

PQA-MultiSystem

CLASS A POWER QUALITY ANALYZER FOR MULTIPLE 3-PHASE SYSTEMS



Power Quality acc. to
IEC 61000-4-30 ed.3



- ✓ Power and Energy Analysis
- ✓ Symmetrical Components
- ✓ High-Level Harmonic Analysis

- ✓ Disturbances
- ✓ Waveform Capture
- ✓ Long Term Measurements

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→ Functionality

The firmware calculates power quality parameters according EN50160 fully follows requirements described in IEC 61000-4-30 ed. 3 Class A and others (61000-4-7, 61000-4-15).

The PQA-MultiSystem offers bandwidth for higher level harmonic analysis, power and energy analysis, disturbances, waveform capture, and symmetrical components. Its fixed installation allows for long-term measurements and is able to capture interferences caused by switching semi-conductor power supplies.

PQA-MULTISYSTEM FIRMWARE FUNCTIONALITY:

- ✓ FFT analyzer of harmonics and interharmonics according to IEC 61000-4-7 (storage of U, I, P, Q, S for each harmonic)
- ✓ Oscilloscope
- ✓ Vectorscope
- ✓ Power and energy monitor
- ✓ Flicker meter according to IEC 61000-4-15
- ✓ Voltage monitor according to EN 50160 (calculation acc. IEC 61000-4-30 standard, class A)
- ✓ Transient recorder for analog and digital signals (up to 66 seconds of voltage/current waveforms with up to 2 seconds pre-trigger, sampling rate up to 57 600 Samples/second)
- ✓ Disturbance recorder (half-period values including frequency, length of record 1-10 minutes with up to 1 minute pre-trigger)
- ✓ Signaling voltages monitor
- ✓ Alarm monitor
- ✓ Symmetrical components analyzer
- ✓ Network impedance analyzer
- ✓ Half period U+I extremes monitor

→ Technical Parameters

VOLTAGE INPUT

CHANNELS	Selectable 1x4, 2x4, 3x4, 4x4 (5x3, 6x3, 7x3, 8x3, 9x3, 10x3 voltage measurement only)
INPUT RANGE	60 V, 120 V RMS, selectable 600 V RMS
ACCURACY	+/-0.1 %
ISOLATION VOLTAGE	4.2 kV RMS, 50 Hz, 1 min
IMPEDANCE	600 kOhm, 10 pF

CURRENT INPUT

CHANNELS	1x4, 2x4, 3x4, 4x4
INPUT RANGE	1 A, 5 A
ACCURACY	+/-0.1 %

HARDWARE

OPERATING MEMORY	4 GB RAM
PROCESSOR	Intel Atom D2550 1,86 GHz
DATA STORAGE	16GB Industrial CFast card, Optionally additional 64 GB Industrial SSD
INTERFACES	2xEthernet, 2xRS232/RS485, USB, DVI-I, HDMI
A/D CONVERSION	16 bit
SAMPLING FREQUENCY	9600 S/s, 19200 S/s, Optionally 57600 S/s
POWER SUPPLY	9 – 36 V DC
POWER CONSUMPTION	30 VA



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