

POWER QUALITY ANALYZER KEW 6315

Simultaneous recording of Power& Power Quality measurements in one survey, The perfect tool for Energy Saving) and Power Quality control, KYORITSU POWER QUALITY ANALYZEF - 2019/02/04 DC1 Customize 49.99 Diagram Check F1 F2 F3 **F4** DATA HOLD PRINT ò. START /STOP lin W/Wh QUALITY \odot SET UP ESC 6 Δ (ε

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)

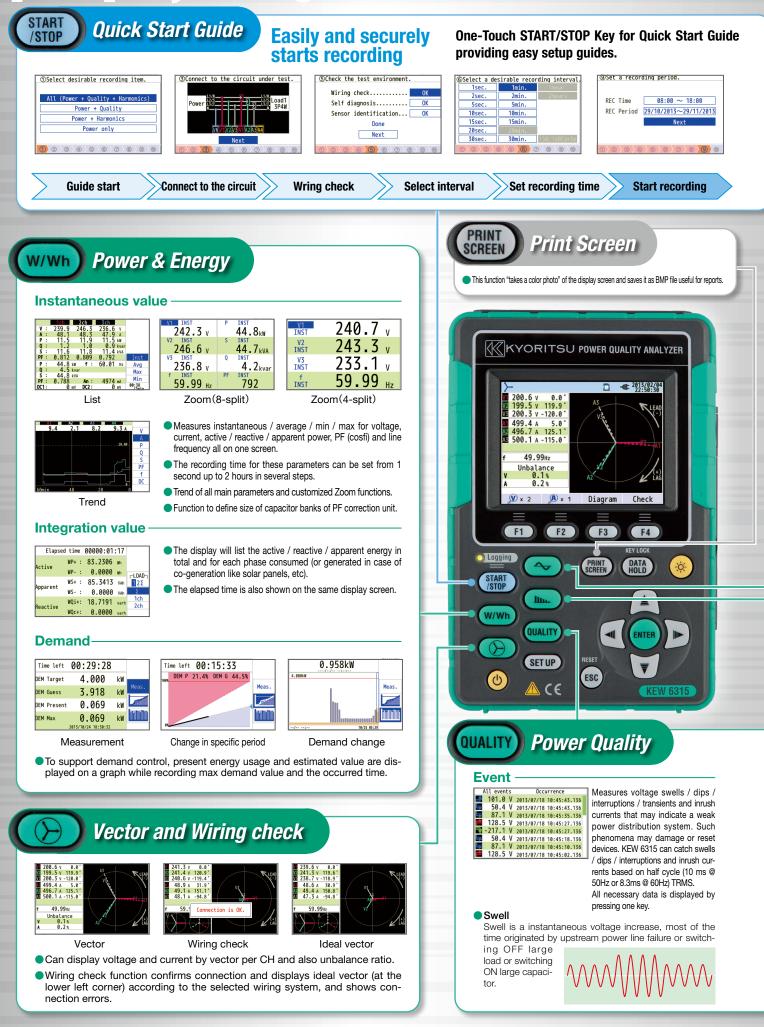
Complies with the International Standard IEC 61000-4-30 Class S and the European Standard EN 50160

- 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. EN 50160 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.
- IEC 61010-1 CAT IV 300V, CAT II 600V, CAT II 1000V

KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

www.kew-ltd.co.jp

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



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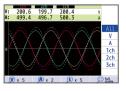
Windows software for data analysis and setting via USB port

Automatic creation of graph and list from recorded data.

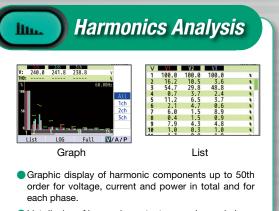
- Uniform management of setting and recorded data acquired from multiple devices.
- Data can be expressed in crude oil and CO₂ equivalent values in the report.
- (System requirements)

- (System requirements) OS : Windows[®] 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.

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.



- 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.

🔵 Dip

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

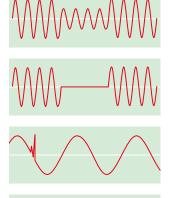
Interruption is a power line cut-off from any source of supply. It can be caused by a fault in a power line, which causes switch gear to open.

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

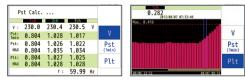
Inrush current is a surge current that happens when motors, large or low-impedance loads are switched ON. Then the current will stabilize as soon as the load has reached normal working conditions.



Flicker

Designed to meet IEC 61000-4-15

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..



List

Trend graph

Displays Pst (1min) on a trend graph.

Real time and Remote measurements



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

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

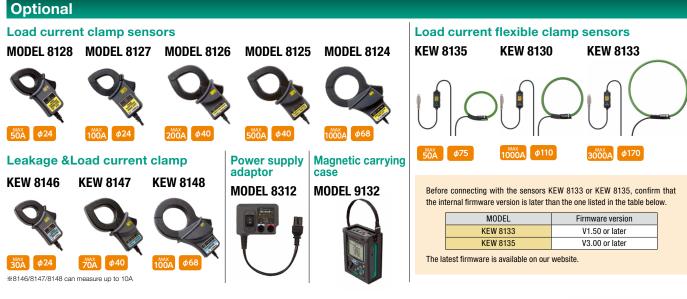
SD cards up to 2GB can be used Possible recording time

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 pos-sible time will be shortened by recording such events.





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)



Photo: KEW6315-03



Specifications

Viring connections	1P2W, 1P3W, 3P3W, 3P4W Active power			
leasurements and	Voltage, Current, Frequency, Active power, Reactive power,	Accuracy	±0.3%rdg±0.2%f.s. + accuracy of clamp sensor (power factor 1, sine wave, 40 - 70Hz)	
parameters	Apparent power, Active energy, Reactive energy, Apparent energy, Power factor $(\cos\theta)$, Neutral current,	Influence of power factor	$\pm 1.0\%$ rdg (reading at power factor 0.5 against power factor 1)	
	Demand, Harmonics, Quality (Swell/Dip/Interruption, Transients/Over voltage, Inrush current, Unbalance rate),	Frequency meter range	40 - 70Hz	
	Capacitance calculation for PF correction unit. Flicker	Power source (AC Line)	AC100 - 240V/50 - 60Hz/7VA max	
/oltage (RMS)		Power source (DC battery)	Alkaline size AA battery LR6 or Ni-MH (HR15-51)×6 Battery life approx. 3 h (LR6, Backlight OFF)	
Range	600.0/1000V	- Internal memory	FLASH memory (4MB)	
Accuracy	600.0V Range : (sine wave 40 - 70Hz)	PC card interface	SD card (2GB)	
	10% - 150% against 100V or more of nominal V : Nominal V±0.5% Out of above range : ±0.2%rdg±0.2%f.s.	PC communicationinterface	USB Ver2.0, Bluetooth [®] Ver2.1+EDR Class2	
	1000V Range : ±0.2%rdg±0.2%f.s.(sine wave 40 - 70Hz)	Display	320×240(RGB)Pixel, 3.5inch color TFT display	
Allowable input	1 - 120% of each range (rms). 200% of each range (peak)	Display update period	1 sec	
Display range	0.15 - 130% of each range	Temperature and humidity range	23±5°C, less than 85% RH (without condensation)	
Crest factor	3 or less	Operating temperature and humidity range	0 - 45°C, leaa than 85% RH (without condensation)	
Sampling speed of Voltage transient	24µs	Storage temperature and humidity range	-20 - 60°C, less than 85% RH(without condensation)	
Current (RMS)		Applicable Standards	IEC 61010-1 CAT IV 300V, CAT II 600V,	
	8128 (50A type) 5000mA/50.00A/AUTO 8127 (100A type) 10.00/100.0A/AUTO 8126 (200A type) 20.00/200.0A/AUTO		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	
	8125 (500A type) 50.00/500.0A/AUTO	Dimension/Weight	175 (L) × 120 (W) × 68 (D) mm/approx 900g	
	8124 (1000A type) 100.0/1000A/AUTO 8146/8147/8148 (10A type) 1000mA/10.00A/AUTO 8130 (1000A type) 100.0/1000A/AUTO 8133 (3000A type) 300.0/3000A/AUTO 8135 (50A type) 5000mA/50.00A/AUTO	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 plate×6, KEW Windows for KEW6315 (software).	
Accuracy	±0.2%rdg±0.2%f.s.+accuracy of clamp sensor (sine wave, 40 - 70Hz)		Quick manual, Alkaline size AA battery (LR6)×6	
Allowable input	1 - 110% of each range (rms). 200% of each range (peak)	Optional accessories	8124, 8125, 8126, 8127, 8128 (Load current clamp sensor),	
Display range	0.15 - 130% of each range		8130, 8133, 8135 (Flexible clamp sensor), 8146, 8147, 8148 (Leakage and Load current clamp sensor),	
Crest factor	3 or less		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 :



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