Optional

Load current clamp sensors

MODEL 8128 MODEL 8127 MODEL 8126 **MODEL 8125 MODEL 8124**













Load current flexible clamp sensors

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

KEW 8130



POWER QUALITY ANALYZER

KEW 6315



Zoom

DEM P 21.4% DEM 6 44.5

measurements

Helpful support functions

for easy and reliable measurement

Measurement with high accuracy

Complies with the International Standard

Guaranteed accuracy: $\pm 0.3\%$ rdg (energy),

Time left 00:15:33

Trend Customize

2013/02/61

Simultaneous Power & Power quality

recorded at all CHs. (Voltage: 3ch, Current 4ch)

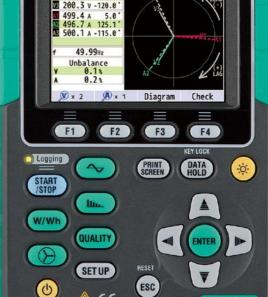
Power/ Harmonics/ Waveform/ Power quality are

Quick Start Guide, Wiring check and Sensor detection

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

±0.2%rdq (voltage/current)







50.00Hz

1ch

2ch 3ch

2013/10/17

Occurrence

101.0 V 2013/07/18 10:45:43.136

50.4 V 2013/07/18 10:45:43.136

Various Clamp Current Sensors

Various types of clamp and flexible sensors are available: from 1000mA Range up to 3000A Range and Earth leakage measurements

EN50160 report can be generated after survey by PC software.

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

Leakage &Load current clamp

KEW 8147 KEW 8148











Magnetic carrying





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.

KEW 6315-01

8125(500A)×3 **KEW 6315-03** 8130(1000A)×3

Set Model



Specifications

W	iring 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#), Neutral current, Demand, Harmonics, Quality (Swell/Dip/Interruption, Transients/Over voltage, Inrush current, Unbalance rate), Capacitance calculation for PF correction unit, Flicker		
Vo	oltage (RMS)			
	Range	600.0/1000V		
	Accuracy	±0.2%rdg±0.2%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		
	Sampling speed of Voltage transient	2.4µs		
Cı	urrent (RMS)			
	Range	8128 (50A type) : 5/50A/AUTO 8127 (100A type) : 10/100A/AUTO 8126 (200A type) : 20/200A/AUTO 8125 (500A type) : 50/500A/AUTO 8124/8130 (1000A type) : 100/1000A/AUTO 8146/8147/8148 (10A type) : 1/10A/AUTO 8129 (3000A type) : 300/1000/3000A		
	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		
Ad	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 supply(AC Line)	AC100~240V/50~60Hz/7VA max		
Power supply(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	IEC61010-1		
Dimension/Weight	175(L) × 120(W) × 68(D) mm/approx 900g		
Included accessories	7141B(Voltage test lead), 7170(Power cord), 719(USB cable), 8326-02(SD card 2GS), 7219(USB cable), 8326-02(SD card 2GS), 7215(Carrying case for KEW6315) 9135(Carrying case for KEW6315-03), Input terminal plate×6, KEW Windows for KEW6315(software), Calibration Certificate Quick manual, Alkaline size AA battery(LR6)×6		
Optional accessories	8124, 8125, 8126, 8127, 8128(Load current clamp sensor), 8129, 8130(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 :



KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

KEW 6315-1E Feb. 14 AD

2-5-20, Nakane, Meguro-ku, Tokyo, 152-0031 Japan Phone:+81-3-3723-0131 Fax:+81-3-3723-0152 E-mail:info-eng@kew-ltd.co.jp

http://www.kew-ltd.co.jp





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

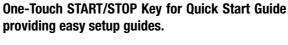
POWER QUALITY ANALYZER KEW 6315

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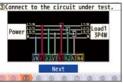
Quick Start Guide

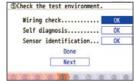
Easily and securely

starts recording











88:00 ~ 18:00 29/10/2013~29/11/2013

Guide start

Connect to the circuit

Wring check

Select interval

Set recording time

Start recording

Power & Energy

Instantaneous value

		5ch	2ch	Tch		
	٧	236.6	246.3	239.9	:	٧
	A	47.9	48.3	48.1	:	A
	100	11.5	11.9	11.5	:	P
	kyar	0.9	1.0	1.2	:	Q
	kva .	11.4	11.8	11.6	:	5
		0.792	8.889	0.812	:	PF
Avg	HE	60.01	w f:	44.8	:	P
Max			yar	4.5	:	Q
			VA	44.8	:	5
Min	Ace	4974	An :	0.788	:	PF
88;38	mV .	0	W DC2:	0	1	DC1

List

792 Zoom(8-split)

246.6 v

236.8 v

44.8kW

44.7 KVA

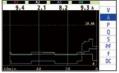
4.2kva

59.99 Hz Zoom(4-split)

240.7 v

243.3 v

233.1 v



Trend

Measures instantaneous / average / min / max for voltage, current, active / reactive / apparent power, PF (cosfi) and line frequency all on one screen.

V3 INST

- 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

Etapse	g time	10:00000	:17	
Active	MP+ :	83.2306	In.	
ACTIVE	WP- :	0.0000	Wh.	-LOAD-
	WS+ :	85.3413	VAh	12Σ
Apparent	WS- :	0.0000	VAh	- 1
Reactive	WQi+:	18.7191	varh	1ch 2ch
neactive	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.

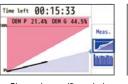
Demand









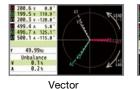


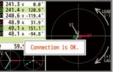
Change in specific period

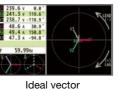
Demand change

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

Vector and Wiring check







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

Wiring check function confirms connection and displays ideal vector (at the lower left corner) according to the selected wiring system, and shows connection errors

Wiring check

Print Screen

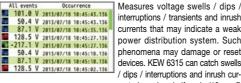
This function "takes a color photo" of the display screen and saves it as BMP file useful for reports.



Power Quality QUALITY

SET UP

Event



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 is a instantaneous voltage increase, most of the time originated by upstream power line failure or switch ing OFF large

load or switching ON large capaci-

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)

 OS: Windows[®]8/7/Vista/XP Display: XGA(Resolution 1024×768 dots) or more

Waveform

- 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

Harmonics Analysis

Displays voltage and current

Scales of voltage/current

axis and time axis are se-

lectable, and also full-scale

function for automatic scal-

on each Ch by waveform.





Android devices or PC in real-time via Bluetooth communication.

*Bluetooth is a registered trademark of the Android is a registered trademark of the

Real time and Remote

measurements

Measurements can be

graphically displayed on

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.

Graphic display of harmonic components up to 50th

List display of harmonic content, rms value and phase

Can analyze harmonic currents that may contribute

to damage capacitor banks for PF correction, over-

heating transformers / neutral conductors / cables.

order for voltage, current and power in total and for

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)

Graph

angle of each order.

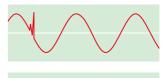
unwanted tripping of breakers.

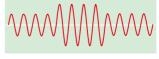
Transient is a very fast and momentary voltage increase that can seriously damage devices connected to a power line. It may be caused by electrical switching events such as instable contacts of relays, tripping of breakers but also by lightening. KEW 6315 can catch Transients from 2.4 us.

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.



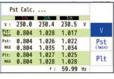


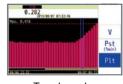


Flicker

Designed to meet 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