

MOBILE POWER QUALITY ANALYZER



Power Quality



System Dynamics



Transients



Power



Grid Impedance

Supraharmonics

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

Power Quality Class A+

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

Highest Precision

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

Full Connectivity

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

PQA 7000



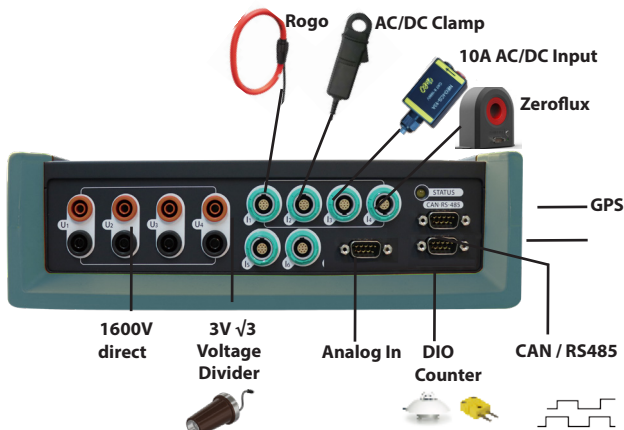
Accuracy	0.05%
Sampling Rate	48 kS/s
Supraharmonics	20 kHz
Resolution	24 bit
Inputs	4x Voltage, 5x Current
Voltage Range	800 V / 1600 V
Safety Category	CAT III 1000V / CAT IV 600V
Isolation	6 kV (CH - GND)
Current Input	Rogowski, Clamp (AC/DC)
Dynamic	0.5 mA to 150 kA (15x Ranges)
Clamp Power Supply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



INSTRUMENTOPTIONS



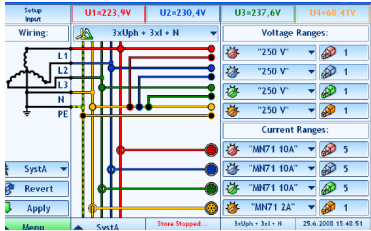
SYNCHRONISATION



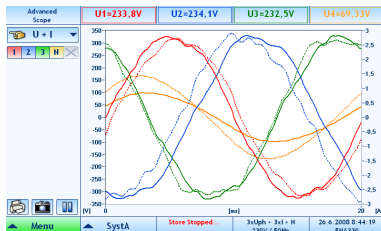
- Highest Precision SYNC
- Dataoverlay Function

SOFTWARE

Easy Configuration



Scope



Harmonic, Interharmonics

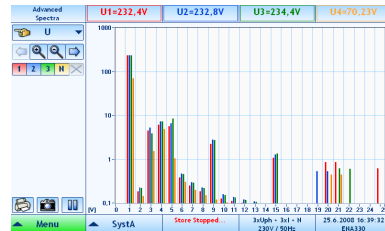
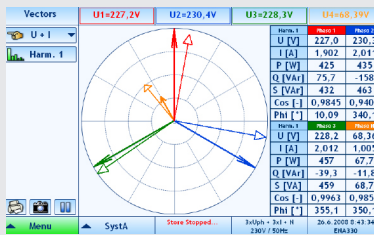


Table View

EasyTable	U1=229.6V	U2=236.5V	U3=232.1V	U4=70.45V	
	Phase 1	Phase 2	Phase 3	Phase N	Total
U RMS [V]	229.6	239.8	232.6	70.79	224.0
I RMS [A]	1.889	2.059	2.017	1.013	1.990
P [W]	426.5	463.4	465.3	70.40	1,355k
Q [Var]	79.17	-170.1	-99.58	-13.72	-337.2
S [VA]	433.8	493.6	469.1	71.72	1,396k
cos [-]	0.9845	0.9402	0.9963	0.9852	0.9728
f [Hz]					49.99

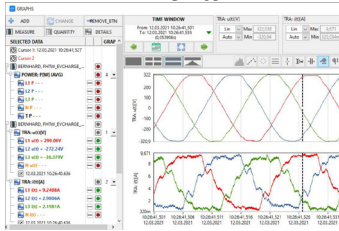
Vector Scope



Event List

DATE/TIME	DESCRIPTION	TYPE	UNIT	PHASE	PHASE	PHASE	PHASE
2016-08-20 15:40:51	U1=229.6V	U	V	1	229.6	239.8	232.6
2016-08-20 15:40:51	I1=1.889A	I	A	1	1.889	2.059	2.017
2016-08-20 15:40:51	P=426.5W	P	W	1	426.5	463.4	465.3
2016-08-20 15:40:51	Q=79.17Var	Q	Var	1	79.17	-170.1	-99.58
2016-08-20 15:40:51	S=433.8VA	S	VA	1	433.8	493.6	469.1
2016-08-20 15:40:51	cos=0.9845	cos	-	1	0.9845	0.9402	0.9963
2016-08-20 15:40:51	f=49.99Hz	f	Hz	1	49.99		

Events

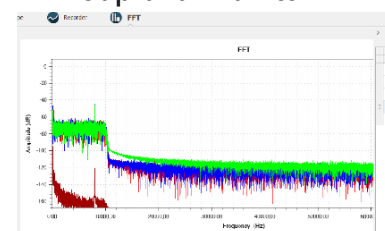


Automatic Reporting

Channel	Value	Unit	Phase	Phase	Phase	Phase
U1	229.6	V	1	229.6	239.8	232.6
I1	1.889	A	1	1.889	2.059	2.017
P	426.5	W	1	426.5	463.4	465.3
Q	79.17	Var	1	79.17	-170.1	-99.58
S	433.8	VA	1	433.8	493.6	469.1
cos	0.9845	-	1	0.9845	0.9402	0.9963
f	49.99	Hz	1	49.99		

EN50160 / IEEES19 / 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

Automatic Report Generator

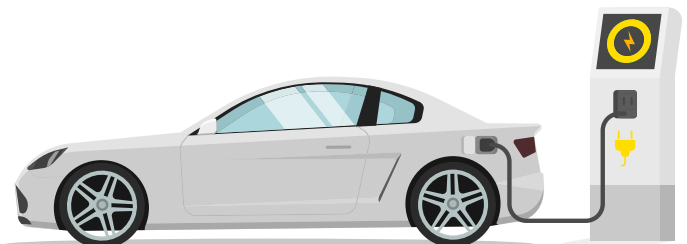
create self-made reports or use predefined templates

Dynamic and static data

Raw Data with sampling rate + 1/2 period values + 10 period values + 10 min average

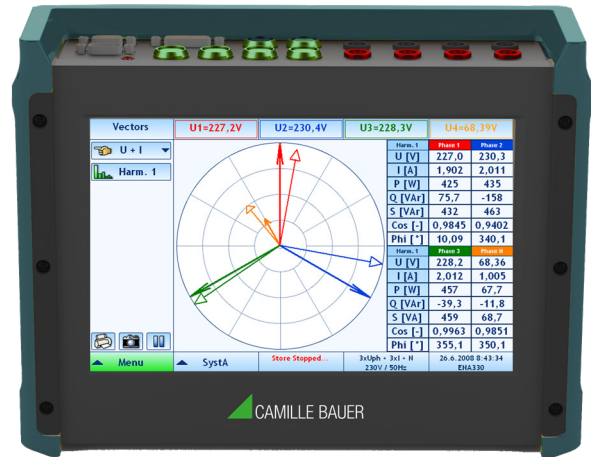
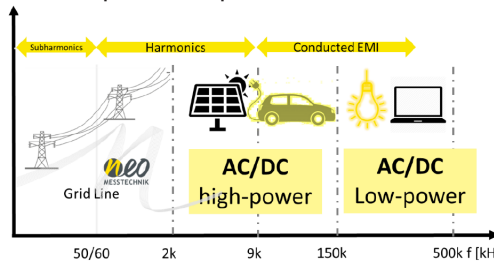
Sensor Correction

for frequency dependent amplitude damping and phase shift

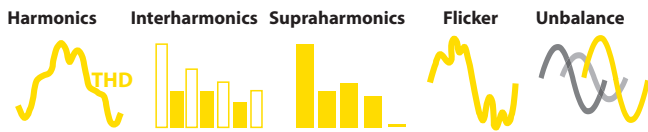


DC to 500 kHz for voltage and current

- 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



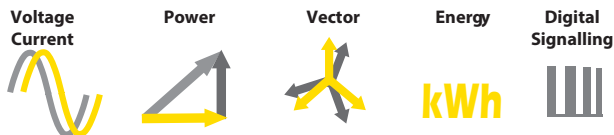
POWER QUALITY



WAVEFORM & TRANSIENTS



POWER



DISTURBANCES AND SYSTEM DYNAMICS

