MAVO**WATT | 20**

Energy and Power Analyzer

Features

- 4 voltage inputs up to 600 V RMS, 4 current inputs
- Intuitive operation with color touch-screen
- Harmonic analysis up to the 63rd harmonic
- Automatic limit value settings
- Built-in uninterruptible power supply battery for up to 3 hours of operation

Description

The MAVOWATT 20 is a high performance, but nevertheless easy to use measuring instrument for comprehensive energy and power analysis at single and 3-phase energy systems.
It's extremely well suited for testing energy saving systems, acquiring energy consumption values and costs, determining the efficiency of photovoltaic inverters, and for harmonic analysis.

You can create test reports quickly and automatically with the help of free EPRW software, which can be exported to Excel or Word by simply pressing an key. Furthermore, the MAVOWATT 20 supports the calculation of CO_2 footprints and energy costs by tariff zone.

The MAVOWATT 20 is equipped with a large, color touch-screen. The various measuring functions can be selected directly with the respective icons. Intuitive user prompting is available in German, French, Italian and English.

The measuring instrument automatically detects mains parameters and electrical circuit type. The user can specify the utilized type of monitoring with automatic or manual limit value definitions by means of menu driven functions.

Acquired data are saved to CF memory cards. Optional communication is possible via RS 232, Ethernet or USB.

High performance EPRW software is included as a standard feature, which makes it possible to create energy reports or time sequences for a great variety of parameters in no time at all.

More extensive evaluations can be optionally conducted with the comprehensive analysis tools provided by DranView software.

Specifications

Language Versions
German, English, French, Italian, Spanish, Swedish, Finnish, Japanese, Chinese, Korean

General Specifications

Dimensions:	300 x 203 x 64 mm (H x W x D)
Weight:	1.9 kg
Operating temperature:	0 to +50° C
Storage temperature:	-20 ... 0 ... +50° C
Relative humidity:	10 to 90%, no condensation
System time:	Quartz movement, resolution: 1 s
Battery charger:	90 to 264 V AC / 47 to 63 Hz
Display:	LCD color touch-screen
Data storage:	Compact flash ≥ 4 GB

Optional Accessories

Current clamps:	
TR-2510A:	0.1 to 10 A, conductor dia. up to 20 mm
TR-2500A:	10 to 500 A, conductor dia. up to 30 mm
TR-2520A:	3000 A, conductors up to 135 x 50 mm
TR-2019B:	1 to 300 A, conductor dia. up to 50 mm (adapter required)
Flexible clamps:	30 to 6000 A, various dia.
Hall sensors:	150 A or 1500m A for AC/DC
CA4300LEM:	CT cable adapter
VCP4300:	Voltage cable kit
SCC-4300:	Carrying pouch
BP-PX5:	Replacement battery pack
XBC-PX5:	External battery charger

Communications Interfaces

COMM-RS232	Glass fiber to RS 232
COMM-OUA	Glass fiber to USB
COMM-OEA	Glass fiber to Ethernet
DRAN-VIEW	Software analysis and visualization

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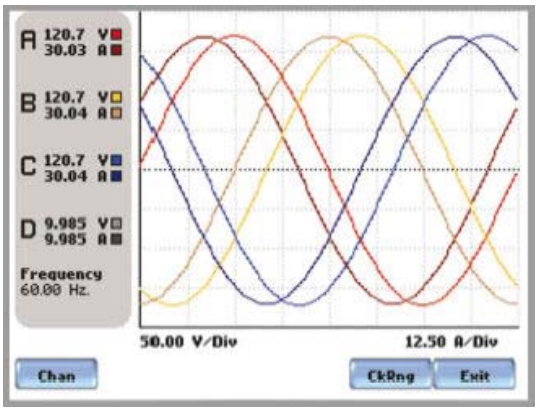
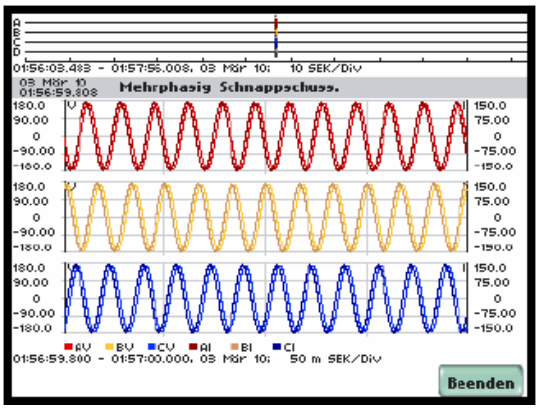
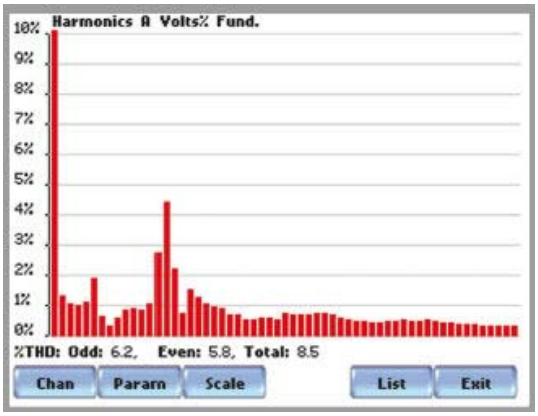
Oscilloscope Mode
In the oscilloscope mode, all 8 channels are graphically and numerically displayed, phase locked. Direct voltage level can also be measured and monitored at all channels.

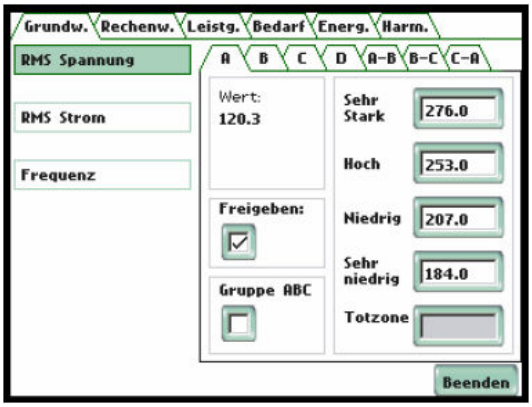




Acquired and Saved Results
Saved results can be graphically displayed as waveforms or RMS value curves. They're furnished with a precise time stamp.

Harmonic Analysis Up To the 63rd Harmonic
The instrument acquires integer harmonics as well as sub-harmonics up to the 63rd harmonic, and displays them as a spectrum.





Automatic or Manual Limit Value Settings
The configuration of the circuit connected to the instrument is detected automatically. Based on momentary measured values, limit values are set automatically for subsequent monitoring, and can be manually changed if desired.

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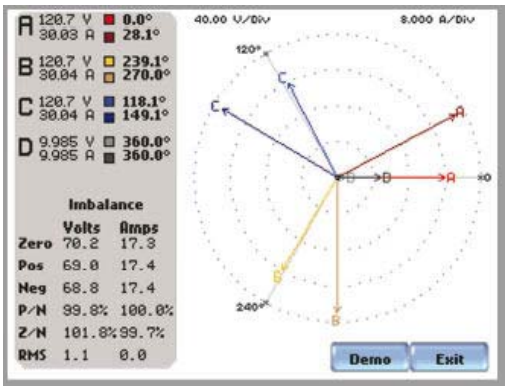
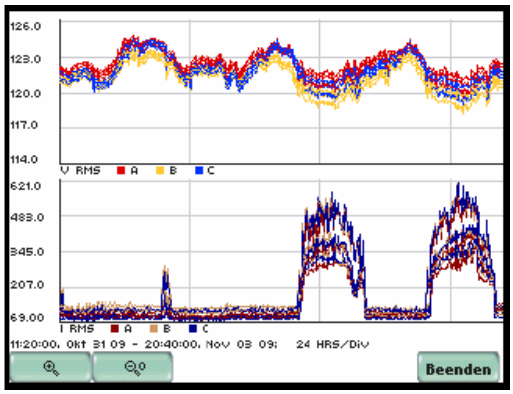


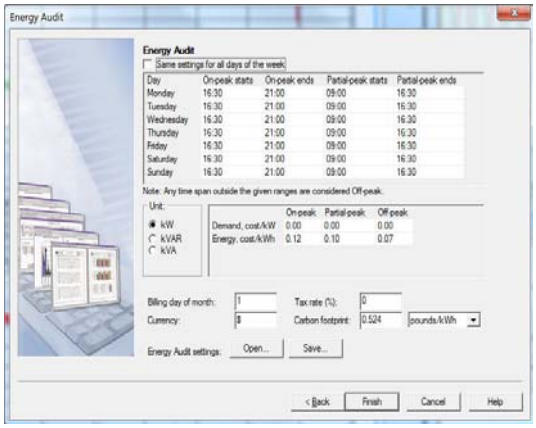
Phase Vector Display
This display provides a quick overview of phase relationships amongst the individual phases, as well as between the voltage and current channels. It's very well suited for testing current clamp polarity.

Status Display During Monitoring
This view can be displayed any time during monitoring. In addition to momentary measured values, supplementary information is also provided such as power demand, load peaks, costs and CO_2 footprint.
Measured quantities appear in color coded fields that change color like a traffic light when parameters are exceeded.



Energy Monitoring and Recording
Energy costs are rising in all areas. Reduced energy consumption in production is becoming a more and more urgent task. The MAVOWATT 20 allows for detailed recording and analysis of energy consumption over long periods of time. Excessive peak loads at certain times of day are thus easy to detect and document.

License-Free Energy Platform Report Writer
This software is provided with each MAVOWATT 20 and summarizes measurements in configurable, easy to read reports. Characteristic curves for voltage and current, active, reactive, and apparent power, power factor, harmonics, import, energy and many other parameters can be summarized in a user configured report. If the automatic function is used, EPRW quickly generates a report without the need for any settings.



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Technical Specifications

Measurement Inputs
4 voltage inputs, 1 to 600 V RMS, AC/DC, 0.1% rdg.,
256 samples per period, 16 bit ADC
4 current inputs, 1 to 6000 A RMS, AC/DC, 0.1% rdg. + CTs,
256 samples per period, 16 bit ADC

Frequency range: 45 to 65 Hz
Phase lock loop

Types of Monitoring
EN 16001 energy management system

IEC 61000-4-30, class B

Long-term monitoring with min., max. and mean values
Continuous data recording

Distortion / Power / Energy
THD / harmonic spectrum (U, I, P),

TID sub-harmonics / sub-harmonic spectrum
(U,I) up to 63rd per IEC / EN 61000-4-7

Crest factor, K factor, transformer derating factor,
telephone interference factor
Asymmetry (max. deviation of RMS value) and
sequence components

W, VA, VAR, TPF, DPF, consumption, energy etc.

Scope of delivery
Basic instrument with rubber holster and calibration certificate, battery charger, voltage measurement cable with alligator clips, memory card ≥4 GB and EPRW software

Packages
With 4 additional current clamp sensors or flexible current sensors (depending on the package), carrying pouch

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