

POWER QUALITY ANALYZER

KEW **6315**

RMS USB Bluetooth External Power Supply



- 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: $\pm 0.3\% \text{rdg}(\text{energy})$,
 $\pm 0.2\% \text{rdg}(\text{voltage/current})$
Complies with the International Standard
IEC 61000-4-30 Class S and the European Standard EN50160
- Energy consumption check on site
Trend and demand graphs for easy recognition. TFT color display with high resolution.
- IEC 61010-1 CAT IV 300V,CAT III 600V,CAT II 1000V

	6315	
Wiring connections	1P2W, 1P3W, 3P3W, 3P4W	
Measurements and parameters	Voltage, Current, Frequency, Active power, Reactive power, Apparent power, Active energy, Reactive energy, Apparent energy, Power factor (cos θ), Neutral current, Transients/Over Demand, Harmonics, Quality(Swell/Dip/Interruption, voltage, Inrush current, Unbalance rate), Phase advance condenser, IEC Flicker	
Other functions	Digital output function, External communication function,Scaling function	
Voltage [RMS]	Range	600.0/1000V
	Accuracy	600.0V Range : (sine wave 40 - 70Hz) 10% - 150% against 100V or more of nominal V : Nominal V $\pm 0.5\%$ Out of above range : $\pm 0.2\% \text{rdg} \pm 0.2\% \text{f.s.}$ 1000V Range : $\pm 0.2\% \text{rdg} \pm 0.2\% \text{f.s.}$ (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
Current [RMS]	Range	8128(50A type): 5000mA/50.00A/AUTO 8127(100A type): 10.00/100.0A/AUTO 8126(200A type): 20.00/200.0A/AUTO 8125(500A type): 50.00/500.0A/AUTO 8124/8130(1000A type): 100.0/1000A/AUTO 8146/8147/8148(10A type): 1000mA/10.00A/AUTO 8133(3000A type): 300.0/3000A/AUTO
	Accuracy	$\pm 0.2\% \text{rdg} \pm 0.2\% \text{f.s.}$ + 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
Active power	Accuracy	$\pm 0.3\% \text{rdg} \pm 0.2\% \text{f.s.}$ + accuracy of clamp sensor (power factor 1, sine wave, 40 - 70Hz)
	Influence of power factor	$\pm 1.0\% \text{rdg}$ (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)	LR6 or Ni-MH(HR15-51) \times 6 Battery life approx. 3h (LR6,Backlight OFF)	
Memory card	SD card (2GB)	
PC communication interface	USB Ver2.0, Bluetooth® Ver2.1+EDR Class2	
Display	320 \times 240(RGB)Pixel, 3.5inch color TFT display	
Temperature and humidity range	23 $\pm 5^\circ\text{C}$ less than 85% RH (without condensation)	
Operating temperature and humidity range	0 - 45 $^\circ\text{C}$ less than 85% RH (without condensation)	
Storage temperature and humidity range	-20 - 60 $^\circ\text{C}$ less than 85% RH (without condensation)	
Applicable Standards	IEC 61010-1 CAT IV 300V, CAT III 600V, CAT II 1000V Pollution degree 2, IEC 61010-2-030,IEC 61010-031, IEC 61326,EN50160 IEC 61000-4-30 Class S, IEC 61000-4-15, IEC 61000-4-7	
Dimension/Weight	175(L) \times 120(W) \times 68(D) mm/approx 900g	
Accessories	7141B(Voltage test lead), 7170(Power cord), 7219(USB cable), 8326-02(SD card 2GB), 9125(Carrying case),Input terminal plate \times 6, KEW Windows for KEW6315(software), Quick manual, LR6(AA) \times 6	

POWER QUALITY ANALYZER

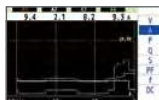
Simultaneous Power & Power quality measurements

W/Wh Power & Energy



Instantaneous value

- Measures instantaneous / average / min / max for voltage, current, active / reactive / apparent power, PF (cos θ) and line frequency all on one screen.
- Trend of all main parameters and customized Zoom functions.



Integration value

- 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).

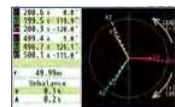


Demand

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

Vector

- Can display voltage and current by vector per Ch.



Waveform

- Displays voltage and current on each Ch by waveform.



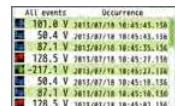
Harmonics Analysis

- Graphic display of harmonic components up to 50th order for voltage, current and power.



QUALITY Event

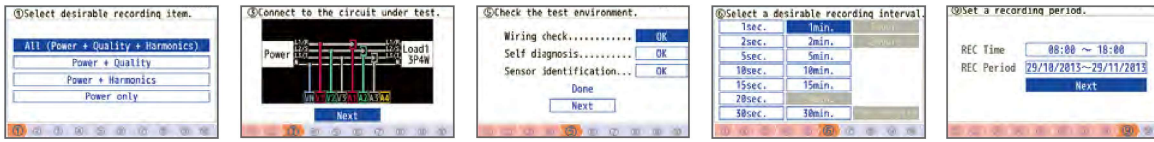
- Measures voltage swells / dips / interruptions / transients and inrush currents that may indicate a weak power distribution system. Such phenomena may damage or reset devices. All necessary data is displayed by pressing one key.



POWER QUALITY ANALYZER

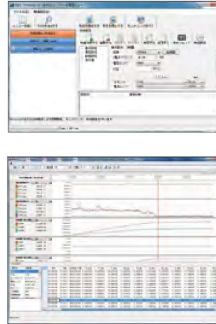
Quick Start Guide

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



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 CO₂ equivalent values in the report.
- EN50160 report can be generated after survey.



<System requirements>

- OS: Windows® 8/10
- Display: XGA(Resolution 1024 × 768 dots) or more
- Hard-disk: Space required 1Gbyte or 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.

Real time and Remote measurements

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



*Bluetooth® is a registered trademark of the Bluetooth SIG, Inc. Android™ is a registered trademark of the Google Inc.

Optional Accessories

Load current clamp sensors



Leakage & Load current clamp



*8146/8147/8148 can measure up to 10A for use in KEW 6315

Load current flexible clamp sensors



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.



SD card Interface

SD cards up to 2GB can be used

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



Interval	REC item	
	Power	+Harmonics
1sec	13days	3days
1min	1-year or more	3months
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.

Set Model



KEW 6315-01
8125(500A) × 3
Carrying case : 9125



photo : 6315-03

KEW 6315-03 **KEW 6315-04** **KEW 6315-05**
8130(1000A) × 3 8130(1000A) × 4 8133(3000A) × 3
Carrying case : 9135 Carrying case : 9135 Carrying case : 9135