



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

- ✓ 5 Year Warranty
- ✓ Power and Energy
- ✓ Symmetrical Components
- ✓ Harmonic Analysis
- ✓ Disturbances
- ✓ Waveform Capture

ENA441

Class A Power Quality
Analyzer Up To
Four 3-Phase Systems

ENA441

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

ENA441 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

FUNCTIONALITY

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 Conversation	16 bit
Sampling Frequency	9600 S/s, 19200 S/s, optionally 57600 S/s
Power Supply	9 – 36 V DC
Power Consumption	30 VA
OTHER	
Warranty	5 years

PARAMETERS