

APQM-707 Analyzer

Electric power quality meter



APQM-707 Analyzer

Power quality analyzer for measurement, analysis, and registration of energy networks in accordance with the standard EN 50160
High measurement category (CAT IV 600V)
All parameters are measured in the S class of the IEC 61000-4-30 STANDARD guaranteeing high accuracy of measurements.

amperis

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Power Quality Analyzer Amperis APQM-707 is an autonomous meter allowing for versatile measurement, analysis, and registration of energy networks parameters DC and 50/60Hz, including the quality of electric energy in accordance with the European standard EN 50160. Analyzer with 7-inch colour touch screen enables intuitive and ergonomic operation. Thanks to the built-in lithium-ion battery.

The analyzer is directed to a very wide range of users, with particular reference to the maintenance staff and it can be used in virtually all kinds of networks with rated voltage from 54V to 760V directly, or indirectly via transformers.

The device is designed to work with networks:

- With nominal frequency 50/60Hz,
- With nominal voltage: 64/110 V; 110/190 V; 115/200 V; 127/220 V; 220/380 V; 230/400 V; 240/415 V; 254/440 V; 290/500 V; 400/690 V,
- DC network

Supported networks:

- Single-phase
- Two-phase with common N conductor
- Three-phase star connection with and without N conductor
- Three-phase delta

Software data analysis:

- General :Measurements, Events and Waveforms
- Measurements: voltage, frequency, etc.
- Events: dips, swells, interruptions, etc.
- Configuration

The software enables different types of diagrams

- Time diagram
- Waveforms
- Harmonics diagram
- Value/Time diagram

Software data analysis:

- PDF, HTML, CSV or TXT files
- According to EN 50160 standard



Parameters of analyzer:

Parametr		Measurement range	Max. resolution	Accuracy
Alternating voltage (TRMS)	-	0,0...760,0V	0,01 % Unom	±0,5% U nom
Crest Factor	Voltage	1,00...10,00 (1.65 for 690 V voltage)	0,01	±5%
	Current	1,00...10,00 (3,6 Inom)	0,01	± 5%wm
Alternating current TRMS	-	depending on clamp*	0,01 % Inom	±2% m.v. for m.v. 10% Inom ±2% I for m.v. < nom 10% Inom (error does not account for clamps error)
Frequency	-	40,00...70,00 Hz	0,01Hz	±0,05 Hz
Active, reactive, apparent and distortion power	-	depending of configuration (transformers, clamp)	up to for decimal places	depending on configuration (transformers, clamps)
Active, reactive apparent energy	-	depending of configuration (transformers, clamp)	up to for decimal places	as power error
cosφ and power factor (PF)	-	0,00...1,00	0,01	±0,03
Tgφ	-	0,00...10,00	0,01	depends on active and reactive power error
Harmonics	Voltage	as for alternating voltage True RMS	as for alternating voltage True RMS	±5% m.v. for m.v. 3% Unom ±0,15% U for nom m.v.. < 3% Unom
	Current	as for alternating voltage True RMS	as for alternating voltage True RMS	±5% m.v. for m.v.. 10% Inom ±0,5% I for m.v. < nom 10% Inom
THD	Voltage	0.0..100.0% (in regards to the rms value)	0,1%	±5%
	Current			±5%
Flicker severity PST, PLT	-	0,40...10,00	0,01	±10%
Voltage asymmetry	Voltage and current	0,0...10,0%	0,1%	±0,15% (absolute error)
Inrush current	-	depending on clamp*	0,01% Inom	±4% m.v. for m.v. 10% Inom ±4% I for m.v. < nom 10% Inom (RMS1/2)

*Clamp F-1A, F-2A, F-3A: 0..3000 A (10000 Ap-p) *Clamp C-4A: 0..1000 A (3600 Ap-p)*Clamp C-5A: 0..1000 A (3600 Ap-p)*Clamp C-6A: 0..10 A (36 Ap-p) *Clamp C-7A: 0...100 A (360 Ap-p)

Available with other configurations



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