POWER METERS

Selection Guide of Power Meters								
		Power Meter	Power Quality Analyzer		Loggers			
		6305	6315	5010	5020	5050		
Appearance		CONTROL OF THE CONTRO		BCGCCCALLER DO O		1 155 150 15		
Voltage [V]		✓	✓	✓	✓	✓		
Current [A]		✓	✓	✓	✓	✓		
lor Resistive leakage current [mA]		_	-	-	_	1		
Power [W]		✓	1	-	_	-		
Frequency [Hz]		✓	✓		-	✓		
Energy [Wh]		✓	✓		-	-		
Harmonics		-	✓		-	-		
Power Quality	Swell	-	✓	-	✓	✓		
	Dip	-	✓	-	✓	✓		
	Interruption	-	✓	-	✓	✓		
	Transients	_	✓	-	_	✓		
	Inrush Current	_	✓	✓	✓	✓		
Memory		SD card	SD card	Inner memory	Inner memory	SD card		
Number of Input Channel		6ch (V3, A3)	7ch (V3, A4)	3ch	3ch	5ch (V1, A4)		

Power Quality

Swell

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

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.

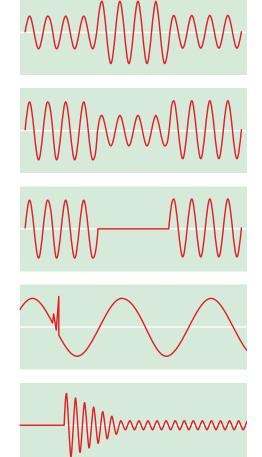
Transients/Over Voltage (Impulse)

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 24 μs .

Inrush Current

Inrush current is a surge current that happens when motors, large or low-impedance loads are switched ON.

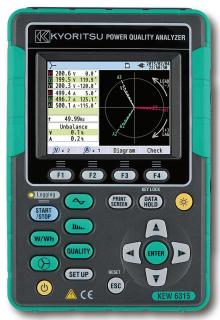
Then the current will stabilize as soon as the load has reached normal working conditions.



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%rdq(energy),

 $\pm 0.2\%$ rdg(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 connec	ctions	1P2W, 1P3W, 3P3W, 3P4W			
Measurements and parameters		Voltage, Current, Frequency, Active power, Reactive power, Apparent power, Active energy, Reactive energy, Apparent energy, Power factor (cose), Neutral current, Transients/ Over Demand, Harmonics, Quality(Swell/Dip/Interruption, voltage, Inrush current, Unbalance rate), Phase advance condenser, IEC Flicker			
Other function	ns	Digital output function, External communication function, Scaling function			
Voltage [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	24μs			
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 8129(3000A type): 300.0/1000/3000A			
	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			
Active 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)	LR6 or Ni-MH(HR15-51) × 6 Battery life approx. 3h (LR6,Backlight OFF)			
Memory card		SD card (2GB)			
PC communic	ation interface	USB Ver2.0, Bluetooth Ver2.1+EDR Class2			
Display		320 × 240(RGB)Pixel, 3.5inch color TFT display			
Temperature	and humidity range	23±5°C less than 85% RH (without condensation)			
Operating tempe	rature 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		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/W	eight	175(L) × 120(W) × 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 × 6, KEW Windows for KEW6315(software), Quick manual, LR6(AA) × 6			

Simultaneous Power & Power quality measurements



Power & Energy



Elapsed time 00000:01:17

Instantaneous value

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



Vector

Can display voltage and current by vector per Ch.



• Displays voltage and current on each Ch by waveform.





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



	All eve	ents	Occurrence		
	101.	0 V	2013/07/18 10:45:43.136		
	50.	4 V	2013/07/18 10:45:43.136		
	87.	1 V	2013/07/18 10:45:35.136		
	128.	5 V	2013/07/18 10:45:27.136		
	-217.	1 V	2013/07/18 10:45:27.136		
	50.	4 V	2013/07/18 10:45:18.136		
S	87.	1 V	2013/07/18 10:45:10.136		
5	128.	5 V	2013/07/18 10:45:02.136		

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.



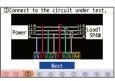
 Measures voltage swells / dips / interruptions / transients and inrush currents that may indicate a weak power distribution system. Such phenomena may damage or reset devices. All necessary data is displayed by pressing one key.

POWER QUALITY ANALYZER



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











Guide start

Connect to the circuit

Wring check

Select interval

Set recording time

Start recording

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.
- EN50160 report can be generated after survey.

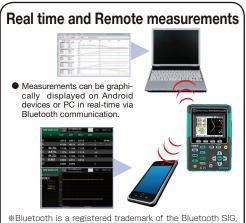


(System requirements)

- OS: Windows[®] Vista/7/8/10
 Display: XGA(Resolution 1024 × 768 dots) or more
- Hard-disk: Space required 1 Gbyteor 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.





Android is a registered trademark of the Google Inc.

Optional Accessories





MODEL 8128





MODEL 8126





MODEL 8124

Leakage &Load current clamp





Can you close your distribution board



KEW 8148

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

KEW 8147

Load current flexible clamp sensors

MODEL 8127



8129-01 (for 1ch) 8129-02 (for 2ch) 8129-03 (for 3ch)















KEW 8146

and with two clever option extras: a magnetic case(9132) for attaching it

door during surveys? The KEW6315 facilitates safe test-

ing by being extremely compact to the sides of metal enclosures and a power supply adaptor(8312) which takes the power for the instrument from the supply being measured.

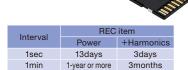


MODEL 8312 MODEL 9132

SD card Interface

SD cards up to 2GB can be used

Possible recording time When the 2GB of SD is used



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



KEW 6315-03 8130(1000A) × 3 Carrying case: 9135

