

Power quality analyzer PQM-710 / PQM-711

The device is designed to work with networks:

• with nominal frequency 50/60Hz,

Parameters of analyzers:

- · with nominal voltage:
- 64/110 V; 110/190V; 115/200V; 127/220V; 220/380V; 230/400V; 240/415V; 254/440V; 290/500 V; 400/690V.
- DC network

Supported networks:

- single-phase,
- two-phase with common N conductor,
- three-phase star connection with and without N conductor,
- three-phase delta.

Parameter		Measurement range	Max. resolution	Accuracy	
Alternating voltage (TRMS)	_	0.0760 V	0.01 % U _n	±0.1% U _n	
Crest factor	Voltage	1.0010.00 (≤1.65 for 690 V voltage) 0.01		±5%	
	current	1.0010.00 (≤3,6 I _{nom}) 0.01		± 5% m.v.	
Alternating current			0.01% of nominal range	±0.1% of nominal range (error does	
TRMS		depending on clamp*	0.01 % of Hoffillal fallye	not account for clamp error)	
Frequency	_	40.0070.00 Hz	0.01Hz	±0.01 Hz	
Active, reactive, apparent		depending on configuration	up to four	depending on configuration	
and distortion power	_	(transformers, clamp)	decimal places	(transformers, clamp)	
Active, reactive		depending on configuration up to four		as power error	
apparent energy	_	(transformers, clamp) decimal places		as power error	
cosφ and power factor (PF)	_	0.001,00	0.01	±0.03	
tgφ	_	0.0010.00	0.0010.00 0.01		
Harmonics	Valtana	as for alternating voltage as for alternating voltage		±5% U _n for U _n ≥1% U _n	
	Voltage	True RMS True RMS		±0.05% U _n for U _h <1% U _n	
and interharmonics		as for alternating voltage as for alternating voltage True RMS True RMS		± 5% I _h forI _h ≥3% I _n	
	Current			± 0.15% I _n for I _h <3% I _n	
THD	Voltage	0.0100.0%	0.19/	±5%	
עחו	Current	(in regards to the rms value)		±5%	
Active and reactive power of harmonics		depending on configuration depending on minimal		_	
		(transformers, clamp)	current and voltage values	_	
Angle between current		100.0 100.00	0.1°	. /h v 19)	
and voltage harmonics		-180.0+180.0°	0.1	±(h x 1°)	
K- factor	_	1.050.0	0.1	±10%	
Flicker severity P_{st} , P_{lt}	_	0.2010.00) 0.01 ±5%		
Valtaga agummetru	Voltage	0.0.000/	0.10/	±0.15%	
Voltage asymmetry	and current	0.020.0%	0.1%	(absolute error)	
Mains signaling	Voltage	53000 Hz	0.01 Hz	$\pm0.15\%U_{_{\rm I}}$ for 13% $U_{_{\rm I}},5\%U_{_{\rm I}}$ for 315% U	
Transients (PQM-711 only)		±6000 V (with max. sampling 10 MHz) 5V		± (0.5% + 25 V)	

Clamp F-1, F-2, F-3:0..3000A (10000A_{pp}) *Clamp C-4: 0..1000A (3600A_{pp})*Clamp C-5: 0..1000A (3600A_{pp}) *Clamp C-6: 0..10A (36A_{pp}) (without current transformers) Clamp C-7: 0...100 A (360A_{pp})

- Test leads 2.2 m; 7 pcs (installed),
- "Crocodile" clip K01; black; 3 pcs,
- "Crocodile" clip K02; yellow,
- "Crocodile" clip K02; blue,
- "Crocodile" clip K02; red; 2 pcs,
- USB cable,
- Power supply plug (L1 and N),
- Adapter AC-16,
- heavy duty backpack for analyzer, tablet and accessories

Standard accessories:

- WAKROBL20K01 DIN Rail Mounting Clip (ISO) (3 elements),
- **WAKROYE20K02** Voltage Adapter with M4/M6 thread; 5 pcs, **WAKROBU20K02** Magnetic voltage adapter; 4 pcs,

- WAKRORE20K02 Fasteners and bands for mounting the analyzer on a pole; 2 pcs, WAPOZUCH4
 - WAPRZUSB Sonel Analysis software for data analysis,

 - WAADAAZ1 tablet with case, power supply and USB cable,

 - WAADAAC16 Built-in rechargeable battery,
 - WAWALXL2 instruction manual, calibration certificate.

- Carrying case for clamps,

- Carrying case for analyzer and accesoriess

WAWALL2 - External IP67 GPS antenna, 10 m, WAWALXL2 - Rechargeable Li-Ion battery

- Straps for PQM,

WAPOZANT10GPS

WAPOZOPAKPL

WAPOZUCH3

WAADAM4M6 WAADAUMAGKPL

















Clamp	C-4	C-5	C-6	C-7	F-1	F-2	F-3
INDEX	WACEGC40KR	WACEGC50KR	WACEGC60KR	WACEGC70KR	WACEGF10KR	WACEGF20KR	WACEGF30KR
Rated current	1000A AC	1000A AC 1400A DC	10A AC	100 A AC	3000A AC		
Max. overload current	1200A AC	1000A AC 3000A DC	20A AC	100 A AC	10kA AC		
Minimal measurable current	100mA	500mA	10mA	20 mA	1A		
Frequency	30Hz10kHz	DC5kHz	40Hz10kHz	40 Hz1 kHz	40Hz10kHz		
Input signal level	1mV / 1A	1mV / 1A	100mV / 1A	500 mV / 1A	38.8µV / 1A		
Max. diameter of measured cord	52mm	39mm	20mm	24 mm	360mm	235mm	120mm
Minimal basic accuracy	≤0.5%	≤1.5%	≤1%	0,5%	1%		
Battery power supply	_	+	_	_	_		
Lead length	2.2m	2.2m	2.2m	3 m	2.2m		
Measurement category	IV 300V	IV 300V	IV 300V	III 300 V	IV 600V		