



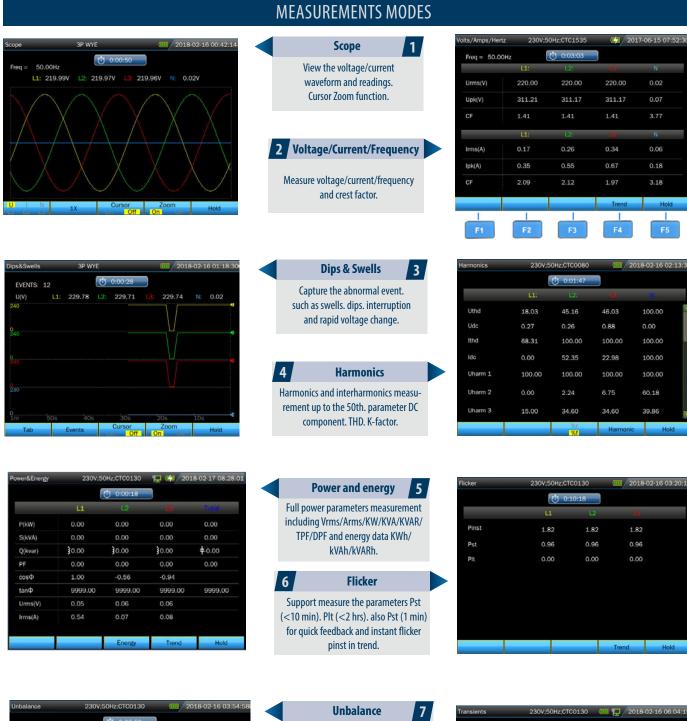
NP45 power quality analyzer is the professional portable device to measure and analyze the power system quality. supply the harmonics analysis and power quality data analysis. also provide big memory for the data storage. which is used to make the long term logger measuring to power system. The PC software can simply upload the data to PC for full analysis.

FEATURES

- 5.6" TFT color screen. 640 x 480 pixel.
- Waveform real-time display (4 voltages/4 currents).
- Half cycle RMS measurement (voltage and current).
- Measurement of TRMS currents up tp 6000 A (with additional probes mode).
- Measurement in 1-phase and 3-phase systems (3 and 4-wire).
- Measurement of voltage. current. harmonics. power. energy. inrush current. flicker and other.
- Graphical presentation of data in a waveform and vector diagram.
- Record of events: dips. swells. overvoltages.
- Power quality according to EN-50160 standard or user-defined limit.
- Registration of user-defined parameters in the 32GB internal memory (registration time from 2 h up to 1 year).
- Ethernet interface for remote operation of the analyzer.
- USB Host to move archive data and screenshots to an external USB memory.
- Safety standards: EN 61010-1. CAT III 1000V / CAT IV 600V.
- The analyser set: analyzer. voltage tests leads aligator clips (5x). DC power adapter. CD with software. user's manual.

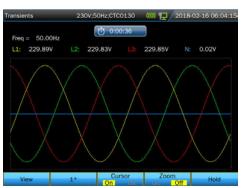






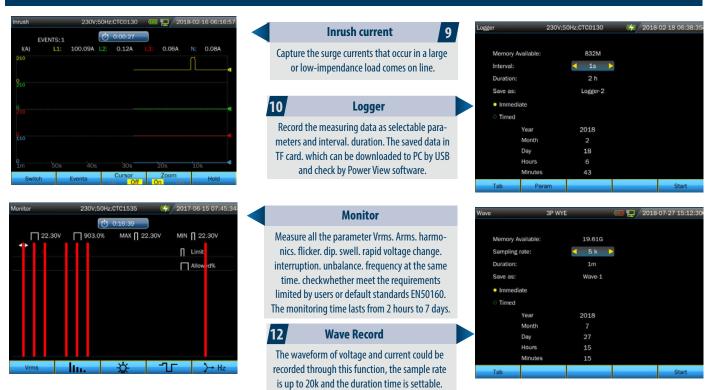






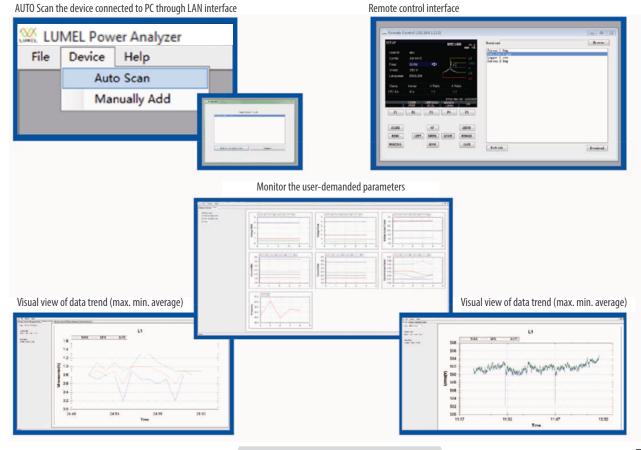
www.lumel.com.pl





LUMEL POWER ANALYZER SOFTWARE

LUMEL Power Analyser is easy operation software to make the remote control to analyzer and view the download data.



MEASUREMENTS MODES



TECHNICAL DATA

► INPUTS

VOLTAGE INPUTS		
Input Channels	4 (3-phase + neutral)	
Max. input voltage	1000 Vrms	
Range of nominal voltage	50500V	
Max pulse peak voltage	6kV	
Bandwidth	>3kHz	
Input impedance	4ΜΩ/5pF	
CURRENT INPUT		
Number of input	4 (3-phase+ neutral) DC coupling	
Туре	clamp current sensor with mV output	
Input range	depends on the CT clamps: 5A/50A/100A/1000A/1500A/3000A/6000A	
Input Impedance	100 kΩ	
Bandwidth	>3kHz	
SAMPLING SYSTEM	SAMPLING SYSTEM	
Resolution	8 channels 16 bits AD	
Sampling rate	163.84kS/s for each channel. 8 channels sample synchronously	
RMS sampling	5000 points for 10/12 cycles (according to EN 61000-4-30)	
PLL synchronizacja	4096 points for 10/12 cycles (according to EN 61000-4-7)	

► MEASUREMENT

		Measurement range	Resolution	Accuracy
VOLTAGE/CURRENT/	FREQUENCY			
Vrms (AC+DC)		1 ~ 1000 Vrms	0.01 Vrms	\pm 0.1% of nominal voltage
Vpk		1 ~ 1400 Vpk	0.01 Vpk	\pm 0.5% of nominal voltage
V (crest factor))		1.0 ~ >2.8	0.01	± 5%
Arms (AC)	10mV/A	0~150 A	0.01A	$\pm0.1\%\pm0.1\text{A}$
	1mV/A	1~ 2000 A	0.01A	\pm 0.1% \pm 0.1A
	65mV/1000A	10~6000A	0.01 A	±1% ±2A
A (crest factor)		1 ~ 10	0.01	± 5%
Frequency		42.5 ~ 57.5 Hz (nominal 50 Hz)	0.01Hz	± 0.01 Hz
		51 ~ 69 Hz (nominal 60 Hz)	0.01Hz	± 0.01 Hz
		320~480 (nominal 400 Hz)	0.01 Hz	± 0.01 Hz
DIPS & SWELLS				
Vrms1/2		0 ~ 200% of nominal voltage	0.01 Vrms	± 0.2 %
Arms1/2		dependent on CT clamps	0.01 A	± 1%



► MEASUREMENT

	Measurement range	Resolution	Acuuracy	
HARMONIC		'		
Harmonnic number	1 ~ 100 (50/60 Hz); 1~12 (400 Hz)			
Harmonic voltage	0.0 ~ 100.0%	0.01%	$\pm 0.1\% \pm n \times 0.1\%$	
Harmonic current	0.0 ~ 100.0%	0.01%	$\pm 0.1\% \pm n \times 0.1\%$	
THD	0.0 ~ 100.0%	0.01%	±2.5%	
Phase	-180°~180,0°	0,1°	\pm n × 0.1°	
POWER & ENERGY				
Active power P (kW). apparent power S (kVA). reactive power Q 9kvar)	max 6000 MW	0.1kW	\pm 1% \pm 10 characters	
kWh, kVAh, kvarh	depending on the rated vo	Itage and CT clamps	\pm 1% \pm 10 characters	
Power factor (TPF)	0~1	0.01	± 0.1 %	
Cosφ (DPF)	0~1	0.01	± 0.1 %	
FLICKER				
Pst (1min). Pst. Plt. PF5	0.00 ~ 20.00	0.01	±5%	
UNBALANCE	l	1	1	
Voltage	0.0 ~ 20,0%	0.1%	± 0.1%	
Current	0.0 ~ 20.0%	0.1%	±1%	
Voltage phase	-360° ~ 0°	0.1°	± 0.1°	
Current phase	-360° ~ 0°	0.1°	± 0.5°	
VOLTAGE TRANSIENT				
Vpk	±6000 Vpk	1V	±15%	
Vrms	10 ~ 1000Vrms	1V	±2.5%	
Min. Test Time	6.5 µs			
Sampling rate	163.84kS/s (50/60Hz)			
INRUSH CURRENT				
Arms (AC+DC)	depending on CT clamps	0.01	$\pm 1\% \pm 5$ digits	
Inrush duration	1s ~ 32min selectable	10 ms	±20 ms	
LOGGER				
Recording	user-definded parameters for 4 phases at the same time			
Memory	data stored in TF card. 32GB			
Duration time	2 hrs to 1 year			
Interval	1s to 1 hr			



► GENERAL CHARACTERISTICS

DISPLAY	
Screen	color TFT LCD
	5.6 inch
Size	
Resolution	640×480
Brigthness	adjustable
HOUSING	
Protection	protection shield. strong
IP	IP53 acc. to EN 60529
INTERFACE	
USB Host	Download file to PC by U disk for analyze with PC software.
LAN	For remote control of the analyzer and measurement data transmission.
GPS (option)	Activated with an additional external receiver.
WiFi	For remote control of the analyzer and measurement data transmission.
MEMORY	
FLASH memory	1GB
Tf card	32GB
MECHANICAL	
Dimension	$270 \times 190 \times 66$ mm
Weight	2.0 kg
ENVIROMENT	
Working temperature	0°C~ 40°C
Storage temperature	-20°C~ 60°C
Humidity	90% relative humidity
POWER	
Adapter input	90~264V
Adapter output	9V 2.2A
Battery	rechargeable lithiumion 7.4V 5200mAh
Battery working time	> 7 hours
Battery charge time	4 hours
STANDARD	
Measurement method	EN 61000-4-30 Class-A
Measurement performance	EN 1000-4-30 Class-S
Power quality monitoring	EN 50160
Flicker	EN 61000-4-15
Harmonic	EN 61000-4-7
ELECTRICAL SAFETY	
Comply with	EN 61010-1
MAx. voltage at voltage input	600V CAT IV. 1000V CAT III
Max. voltage at current input	30V



ANALYZER SET

Voltage tests leads aligator clips	lenght 2m. 5 pcs
Power adapter DC	1 pc
Power patch cord	1 рс
Soft carry bag	1 pc
Hang strap	1 рс
CD wit software. user's manual	1 pc each

► THE SPECIFICATION OF ADDITONAL EQUPIMENT (CURRENT CLAMPS/ ROGOWSKI COILS)

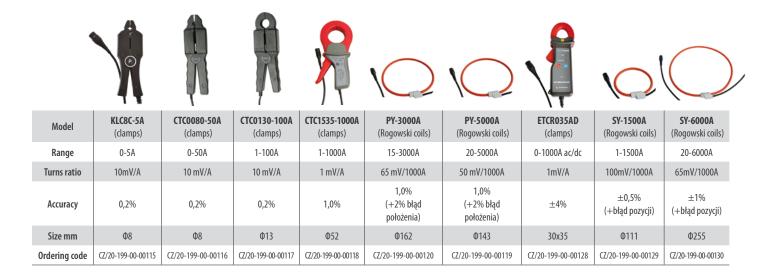


Table 1. NP45 ordering co	le:			
Portable power quality analyzer NP45	Х	XX	Х	Х
Additional equipment:				
lack	0			
4 pcs. Rogowski coils PY 3000 A	1			
4 pcs. Rogowski coils PY 5000 A	2			
4 pcs. current clamps KLC8C 5 A	3			
4 pcs. current clamps CTC0080 50 A	4			
4 pcs. current clamps CTC0130 100 A	5			
4 pcs. current clamps CTC1535 1000 A	6			
4 pcs. current clamps ETCR035AD 1000A ac/dc	7			
4 pcs. Rogowski coils SY 1500A	8			
4 pcs. Rogowski coils SY 6000A	9			
Version:		-		
standard		00		
custom-made*		ΧХ		
Language:				
Multilanguage (Polish/English)			М	
other*			Х	
Acceptance tests:				
without extra requirements				0
with an extra quality inspection certificate				1
with a calibration certificate				2
acc. to customer's request*				Х

ORDERING CODE

* after agreeing with the manufacturer

PORTABLE MULTIMETERS & METERS



MORE INFORMATION IN OUR CATALOG:



NP45-19A-en



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Calibration & Attestation: e-mail: laboratorium@lumel.com.pl

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B6 100150AD0100M0
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BA391NE4050000

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120000
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