



MESSTECHNIK

POWER QUALITY ANALYZER



PQA7000

PQA8000

Power Quality Class A+

according to IEC61000-4-30 Ed. 3 (Ed. 4 ready)
Harmonics, Interharmonics, TDD, THD
EN50160, IEEE519, IEC61000-2-2, etc.

Supraharmonics

2-9kHz (200Hz) according to IEC61000-4-7
8-150kHz (200Hz/2kHz) according to IEC61000-4-30
500kHz Raw FFT and PLC

Grid Impedance 150 kHz

Resonance Detection up to 150 kHz / 420 kHz
Active Power Electronics Grid Connection Check

Highest Precision

0.05% Accuracy / 500 kHz Bandwidth
more than 20 measurement ranges 20mV to 1600V

PQA 7000



Accuracy	0.05%
Sampling Rate	48 kS/s
Supraharmonics	20 kHz
Resolution	24 bit
Inputs	4x Voltage, 5x Current
Voltage Range	800 V / 1600 V
Safety Category	CAT III 1000V / CAT IV 600V
Isolation	6 kV (CH - GND)
Current Input	Rogowski, Clamp (AC/DC)
Dynamic	0.5 mA to 150 kA (15x Ranges)
Clamp Power Supply	+9 V / $\pm$ 15 V
Data Storage	256 GB
IEC61000-4-30	Class A (Ed.3 and Ed.4)
Interfaces	Digital IO / CAN / RS485 / GPS LAN / WLAN / LTE / Bluetooth

PQA 8000H



Accuracy	0.05%
Sampling Rate	up to 1 MS/s
Supraharmonics	500 kHz
Resolution	18 bit
Inputs	4x Voltage, 4x to 8x Current
Voltage Range	800 V / 1600 V
Safety Category	CAT III 1000V / CAT IV 600V
Isolation	6 kV (CH - GND & CH - CH)
Current Input	Rogowski, Clamp (AC/DC)
Dynamic	0.5 mA to 150 kA (15x Ranges)
Clamp Power Supply	+9 V / $\pm$ 15 V
Data Storage	up to 1 TB
IEC61000-4-30	Class A (Ed.3 and Ed.4)
Interfaces	Digital IO / CAN / RS485 / GPS LAN / WLAN / LTE / Bluetooth

CONNECTIVITY



INSTRUMENT OPTIONS



SYNCHRONISATION



PQA8000H

- Highest Precision SYNC
- Dataoverlay Function

CHOOSE YOUR COLOUR

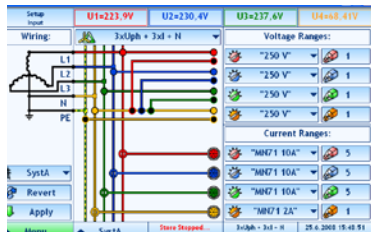


REMOTE CONNECTION

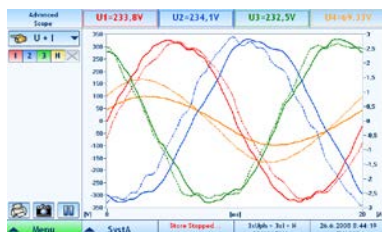
via AnyDesk®, Teamviewer®,
or any other software

SOFTWARE

Easy Configuration



Scope



Harmonic, Interharmonics, DC, Subharmonics

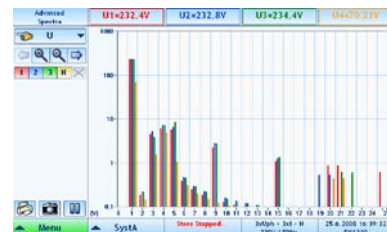


Table View

	U1=229.6V	U2=236.5V	U3=232.1V	U4=230.4V	
Phase 1	Phase 2	Phase 3	Phase N	Total	
U RMS [V]	229.6	239.8	232.6	230.3	234.0
I RMS [A]	1.869	2.059	2.017	1.013	1.990
P [W]	416.5	463.4	465.3	70.40	1,355
Q [VAR]	79.17	-170.1	-59.58	-13.72	-327.2
S [VA]	433.8	493.6	469.1	71.72	1,396
cos [-]	0.9845	0.9402	0.9963	0.9832	0.9728
f [Hz]					49.99

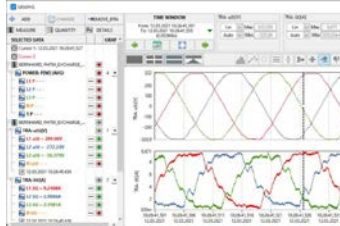
Vector Scope



Grid Impedance 150 kHz



Transients and 1/2 Period RMS

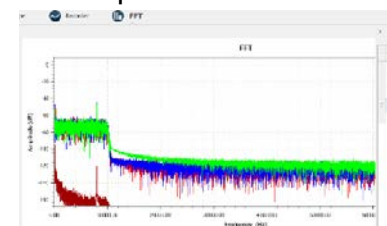


continuous storing with full sampling rate

Automatic Reporting

EN50160 / IEE519 / IEC61000-2-2 etc-

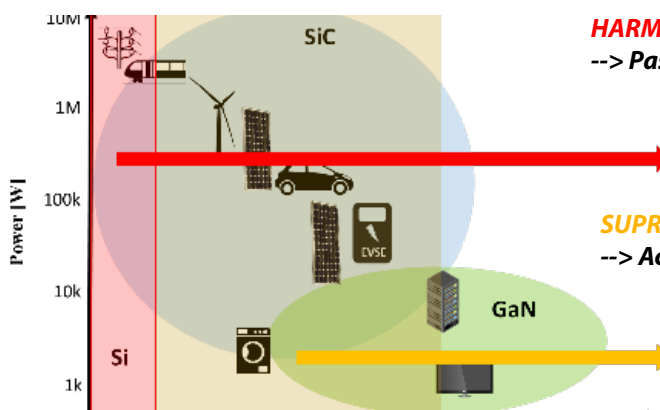
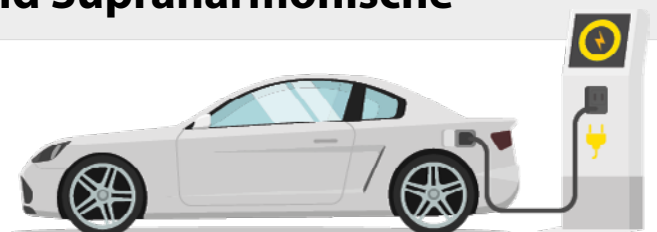
Supraharmonics



2-9 kHz / 8 - 500 kHz / Raw FFT for voltage and current

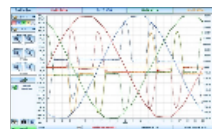
Aktive Leistungselektronik und Supraharmonische

- Harmonics / Interharmonics / THD / TDD
- Subharmonics / DC
- Supraharmonics 2-9 kHz (IEC61000-4-7)
- Supraharmonics 8 - 500 kHz (IEC61000-4-30)
- Raw FFT and PLC Digital Data Stream
- Grid Impedance up to 500 kHz



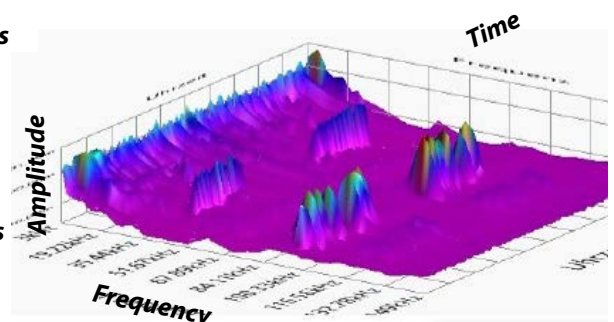
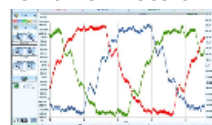
HARMONICS

--> Passive Power Electronics



SUPRAHARMONICS

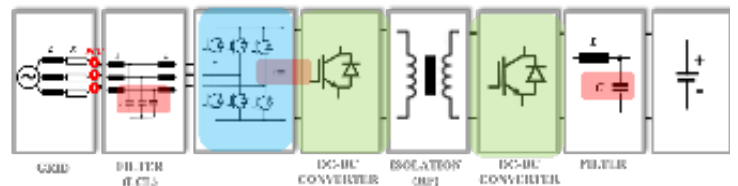
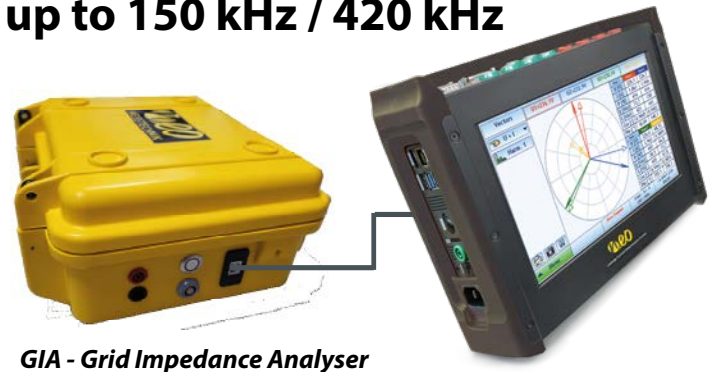
--> Active Power Electronics



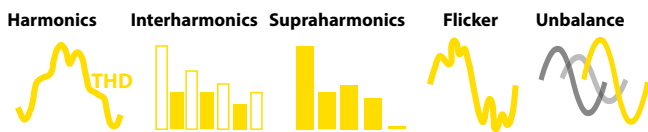
Supraharmonics 3D chart 150 kHz

Grid Impedance Measurement up to 150 kHz / 420 kHz

- Resonance Detection up to 150 kHz (Series & Parallel)
- Optimization of inverter control (Wind, PV, Motor etc.)
- Design of filter (EMC) and reactive power control
- Definition of Harmonic Emission limits



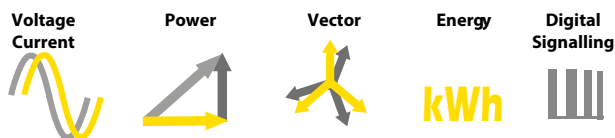
POWER QUALITY



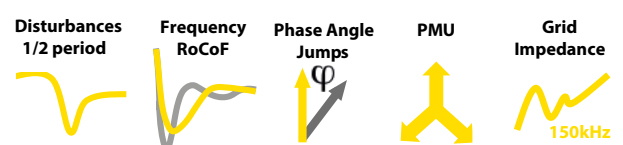
WAVEFORM & TRANSIENTS



POWER



DISTURBANCES AND SYSTEM DYNAMICS



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