

The device is designed to work with networks:

- with nominal frequency 50/60Hz.
- with nominal voltage:
110/190V; 115/200V; 127/220V; 220/380V;
230/400V; 240/415V; 254/440V; 400/690V.

Parameters of analyzer PQM-701:

Parameter	Measurement range		Max. resolution	Accuracy
Alternating voltage (TRMS)	—		0.01 % U_n	±0.1% U_n
Crest factor	Voltage	1.00...10.00 (≤ 1.65 for 690 V voltage)	0.01	±5%
	current	1.00...10.00 ($\leq 3.6 I_{nom}$)	0.01	± 5% m.v.
Alternating current TRMS	—		0.01% of nominal range	±0.1% of nominal range (error does not account for clamp error)
Frequency	—		0.01Hz	±0.01 Hz
Active, reactive, apparent and distortion power	—		up to four decimal places	depending on configuration (transformers, clamp)
Active, reactive apparent energy	—		up to four decimal places	as power error
$\cos\phi$ and power factor (PF)	—		0.01	±0.03
$\operatorname{tg}\phi$	—		0.01	depends on active and reactive power error
Harmonics	Voltage	as for alternating voltage True RMS	as for alternating voltage True RMS	±5% U_h for $U_h < 1\% U_n$ ±0.05% U_h for $U_h > 1\% U_n$
	Current	as for alternating voltage True RMS	as for alternating voltage True RMS	± 5% I_h for $I_h < 3\% I_n$ ± 0.15% I_h for $I_h > 3\% I_n$
THD	Voltage	0.0..100.0%	0.1%	±5%
	Current	(in regards to the rms value)		±5%
Active and reactive power of harmonics	—		depending on minimal current and voltage values	—
Angle between current and voltage harmonics	—		0.1°	±(h x 1°)
K-factor	—		0.1	±10%
Flicker severity P_{st}, P_{lt}	—		0.01	±5%
Voltage asymmetry	Voltage and current	0.0...20.0%	0.1%	±0.15% (absolute error)

*Clamp F-1, F-2, F-3:0..3000A (10000A_{p-p}) *Clamp C-4: 0..1000A (3600A_{p-p})*Clamp C-5: 0..1000A (3600A_{p-p})*Clamp C-6: 0..10A (36A_{p-p}) (without current transformers)

Standard accessories of the PQM-701 / 701Z / 701Zr:

- F-3 clamp to 3kA AC ($\varnothing 14$ cm) (4 pcs.)	WACEGF30KR	- USB transmission cable,	WAPRZUSB
- test lead with banana plugs; 2,2m; black (PQM-701 - 3 pcs, PQM-701Z - 4 pcs.)	WAPRZ2X2BLBB	- OR-1adapter - wireless USB interface transmission receiver	WAADAUSBOR1
- test lead with banana plugs; 2,2m; yellow;		- mains plug with banana inputs (L1 and N) for powering the device,	WAADAAZ1
- test lead with banana plugs; 2,2m; blue (PQM-701 - 1 pcs, PQM-701Z - 2 pcs.)	WAPRZ2X2YEBB	- Sonel Analysis software for data analysis,	
- RS-232 serial transmission cable	WAPRZ2X2BUBB	- SD card,	WAPOZSD1
- "Crocodile" clip K01; black (PQM-701 - 3 pcs, PQM-701Z - 4 pcs.)	WAPRZRS232	- hard carrying case,	WAVALXL1
- "Crocodile" clip K02, yellow	WAKROBL20K01	- mounting strap,	WAPOZOPAKPL
- "Crocodile" clip K02, blue (PQM-701 - 1 pcs, PQM-701Z - 2 pcs.)	WAKROYE20K02	- DIN Rail Mounting Clip (ISO) (2 pcs.)	WAPOZUCH2
	WAKROBU20K02	- built-in rechargeable battery,	
		- instruction manual, calibration certificate.	

Additional accessories of the PQM-701 / 701Z / 701Zr:

- rechargeable battery	WAAKU09	- Magnetic voltage adapter (4 pcs)	WAADAUMAGKPL
- AC line splitter (AC-16)	WAADAAC16	- hand carrying case for clamps	WAALL2
- Voltage Adapter with M4/M6 thread (5 pcs)	WAADAM4M6		

Clamp	C-4	C-5	C-6	F-1	F-2	F-3
INDEX	WACEGC40KR	WACEGC50KR	WACEGC60KR	WACEGF10KR	WACEGF20KR	WACEGF30KR
Rated current	1000A AC	1000A AC 1400A DC	10A AC		3000A AC	
Max. overload current	1200A AC	1000A AC 3000A DC	20A AC		10kA AC	
Minimal measurable current	100mA	500mA	10mA		1A	
Frequency	30Hz...10kHz	DC...5kHz	40Hz...10kHz		40Hz...10kHz	
Input signal level	1mV / 1A	1mV / 1A	100mV / 1A		38.8μV / 1A	
Max. diameter of measured cord	52mm	39mm	20mm	360mm	235mm	120mm
Minimal basic accuracy	≤0.5%	≤1.5%	≤1%		1%	
Battery power supply	—	+	—	—		
Lead length	2.2m	2.2m	2.2m	2.2m		
Measurement category	IV 300V	IV 300V	IV 300V	IV 600V		