# POWER*Studio* DAQ-Software

The measured values recorded by the **POWER***Analyzer* LK601 are visualized and processed with the modern PC software **POWER***Studio*. The software is used to configure the power analyzer. Its user-friendly interface allows to create own calculation definitions, set up individual views and easily visualize recorded CAN bus data. All settings and data can quickly be saved and exported. As often forgotten settings in the various submenus of the devices can lead to unexpected results, by simply saving the settings, the susceptibility to errors in the overall process is significantly reduced with the help of **POWER***Studio*.

Continuous improvements and development can easily be applied by remote updates of firmware and user software.
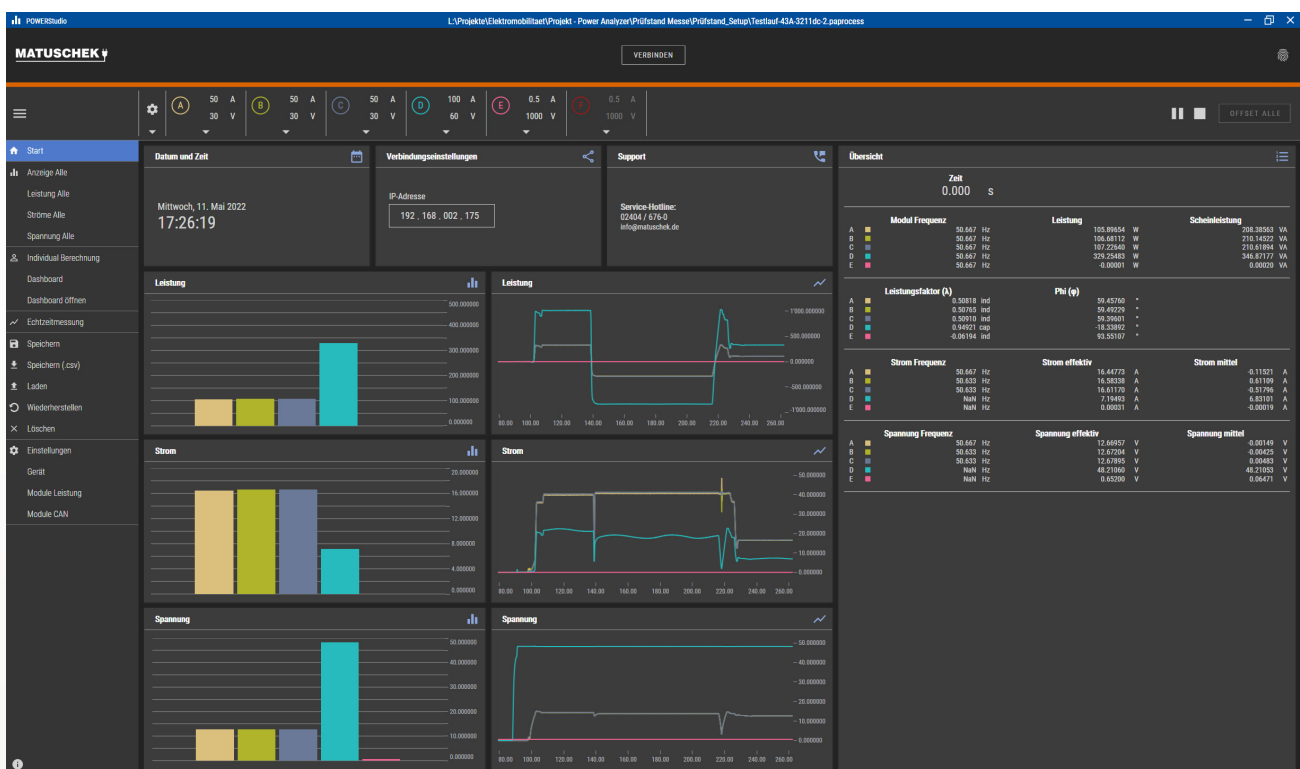
Homescreen **POWER***Studio*

A highlight is the real-time data acquisition. With this feature, the data can be recorded and displayed in real time, similar to an oscilloscope. Dynamic waveforms can be captured and displayed up to 10 MS/s. Therefore, even highly dynamic signals can be visualized with high resolution.

At the same time, the high sample rate enables a frequency analysis of the data using an integrated FFT which is particularly helpful to determine filter settings.

When developing new control strategies, the use of a high-tech and expensive oscilloscope is therewith no longer necessary.
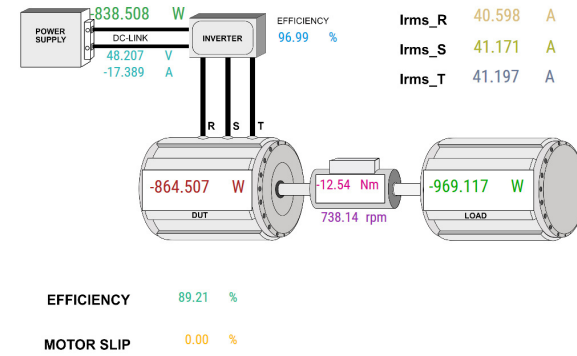
Real-time Data / FFT-analysis

- up to 10 MS/s sampling rate
- parallel acquisition of up to 6 channels
- FFT-analysis integrated
- save / load and export capability for raw data
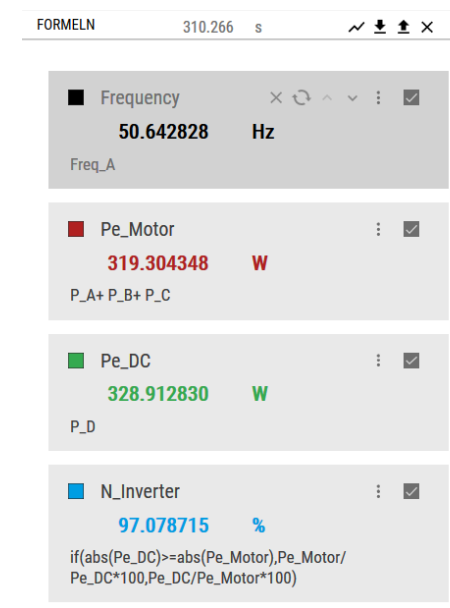- online analysis and math tools at hand
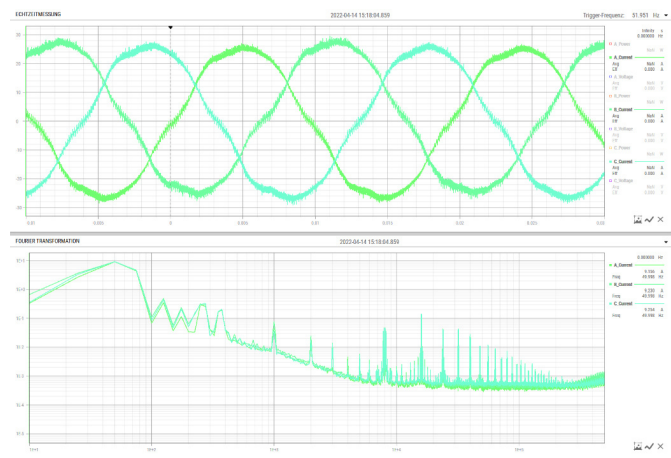
Custom Dashboards

- creation by drag&drop
- individual assignment of data
- linked analysis functionality
- multi-screen option
- custom formatting

Custom Calculation

- own formula definitions
- live and post processing
- electrical-, CAN- or formula-data can be combined
- access to various math functions
- scripting functionality
- custom formatting for display purpose
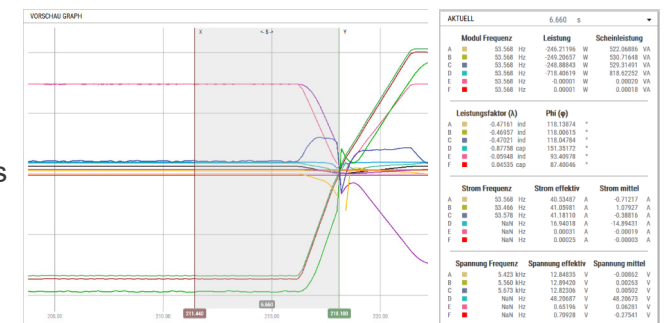- limit value options
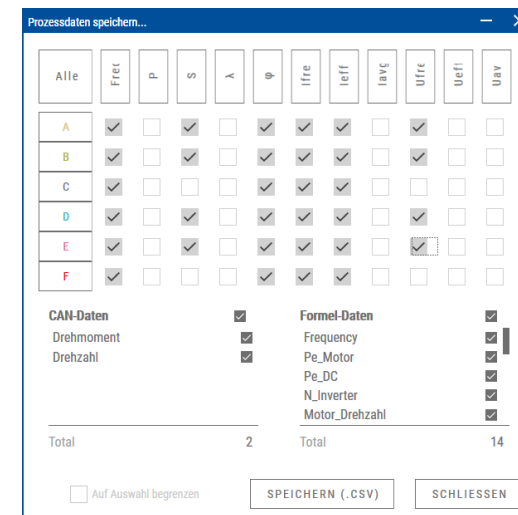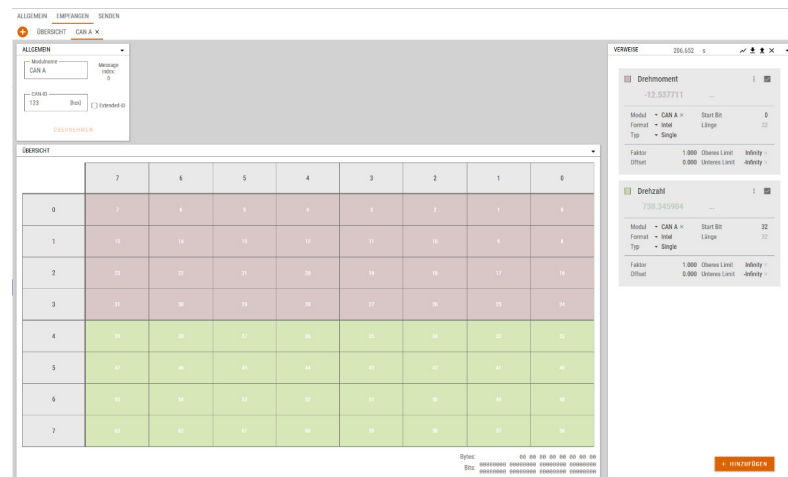
Parallel Operation via SCPI

Evaluation Tools

- 2D & 1D zooming
- parallel linked zooming
- cursor markers
- window averaging tools

CAN Integration

- up to 32 CAN-filter
- application wide use of CAN-data
- offset and factor for message is easily configurable
- receive and transmit options
- combine CAN-data with all other recorded data

Data Export

- save data as CSV or RAW
- when saved as RAW-data, all application & measurement settings are included with the captured data in one file
- export wizard to prepare data for further manipulation in Matlab/Octave/Excel
- selective saving
- automatic backups

POWER*Studio* Overview

Benefits

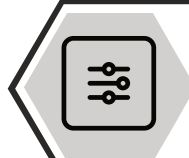**User Friendly**
- Easy setup and use
- Clear Layout

Multi-Lingual
- German, English, Chinese
- Others on request

Fully Responsive
- Adjustable on any Screen
- Resolution independent

Highly Customizable
- User Controls, Graphs, Colors
- Names, Analysis, Data, Limits

Multi Monitor
- Best Experience with >= 2 LCDs
- Multi-Dashboard ready

High-Performance
- GPU assisted Visualization
- Millions of Data displayable

PC Hardware Requirements

	Minimal	Recommended
CPU	Intel® - or AMD-Processor 64-Bit; 2 GHz or higher	
OS-System	Windows 10 (64 Bit) Version 1809 or higher; LTSC-versions are not supported	
RAM	8 GB	32 GB
GPU	Onboard	DirectX-compatible GPU with min. 2GB VRAM
HDD	2 GB of HDD memory	2 GB of SDD memory
Display	1 LCD	2 LCD or more
Resolution	1920 x 1080 p	2560 x 1440 p