which makes it ideal for monitoring and compliance monitoring of EEG systems in the medium and high-voltage grid.

Automated Metering and Reporting

The associated Expert software enables fully automated and database-supported metering point operation including automated analysis and reporting.
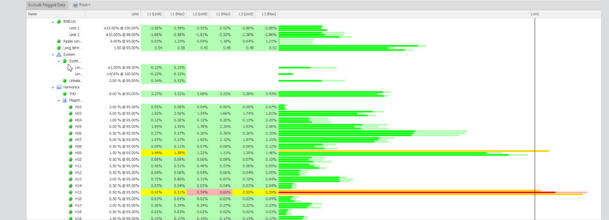
Statistical PQ-Analysis

Professional Data Analysis

The measurement data is analyzed in detail using the powerful analysis software. Extensive graphics and tables, and numerous analysis tools simplify the precise and deep evaluation of the measurement data.

Data export functions to COMTRADE, PQDIF and CSV also allow the use of manufacturer-independent analysis tools.
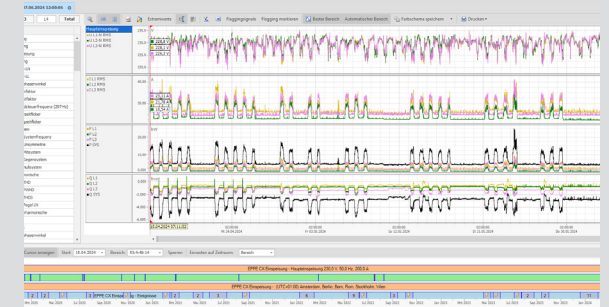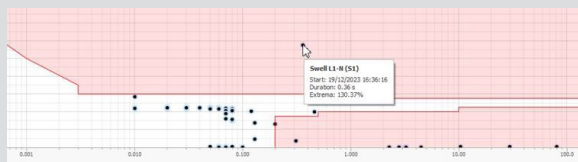
Slow fluctuation / trend graph
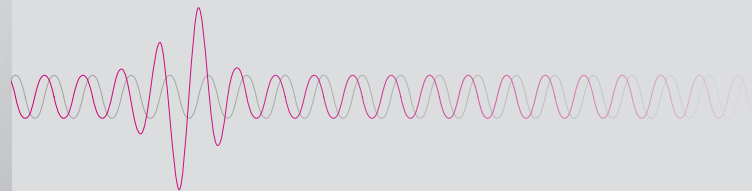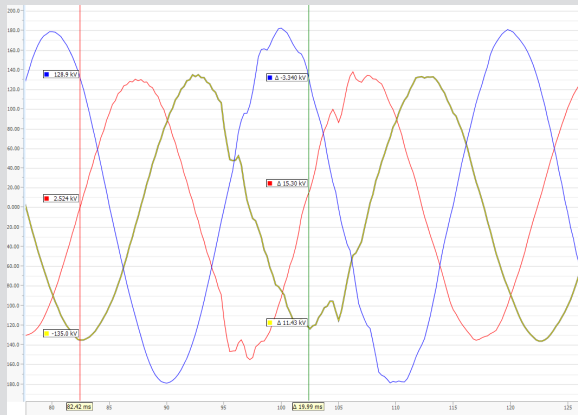
Recording of transient processes

ITIC event display

Versatile network capabilities

EPPE devices can be accessed in parallel via two independent Ethernet interfaces from two physically separated networks. These can be, for example, a highly secure internal station network and an external network for remote access.

Live measurement data can be viewed in any web browser via the integrated web server.

Third-party access

Third-party applications can be supplied with data via IEC 61850 and MODBUS TCP as well as via the device's internal (S)FTP server.

Cyber Security 🛡

Role-based access control (LDAP, RBAC)

Role-based access control makes it possible to restrict users to activities that correspond to their role in order to protect the system from unauthorized access. Users and access rights can be managed across all systems via central LDAP servers.

Encrypted data transmission

Highly encrypted data transmission makes a significant contribution to secure operation in critical infrastructure systems (KRITIS).
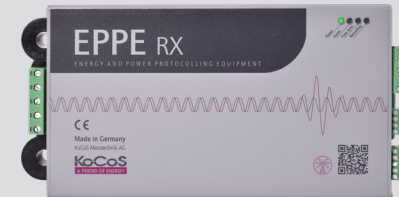
Audit logging

All security-relevant processes are logged and, if required, transmitted to a central network monitoring server using the SYSLOG protocol.

Digitally signed and encrypted firmware updates

To protect against tampering, device firmware and all update files are digitally signed and encrypted.

EPPE

EPPE RX:

- DIN-rail mounting
- 4x voltage inputs
- 4x CT through-type inputs
- 4 digital inputs, 2 relay outputs

EPPE CX:

- Panel or DIN-rail mounting
- 4x voltage inputs
- 4x CT inputs
- 4x Low voltage inputs for sensors and transducers
- 16 digital inputs, 6 relay outputs
- 1 temperature sensor input
- 5 inch Touch screen display

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A FRIEND OF ENERGY