



# Introducing the new Power Network Analyzer Unilyzer 902



## Why introduce a new Power Network Analyzer?

Since many years, Unipower has been known to listen to customers demand. Our customers are asking for a dust and waterproof IP-65 sealed instrument without any moving parts that can measure all EN 50 160 parameters simultaneously for a long time. As a result of this, a completely new powerful platform - Unilyzer 902 - for advanced Power Monitoring has been developed. This new platform is based on latest technology available in order to give maximum prestanda at a very economical price. Unilyzer 902 is designed to work anywhere such as in utility substations, telecommunications facilities, factories or commercial buildings. To meet the new communication trends, Unilyzer 902 has flexible communication possibilities. You can choose between ordinary RS-232, the built-in modem or Ethernet. This makes the Unilyzer 902 a perfect choice both as a portable and as a semi-permanent instrument.

## Easy to use - easy to install - easy to carry

A lot of work has been focused to design a system with a maximum of flexibility which is also easy to use and easy to install. We offer you a complete package including the measure unit, the transducers and all necessary software carried in a special designed carrying case. On site, a Unilyzer 902 is up and running in minutes.

## Unilyzer 902 as a powerful Real-time instrument

Connect the Unilyzer 902 to a (portable) PC and you will have the most powerful real-time instrument available for power quality analysis. All measure parameters are displayed and updated several times per second. The real-time mode also include a eight-channels oscilloscope and a spectrum-analyzer showing the harmonics.

## What does the Unilyzer 902 measure?

Thanks to the powerful DSP-technology Unilyzer 902 measure all periods without timegaps. To ensure highest possible accuracy the Unilyzer 902 has also a built-in hardware PLL (Phase-Locked-Loop) locking to the fundamental. Unilyzer 902 measures simultaneously voltage, current, power, energy and all power quality parameters. Connecting Unilyzer 902 to a (portable) PC and you have the ultimate real-time instrument including eight channels oscilloscope and harmonics graphs.

### Basic measure parameters:

RMS Voltage, RMS current, power (kW, kVA), energy (kWh, kWhr), PF, cosfi

### Power Quality parameters:

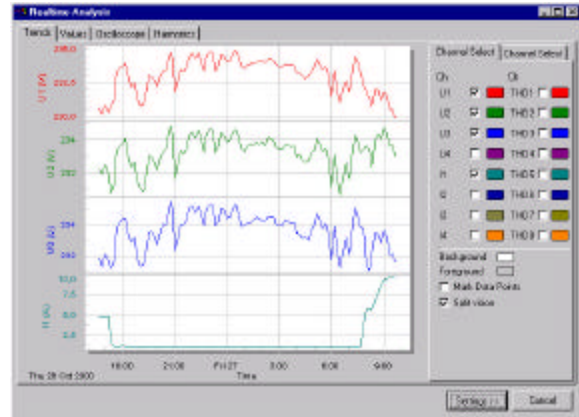
Harmonics (IEC 1000-4-7), THD, flicker (IEC 1000-4-15), frequency, unbalance.

### Disturbances:

Four independent channels capturing sags, swells, event capturing, fast transients (1us), interruptions, frequency deviations simultaneously.

## The unique Trend-graph

Unilyzer 902 is equipped with a built-in trend-graph showing the last 24-hours of all measured parameters and events without transferring any data to the host computer.



## Software for evaluation

Unipower offer two softwares for evaluation of measured data - PowerProfile and Unipower Report. PowerProfile gives you all information about the measured parameters in graphical form. Unipower Report evaluates a measurement according to recognized standards such as the EN 50 160 and automatically produce a report. Another possibility to evaluate measure data is to import the data to a standard spreadsheet such as Microsoft Excel etc.

## Technical Specification - Unilyzer 902

Analogue inputs: .....8 differential inputs (4xU, 4xI)  
Input impedance: .....10 Mohm  
Accuracy: .....max 0.1% error excl. transducers  
Sampling frequency: .... up to 7,7 kHz  
Dynamics: .....84 dB (90 dB)  
Storage interval: .....Selectable  
Storage capacity: .....4 MB non-volatile (8 MB optional)  
Communications: .....RS-232, built-in modem, Ethernet (optional).  
Power supply: .....85-264 VAC (47 to 70 Hz).  
Weight: .....1.5 kg  
Size (WxDxH): .....330x240x85 mm  
Operating temperature: 0°C - + 55°C  
Relative humidity: .....10% - 98%, non condensing  
EMC: .....Complies with EN 50 081-1,2; EN 50 082-1,2  
Personal safety: .....EN 61 010-1 (IEC 1010-1)  
Sealing: .....IP-65. Dust and splash proof.

## Data Storage and Real Time Capabilities

Measured values are stored in a non-volatile flash memory. The system does automatic statistics like average, minimum and maximum values as well as cumulative probability analysis for harmonics and flicker. After a measurement, transfer your data to a PC for evaluation in the analysis software PowerProfile for Windows or export your measurement to Excel or other evaluation software. Unilyzer 902 can also be connected to a PC for powerful real time analysis.

## Operation

You set up the Unilyzer 902 with a standard PC either on site or at office. The software is well known for it's ease of use, only a few steps are required to program the system. Start and stop the measurement on site by pressing one single button. An indicator on the front panel shows when the unit is measuring.

## The standard package

Unilyzer 902 is delivered as a complete system in a special designed carrying case. The package contains the measure unit, 3x500 A Rogowski coils, 3x500V voltage transducers, Powerprofile evaluation software and manuals.

## Available accessories

Even tough we have designed a complete package, transducers with other ranges, safety probes and other accessories are available separately. Contact your local dealer for a complete list.

Your local dealer:

Unipower AB, Metallgatan 2-4, Box 411, SE-44128 Alingsås, Sweden  
E-mail: mail@unipower.se, Phone: +46 322 638020  
Fax: +46 322 638060, http://www.unipower.se

