



MESSTECHNIK

MOBILE POWER QUALITY ANALYZER



Power Quality



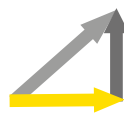
System Dynamics



Transients



Power



Grid Impedance



Supraharmonics

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

Highest Precision

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

Power Quality Class A+

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

Full Connectivity

Direct power supply for current transducers
GPS / LTE / LAN / WLAN / CAN / RS485 / DIO



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PQA 7000



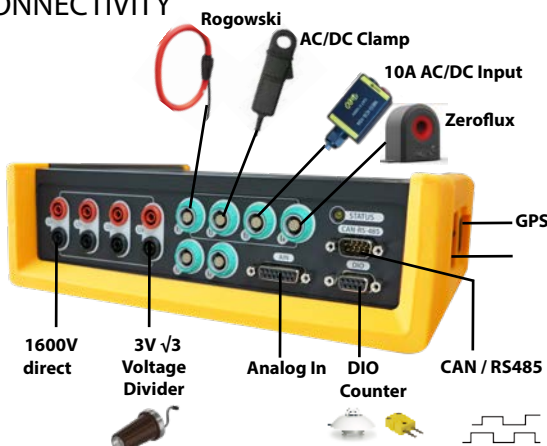
Accuracy	0.05%
Sampling Rate	48 kS/s
Supraharmonics	20 kHz
Resolution	24 bit
Inputs	4x Voltage, 5x Current
Voltage Range	800 V / 1600 V
Safety Category	CAT III 1000V / CAT IV 600V
Isolation	6 kV (CH - GND)
Current Input	Rogowski, Clamp (AC/DC)
Dynamic	0.5 mA to 150 kA (15 Ranges)
Clamp Power Supply	+9 V / ± 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 (350 kS/s 3-phase)
Supraharmonics	150 kHz / 500 kHz for PLC
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 (15 Ranges)
Clamp Power Supply	+9 V / ± 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



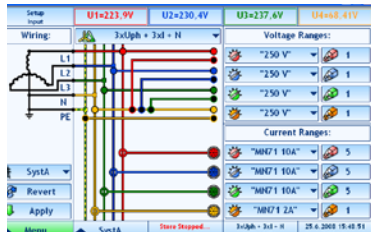
SYNCHRONISATION



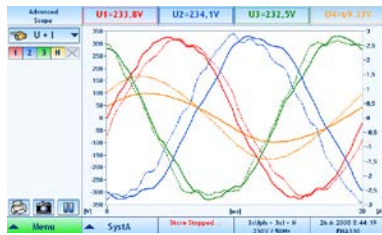
- Highest Precision SYNC
- Dataoverlay Function

SOFTWARE

Easy Configuration



Scope



Harmonics, Interharmonics

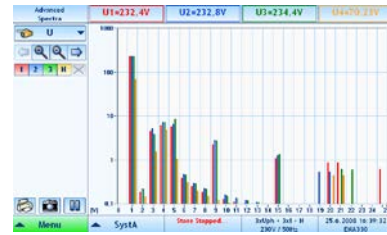


Table View

	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	70.29	234.0
I RMS [A]	1.889	2.059	2.017	1.013	1.990
P [W]	416.5	463.4	465.3	70.40	1,355.6
Q [Var]	79.17	-170.1	-19.72	-327.2	
S [VA]	431.8	492.6	469.1	71.72	1,396.6
cos [-]	0.9845	0.9402	0.9963	0.9832	0.9728
f [Hz]					49.99

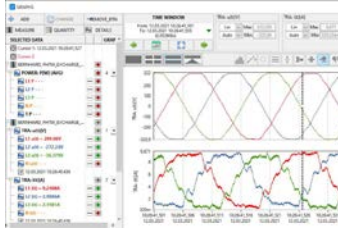
Vector Scope



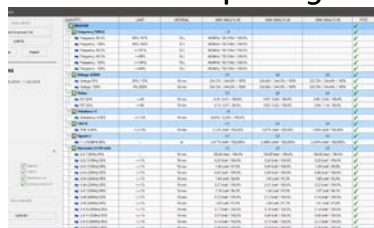
Grid Impedance



Events

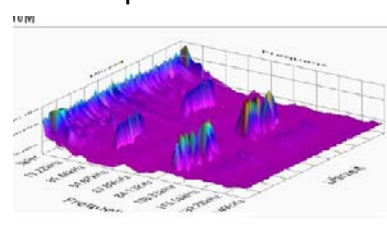


Automatic Reporting



EN50160 / IEEE519 / IEC61000-2-2 etc.

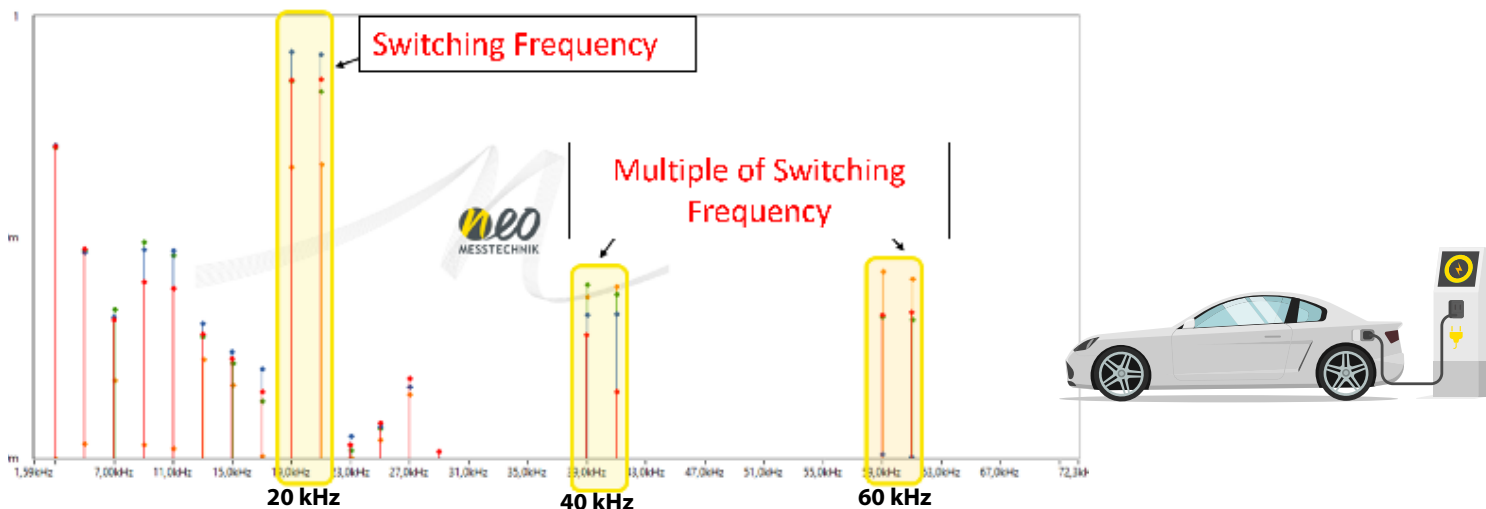
Supraharmonics



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

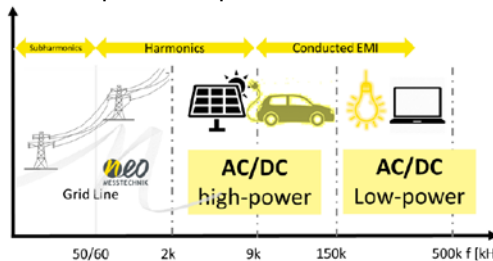
-  **EASY Remote Connection**
via AnyDesk®, Teamviewer®, or any other software
-  **Dynamic and static data**
Raw Data with sampling rate + 1/2 period values + 10 period values + 10 min average
-  **Sensor Correction**
for frequency dependent amplitude damping and phase shift

Example Supraharmonics of V2G (vehicle to grid) charger

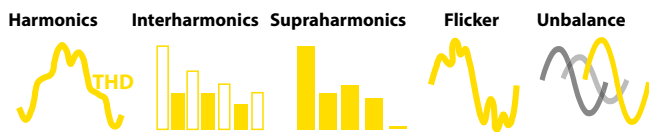


DC to 500 kHz for voltage and current

- Harmonics / Interharmonics / THD / TDD
- Subharmonics / DC
- Supraharmonics 2 - 9 kHz (IEC61000-4-7)
- Supraharmonics 8 - 150 kHz (IEC61000-4-30)
- 500 kHz FFT and PLC Digital Data Stream
- Grid Impedance up to 150/420 kHz



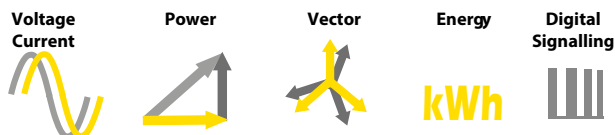
POWER QUALITY



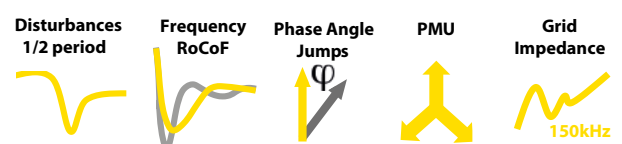
WAVEFORM & TRANSIENTS



POWER



DISTURBANCES AND SYSTEM DYNAMICS

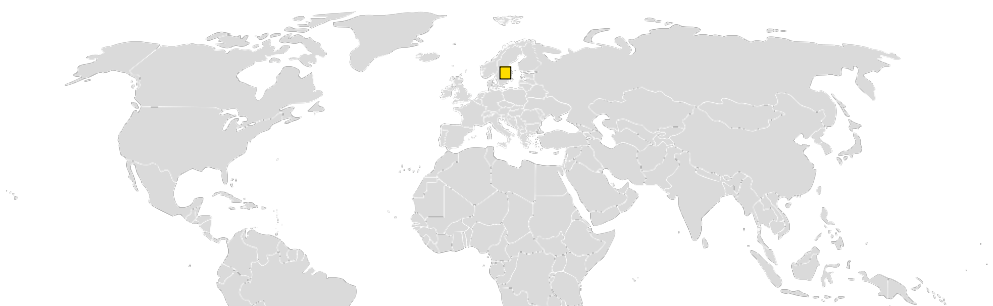


KONTAKT



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