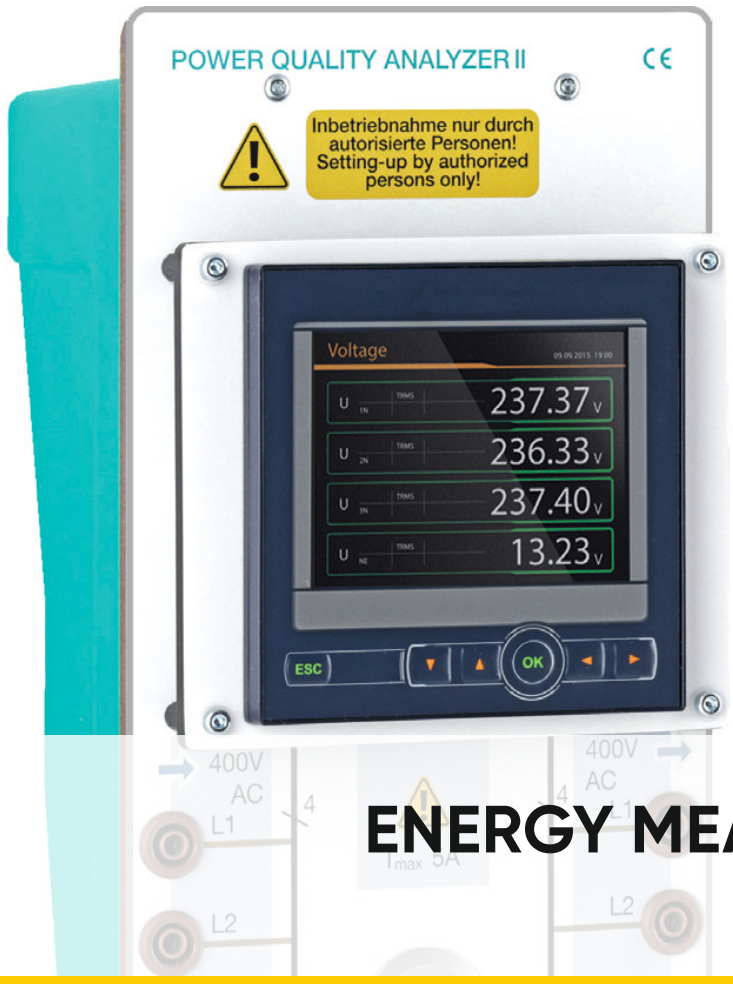
Sistemi di misurazione dei parametri legati all'energia

Analizzatori di Qualità per la Potenza II

ETS DIDACTIC



ENERGY MEASUREMENT

Power Quality Analyzer II

another way to care

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Intelllgent measurlng technology

Power Quality analyzer II

Power measurement Device / network analysis Device

1

Learning objectives:

- Determination of essential electrical parameters as active, apparent and reactive power (of e.g. light fittings)
- measurements of the network load caused by harmonics (3-phase presentation)
- Measurements of power factor Lambda and cosϕ
- Determination of electrical parameters of electric motors
- use and application of energy meters
- energy study of various consumers
- Vectorial presentation of the three-phase system
- oscilloscope function for voltage and current

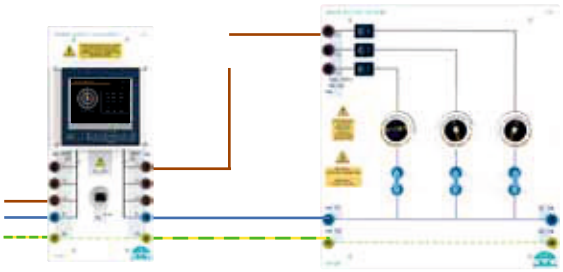
Technical data

- t est voltage 0 – 600 V ac, max. 5 a
- operating voltage 230 V ac
- lan interface
- Integrated oscilloscope function
- Webserver
- modbus IP - interface

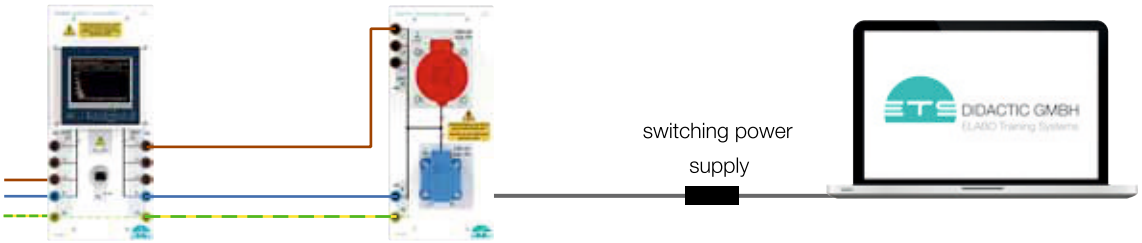
No.	Description	Order No.
1	Power Quality analyzer II	40307

Intelllgent measurement technology

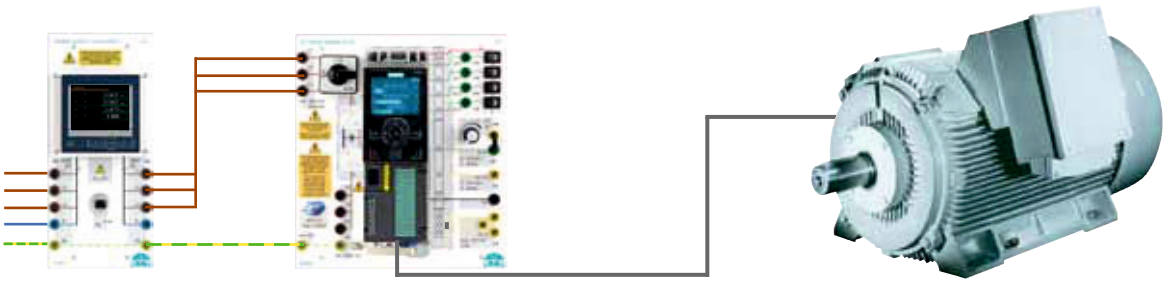
Possible applications



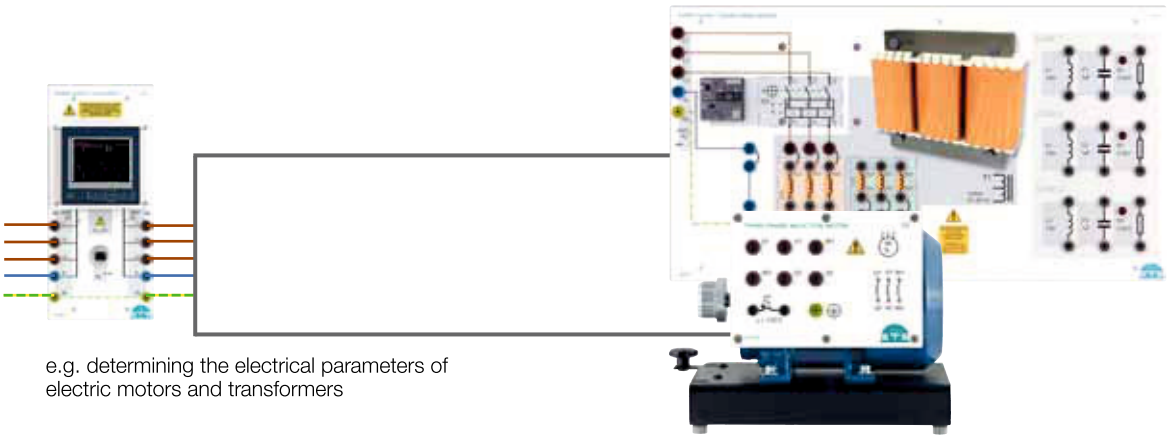
e.g. measuring von active power, reactive power und apparent power of light fittings



e.g. measuring the network load caused by harmonics and produced by the switching power supply of the laptop



e.g. measuring the power factor Lambda and cosφ when operating a frequency converter



e.g. determining the electrical parameters of
electric motors and transformers

Possible Indications on the Display

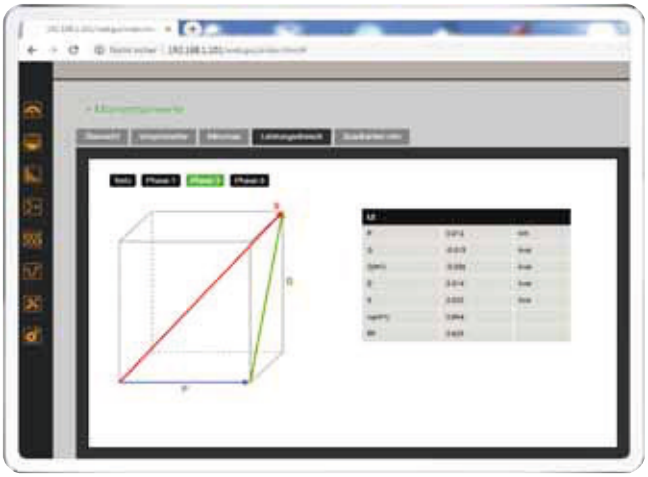
Vector diagram – three-phase system

Display of power performance

Webserver for Visualisation of the measured Values

curve shape display of
current and voltage (L1, L2, L3)

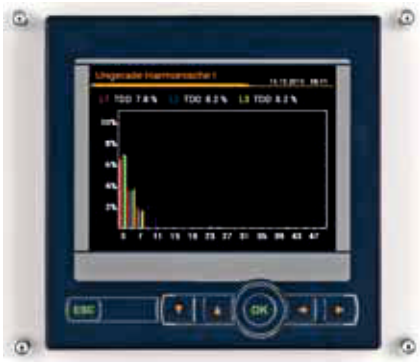
Display of the instantaneous values of
current, voltage, power



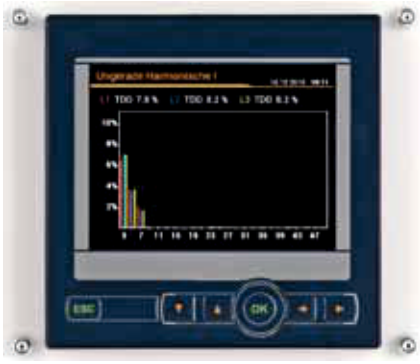
Display of the performance triangle
in case of a consumer with harmonics

Display of the performance triangle
in case of a linear consumer

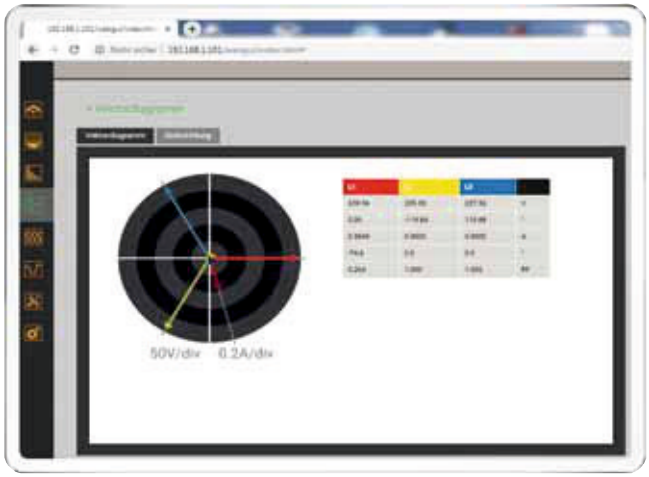
Display of voltage
harmonics



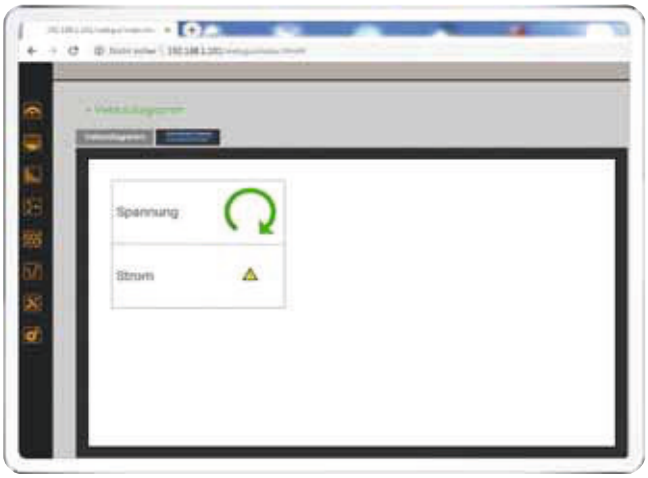
Display of current
harmonics



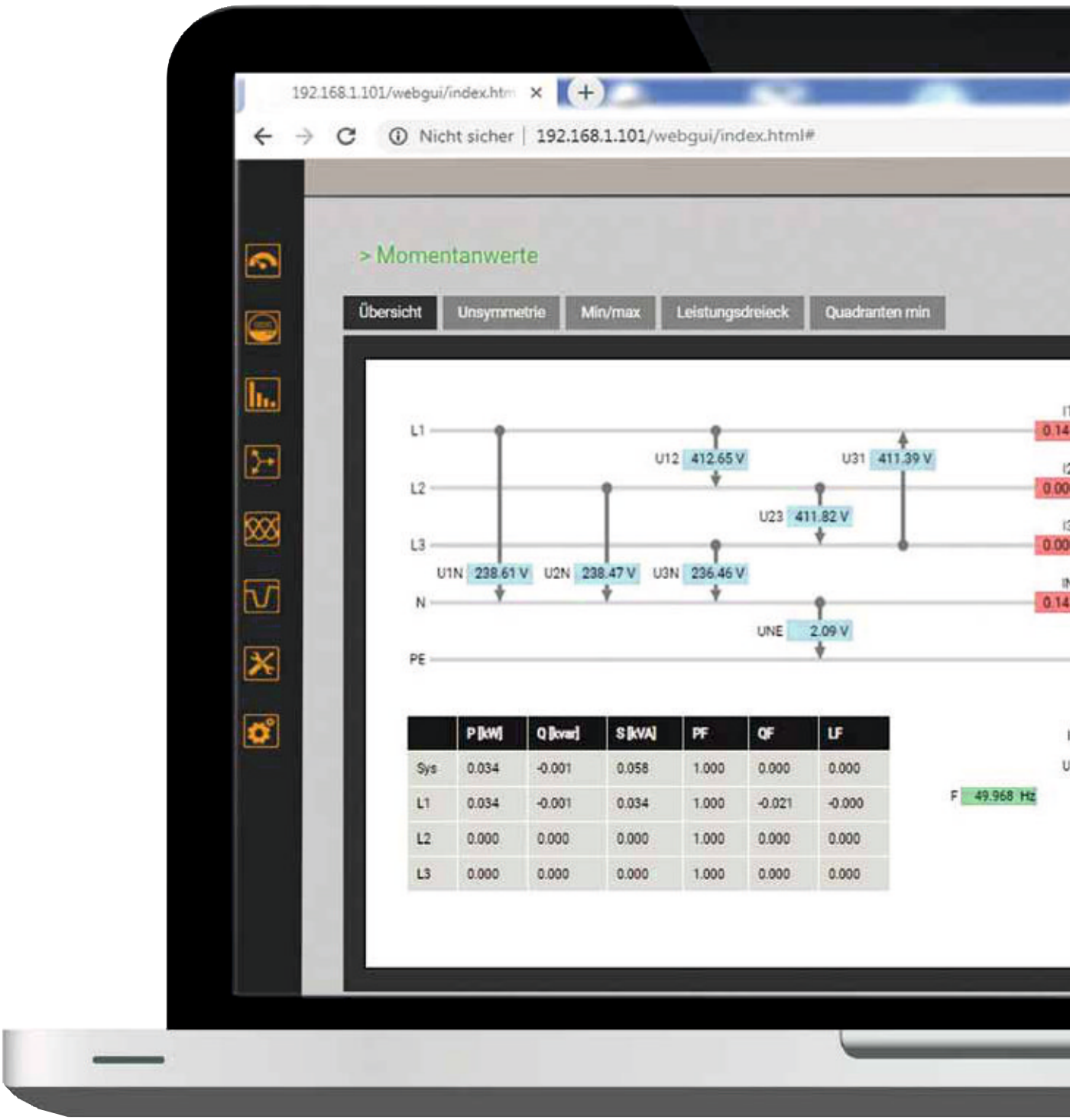
more webinterface displays



Display of the vector diagram of an inductive consumer, e.g. fluorescent lamp



Display of the rotary field


192.168.1.101/webgui/index.htm
Nicht sicher | 192.168.1.101/webgui/index.html#
> Momentanwerte
Übersicht
Unsymmetrie
Min/max
Leistungsdreieck
Quadranten min
L1
L2
L3
N
PE
U12 412.65 V
U31 411.39 V
U23 411.82 V
U1N 238.61 V
U2N 238.47 V
U3N 236.46 V
UNE 2.09 V
F 49.968 Hz
P [kW] Q [kvar] S [kVA] PF QF LF
Sys 0.034 -0.001 0.058 1.000 0.000 0.000
L1 0.034 -0.001 0.034 1.000 -0.021 -0.000
L2 0.000 0.000 0.000 1.000 0.000 0.000
L3 0.000 0.000 0.000 1.000 0.000 0.000

Intelllgent measurement technology

Webserver for Visualisation of the measured Values

control via iPad®

41053 communication center 40307 Power Quality analyzer

control via Pc

Webserver

the webserver can be used for presenting and recording relevant parameters of the Power Quality analyzer II in tables, data loggings and bar charts by:

⟩ Pc
⟩ Projector
⟩ iPad
⟩ smartphone
⟩ Whiteboard

additionally, complex interrelations of currents, voltages, types of power (apparent power, active power, reactive power), cosφ and harmonics are represented graphically with well-known consumers.

the measuring device is particularly used in in experiment manuals on the subjects:

⟩ lighting technology
⟩ t ransformers
⟩ electric drives etc.

192.168.1.101/webgui/index.htm
Nicht sicher | 192.168.1.101/webgui/index.html#
> Oberschwingungen
Spannung
Strom
Ungerade
Gerade
Max. (ungerade)
Max. (gerade)
2.5%
2.0%
1.5%
1.0%
5 7 9 11 13 15 17 19 21 23 25
L1 THD 2.1 %
L2 THD 1.9 %
POWER QUALITY ANALYZER II
Voltage
237.37 V
236.33 V
237.40 V
13.23 V
ESC
OK
400V AC
L1
L2
L3
4
Imax 5A
400V AC
L1
L2

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