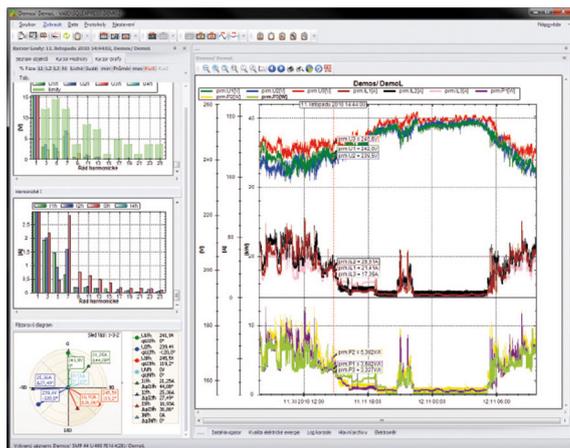


# Energy Management and PQ Analysis - ENVIS

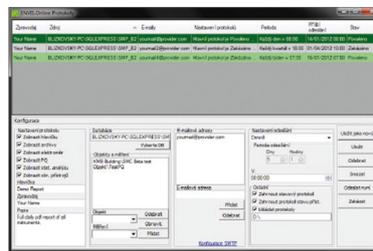
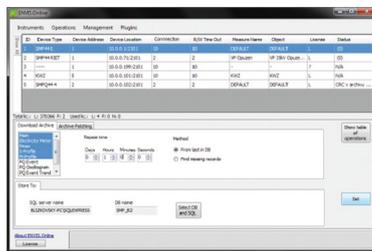


ENVIS is the convenient graphical tool for the visualisation, storage and evaluation of all measured values relating to power quality analysis according to EN 50160 and energy efficiency. It visualises the recorded measurement data from files or SQL databases.

This allows temporal assignments to events such as mains interruptions, voltage fluctuations and harmonic assessment. It thus supports actions to increase security of supply.

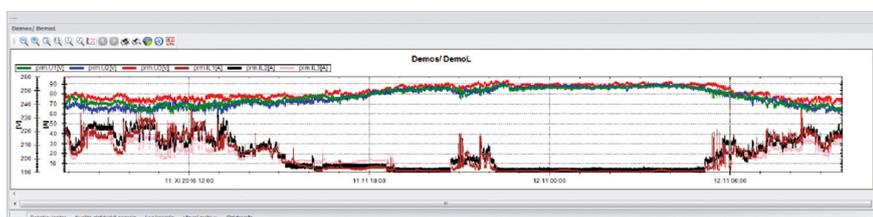
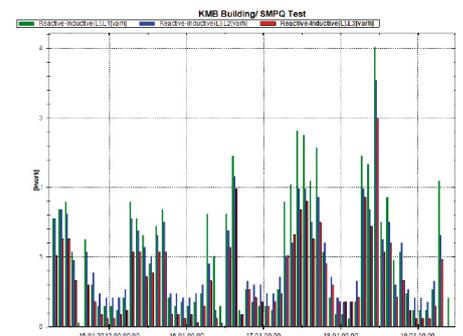


Statistical evaluations of all automatically or manually collected data can be carried out. ENVIS also has an interface with export/import function from and to Excel files. The basic version is available as a free package for monitoring energy efficiency, network quality and online/offline reading of the measuring devices. At the same time, ENVIS serves as a configuration tool for the universal measuring devices.



Envis allows measures to be taken for the optimisation of load flows and consumer behaviour. Thus, the system supports the introduction and continuation of ISO 16247 and ISO 50001 certified processes. It allows billing according to cost centres and key figures and thus provides a transparent analysis of consumption behaviour.

ENVIS is a smart building automation solution and supports operators of buildings and properties with automatic reporting. It supports all universal measuring devices and UMC reactive power controllers as well as some third-party devices with Modbus communication.



## The ENVIS installation package contains several applications:

The basic version of ENVIS is available free of charge with every device purchased or can be requested via [info@pq-plus.de](mailto:info@pq-plus.de) / [www.pq-plus.de](http://www.pq-plus.de).

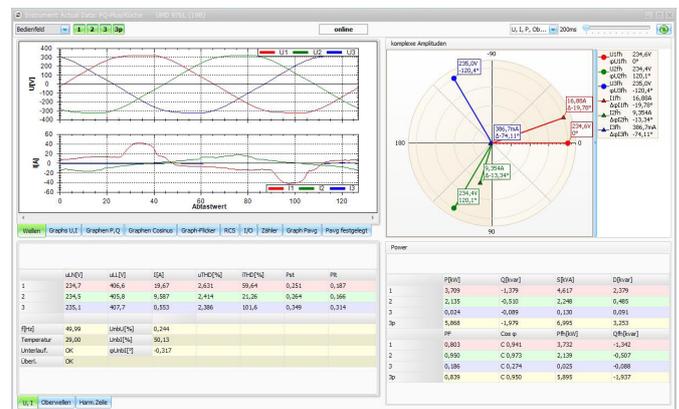
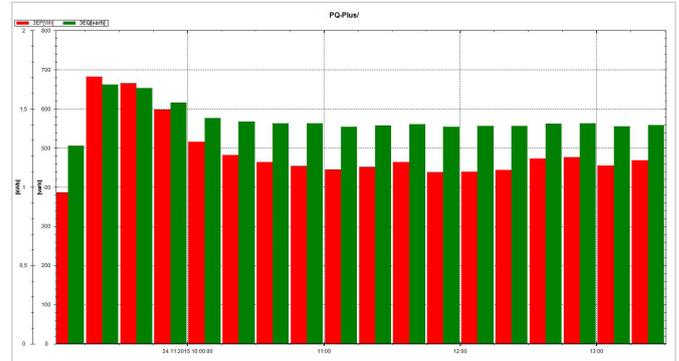
The ENVIS is used for processing and analysing the archived measurement data. Data sets can be displayed in graphs and tables, or evaluated in the predefined reports. The application supports all our universal measuring devices incl. the mobile measuring case, the reactive power controllers UMC and various Modbus devices.

### ENVIS.Daq

The ENVIS.Daq is used to configure and manage the universal measuring devices and power factor controllers. Current live data can also be displayed. The data can be downloaded to a binary file (export to .xml / .csv) or saved directly to an SQL database. ENVIS.Daq is included in the ENVIS installation.

### ENVIS.Online

ENVIS.Online is a system service that regularly reads out the universal measuring device memories from the connected devices or retrieves live data and stores it in an SQL database. Reports can be sent automatically by e-mail. The alarm management provides an alarm via e-mail. Third-party devices with Modbus protocol can also be integrated and saved.



Designation	Number of devices	Function	Additional functions	Item number
ENVIS - Basic	unlimited	Device configuration, data recording, measurement data management, reports, power quality evaluation according to DIN EN 50160, virtual devices	-	52.11.1300
ENVIS - Base	unlimited	Network quality DIN EN 50160, measurement data management, data recording, historical data, evaluations, automatic reports	Histogram Scatter Plot PQ DIFF Export to IEEE Std. 1159.3 PQDIFF file	52.11.1301
ENVIS.Online Licence	per device	Licence for a measuring device with integrated memory for automatic readout or online recording of the measurement data	-	52.21.1341
ENVIS.Online General licence	unlimited	Licence for an unlimited number of measuring devices with integrated memory for automatic readout or online recording of the measurement data	-	53.21.1350