

POWER QUALITY ANALYZER KEW 6315



Simultaneous Power & Power quality measurements

Power/ Harmonics/ Waveform/ Power quality are recorded at all CHs. (Voltage: 3ch, Current 4ch)

- Helpful support functions
 Quick Start Guide, Wiring check and Sensor detection for easy and reliable measurement
- Measurement with high accuracy
 Guaranteed accuracy: ±0.3%rdg (energy),
 ±0.2%rdg (voltage/ current)

Complies with the International Standard

IEC61000-4-30 Class S and the European Standard EN50160

Remote monitoring on PC and Android device

Remote checking of measurement in real-time is possible via Bluetooth communication. Recorded data can be saved in the supplied SD card. EN50160 report can be generated after survey by PC software.

- Various Clamp Current Sensors
 Various types of clamp and flexible sensors are available: from 1000mA Range up to 3000A Range and Earth leakage measurements
- Energy consumption check on site
 Trend and demand graphs for easy recognition.
 TFT color display with high resolution.
- IEC61010-1 CAT № 300V, CAT 🗉 600V, CAT 🛚 1000V

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Easy-to-use setting to simultaneous power energy and power quality recordings

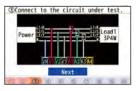


Quick Start Guide

Easily and securely starts recording

One-Touch START/STOP Key for Quick Start Guide providing easy setup guides.





Wiring check	OK
Self diagnosis	OK
Sensor identification	OK
Done	
Next	

	1min.	1sec.
	2min.	2sec.
	5min.	5sec.
	10min.	18sec.
	15min.	15sec.
	4 100	20sec.
10 3	30min.	30sec.



Guide start

Connect to the circuit

Wring check

Select interval

Set recording time

Start recording

w/wh Power & Energy

Instantaneous value

		108		2ch	Seh		
٧	:	239.9	2	46.3	236.6	V	
A	÷	48.1		48.3	47.9	A	
P	:	11.5		11.9	11.5	MM.	
Q	×	1.2		1.0	0.9	kvar	
5	:	11.6		11.8	11.4	kVA.	
PF	:	0.812	. 6	.809	0.792		Inst
P	:	44.8	kw.	f:	60.01	Hz	Avg
Q		4.5	kvai				Max
5	÷	44.8	KYA				
PF		0.788		An :	4974	Mar	Min
DC1	:	0	wiii '	DC2:	0	mÜ	00:38





List

SI

Trend

- Measures instantaneous / average / min / max for voltage, current, active / reactive / apparent power, PF (cosfi) and line frequency all on one screen.
- The recording time for these parameters can be set from 1 second up to 2 hours in several steps.
- Trend of all main parameters and customized Zoom functions.
- Function to define size of capacitor banks of PF correction unit.

Integration value

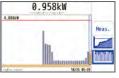
Elapse	d time	00000:01	:17	
Active	MP4 :	83.2306		
Active	WP- :	0.0000	W:	-LOAD-
Apparent	WS+ :	85.3413	VAb	122
apparent	MS- :	0.0000	VAh	Σ
Reactive	WQi+:	18.7191	varh	1ch 2ch
	WQc+:	0.0000	varh	2011

- The display will list the active / reactive / apparent energy in total and for each phase consumed (or generated in case of co-generation like solar panels, etc).
- The elapsed time is also shown on the same display screen.

Demand

Time left	00:29:28	1	
DEM Target	4.000	kW	96.00
DEM Guess	3.918	kW	Heas.
DEM Present	0.069	kW	A
DEM Max	0.069	kW	





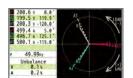
Measurement

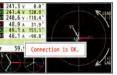
Change in specific period

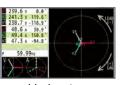
Demand change

To support demand control, present energy usage and estimated value are displayed on a graph while recording max demand value and the occurred time.

(Fig. 1) Vector and Wiring check







ector Wiring check

Ideal vector

Can display voltage and current by vector per CH and also unbalance ratio.

PRINT SCREEN Print Screen

This function "takes a color photo" of the display screen and saves it as BMP file useful for reports.



ESC

QUALITY Power Quality

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Event



Measures voltage swells / dips / interruptions / transients and inrush currents that may indicate a weak power distribution system. Such phenomena may damage or reset devices. KEW 6315 can catch swells / dips / interruptions and inrush currents based on half cycle (10 ms @ 50Hz or 8.3ms @ 60Hz) TRMS.

All necessary data is displayed by pressing one key.

Swell

Swell is a instantaneous voltage increase, most of the time originated by upstream power line failure or switching OFF large load or switching

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POWER QUALITY ANALYZER

Windows software for data analysis and setting via USB port

- Automatic creation of graph and list from recorded data.
- Uniform management of setting and recorded data acquired from multiple devices.
- Data can be expressed in crude oil and CO, equivalent values in the report.

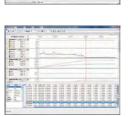
(System requirements)

- OS: Windows® 7/8/10
 Display: XGA(Resolution 1024×768 dots) or more
 Hard-disk: Space required 1Gbyteor more
- Other: With CD-ROM drive and USB port, NET Framework (3.5 or more)

Windows[®] is registered trademark of Microsoft in the United States.

■ Microsoft in United St





Real time and Remote measurements.



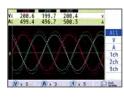
Measurements can be graphically displayed on Android devices or PC in real-time via Bluetooth communication.







Waveform



- Displays voltage and current on each Ch by waveform.
- Scales of voltage/current axis and time axis are selectable, and also full-scale function for automatic scaling is available.

Harmonics Analysis



Graph

List

- Graphic display of harmonic components up to 50th order for voltage, current and power in total and for
- List display of harmonic content, rms value and phase angle of each order.
- Can analyze harmonic currents that may contribute to damage capacitor banks for PF correction, overheating transformers / neutral conductors / cables, unwanted tripping of breakers.

USB Terminal

Digital Output Terminal

Open Collector Output (1ch)

Analogue Input Terminal

2ch DC100mV / 1000mV, 10V. To record additional parameters (i.e. Lux, Temperature, Humidity,etc.)

SD card Interface

SD cards up to 2GB can be used

Possible recording time When the 2GB of SD is used:

Interval	REC	item
interval	Power	+Harmonics
1sec	13days	3days
1min	1-year or more	3mounths
30min	10-year or more	7-year or more

Data of power quality events are not considered to estimate the possible recording time. The max possible time will be shortened by recording such events.

Dip, as the opposite of a swell, is a instantaneous voltage decrease, most of the time caused by switching ON large load e.g. motors or by downstream power line failure.

Interruption

Interruption is a power line cut-off from any source of supply. It can be caused by a fault in a power line, which causes switch gear to open.

Transients/Over Voltage (Impulse)

Transient is a very fast and momentary voltage increase that can seriously damage devices connected to a power line. It may be caused by electrical switching events such as instable contacts of relays, tripping of breakers but also by lightening. KEW 6315 can catch Transients from 2.4 us.

Inrush Current

Inrush current is a surge current that happens when



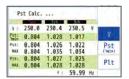


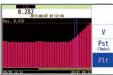
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Flicker

Designed to meet IEC61000-4-15

Flicker is a phenomenon giving an impression of unsteadiness of visual sensation induced by periodic voltage changes caused by fluctuating loads when using: arc furnace, spot welder, crane, excavator, etc.





Trend graph

Displays Pst (1min) on a trend graph.

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Optional

MODEL 8128

Load current clamp sensors





MODEL 8127







MODEL 8124

Leakage &Load current clamp

KEW 8146 KEW 8147

#8146/8147/8148 can measure up to 10A





KEW 8148





Magnetic carrying case

MODEL 9132





Can you close your distribution board door during surveys?

The KEW6315 facilitates safe testing by being extremely compact and with two clever option extras: a magnetic case(9132) for attaching it to the sides of metal enclosures and a power supply adaptor(8312) which takes the power for the instrument from the supply being measured.

Set Model

KEW 6315-01 MODEL 8125 (500A) × 3

(Carrying case 9125) KEW 6315-03 KEW 8130 (1000A) × 3

(Carrying case 9135) KEW 6315-05

KEW 8133 (3000A) × 3 (Carrying case 9135)





3000A φ170

Specifications

W	iring connections	1P2W, 1P3W, 3P3W	V, 3P4W		
	easurements and arameters	Voltage, Current, Fre Apparent power, Act Apparent energy, Po Demand, Harmonics Transients/Over volta Capacitance calcular	tive energy, Reactive ower factor (cosθ), Nos, Quality (Swell/Dip/ age, Inrush current,	e energy, Neutral current, (Interruption, Unbalance rate),	
Vc	oltage (RMS)			·	
	Range	600.0/1000V			
	Accuracy	0.08% of nominal voltage (sine wave, 40 - 70Hz)			
	Allowable input	1 - 120% of each range (rms). 200% of each range (peak)			
	Display range	0.15 - 130% of each range			
	Crest factor	3 or less			
	Sampling speed of Voltage transient	24µs			
Сι	urrent (RMS)				
	Range	8128 8127 8126 8125 8124/8130 8146/8147/8148 8133	(50A type) (100A type) (200A type) (500A type) (1000A type) (10A type) (3000A type)	5000mA/50.00A/AUTO 10.00/100.0A/AUTO 20.00/200.0A/AUTO 50.00/500.0A/AUTO 100.0/1000A/AUTO 1000mA/10.00A/AUTO 300.0/3000A/AUTO	
	Accuracy	±0.2%rdg±0.2%f.s.	+accuracy of clamp	sensor (sine wave, 40 - 70Hz)	
	Allowable input	1 - 110% of each range (rms). 200% of each range (peak)			
	Display range	0.15 - 130% of each range			
	Crest factor	3 or less			
Αc	ctive power				
	Accuracy	±0.3%rdg±0.2%f.s. + accuracy of clamp sensor (power factor 1, sine wave, 40 - 70Hz)			
	Influence of power factor	±1.0%rdg (reading at power factor 0.5 against power factor 1)			

Frequency meter range	40 - 70Hz
Power source (AC Line)	AC100 - 240V/50 - 60Hz/7VA max
Power source (DC battery)	Alkaline size AA battery LR6 or Ni-MH (HR15-51)×6 Battery life approx. 3 h (LR6, Backlight OFF)
Internal memory	FLASH memory (4MB)
PC card interface	SD card (2GB)
PC communicationinterface	USB Ver2.0, Bluetooth Ver2.1+EDR Class2
Display	320×240(RGB)Pixel, 3.5inch color TFT display
Display update period	1 sec
Temperature and humidity range	23±5°C, less than 85% RH (without condensation)
Operating temperature and humidity range	0 - 45°C. leaa than 85% RH (without condensation)
Storage temperature and humidity range	-20 - 60°C. less than 85% RH(without condensation)
Applicable Standards	EC 61010-1
Dimension/Weight	175 (L) × 120 (W) × 68 (D) mm/approx 900g
Included accessories	7141B (Voltage test lead), 7170 (Power cord), 7219 (USB cable),8326-02(SD card 2GB), 9125 (Carrying case for KEW 6315, KEW 6315-01) 9135 (Carrying case for KEW 6315-03, KEW 6315-05), Input terminal platex6, KEW Windows for KEW6315 (software), Quick manual, Alkaline size AA battery (LR6)×6
Optional accessories	8124, 8125, 8126, 8127, 8128 (Load current clamp sensor), 8130, 8133 (Flexible clamp sensor), 8146, 8147, 8148 (Leakage and Load current clamp sensor), 8312 (Power supply adapter), 9132 (Magnetic carrying case)



Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely Safety Warnings: for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

For inquires or orders:

