POWER METERS

		Select	tion Guide of Power Met	ers		
		Power Meter	Power Quality Analyzer		Loggers	
		6305	6315	5010	5020	5050
Appearance		TOTAL STATE OF THE		OCCUPANTAL CONTRACTOR OF THE PROPERTY OF THE P		1 155 150 15
Voltage [V]		✓	✓	✓	✓	✓
Current [A]		✓	✓	✓	✓	✓
Ior Resistive lea	kage 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.

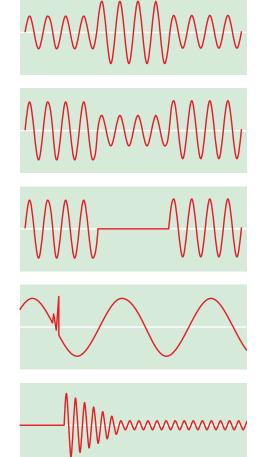
Transients/Over Voltage (Impulse)

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 METER



- Comprehensive real-time monitoring, recording and analysis of single and 3-phase systems
- Voltage, Current, Power Factor and Frequency measurements
- Power analysis (Active, Apparent and Reactive power)
- Energy analysis (Active, Apparent and Reactive energy)
- Active power accuracy: ±0.3%rdg±0.2%f.s.
- · Automatic wiring check function to prevent incorrect connections
- Large memory capability (2 GB) using built-in SD card Interface
- Recording interval can be set between 1second and 1hour.
- Real time & remote measurements using Android application
- Windows software for data analysis and setting via USB port or Bluetooth

As easy as $1 \rightarrow 2 \rightarrow 3$!

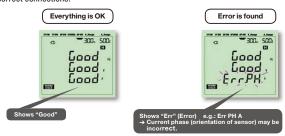
Starting from OFF position and rotating the Rotary switch clockwise, KEW6305 is ready to use in 3 simple steps

1. SET UP

Rotate the Rotary switch to SET UP. All the instrument settings can be easily selected by using instrument buttons. All the settings can also be selected by connecting KEW6305 to a PC via USB or Bluetooth.

2. WIRING CHECK-

Rotate the Rotary switch to WIRING CHECK. The Automatic Wiring check function will prevent incorrect connections, check the connections and display the results on the LCD. Error messages appear on display to indicate wrong orientation of Clamp sensors or incorrect connections.



3. W/Wh/DEMAND Measurements

Rotate the Rotary switch to W/Wh/DEMAND. The instrument can perform Instantaneous, Integration and DEMAND measurements. START / STOP button to start / stop recording

- · Synchronous measurements between two units of KEW6305
- Wide selection of clamp sensors allow measurements from 0.1A to 3000A
- . The instrument automatically recognizes what kind of clamp sensor is connected to it
- · Double power supply system via AC line and batteries

	6305			
Wiring connections	1P2W, 1P3W, 3P3W, 3P3W3A, 3P4W			
Measurements	Voltage, Current, Frequency, Active power			
Parameters	Apparent power, Reactive power, Active energy, Apparent energy, Reactive energy, Power factor ($\cos \theta$), Neutral current			
Voltage range[RMS]	150.0/300.0/600.0V			
Voltage accuracy	±0.2%rdg±0.2%f.s. (sine wave, 45 - 65Hz)			
Current range[RMS]	10.00/50.00/100.0/250.0/500.0A/Auto (with clamp sensor MODEL8125)			
Current accuracy ±0.2%rdg±0.2%f.s.+ Accuracy of Clamp sensor (sine wave, 4 *+1%f.s. at the lowest range.				
Effective input range	10 - 110% of rating range			
Display range	5 - 130% of each range (Voltage) 1 - 130% of each range (Current)			
Crest factor	Voltage: up to 2.5, Current: up to 3.0 (with 90% fs or less)			
Active power accuracy	±0.3%rdg±0.2%f.s.+ Accuracy of Clamp sensor *+1%f.s. when the lowest current ranges is selected.			
Effect of power factor	Active power: $\pm 1.0\%$ rdg cos $\theta = \pm 0.5$ (PF=1)			
Frequency meter range	40.0 - 70.0Hz			
Frequency meter accuracy	±3dgt			
Accuracy precondition	PF=1, Sine wave, 45 - 65Hz, 23°C±5°C			
Display update period	1 second			
Operating temperature and humidity range	0 - +50°C, less than 85% RH (without condensation)			
Storage temperature and humidity range	-20 - +60°C, less than 85% RH (without condensation)			
PC communication interface	USB, Bluetooth			
PC card interface	SD card (2GB)			
Safety standard	IEC 61010-1 CAT Ⅲ 600V			
Power source (AC Line)	AC100 - 240V±10% (50/60Hz)			
Power source	LR6 or Ni-MH(HR-15-51) × 6 (Battery charger not included),			
(DC battery)	Battery life approx. 15h (LR6)			
Power consumption	10VA (max.)			
Dimension	$175(L) \times 120(W) \times 65(D)$ mm			
Weight	Approx. 800g (including batteries)			
Accessories	7141B (Voltage test lead set: 4pcs), 7148 (USB cable),			
	7170(Powercord), 9125(Carrying case),			
	8326-02 (SD card 2GB), KEW Windows (PC Software),			
Ontional	Battery(LR6) × 6, Quick manual			
Optional	8124, 8125, 8126, 8127, 8128(Clamp sensor), 8129, 8130(Flexible clamp sensor),			
	8312(Power supply adaptor), 9132(Magnetic carrying case)			
	or 12(1 or or outprit dauptor), or oz(magnotio our fing outp)			



POWER METER

Bluetooth communication with Android application

Free Andoroid software "KEW Smart 6305" is available on download site





*communication charges may be incurred separately

Download

Real time & remote measurements using Android application

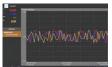
Measurement can be displayed in graphic or numeric forms on Android devices in real-time via Bluetooth communication.

Remote checking of measurements is possible without accessing KEW6305.



Max communication distance: 10m

Android device



Real-time display

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

Windows software

to download application

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.





Windows® Vista/7/8/10 Display: XGA(Resolution 1024 × 768 dots) or more

Hard-disk: space required 1Gbyte or more With CD-ROM drive and USB port .NET Framework (3.5 or more)

* Windows® is a registered trademark of Microsoft in the United States.

SD card Interface



Data saved on:		SD card	Internal memory
Capacity		2GB	3MB
Instantaneous measureme	ent	6,670,000	10,000
Internation (demand	1 sec.	17 days	33 minutes
Integration / demand measurement interval	1 min.	992 days	33 hours
moadurement liller val	30 min.	3 years or more	42 days
Max number of file		511	4

*in case the SD card is empty

SD cards up to 2GB can be used.

Set Model





Optional

Load current clamp sensors

MODEL 8128 MODEL 8127 MODEL 8126 MODEL 8125















MAX 3000A Ø150



Power supply adaptor

MODEL 8312

For taking single phase supply (100-240V) from the test leads to power the instrument (FUSE: 8923)







For mounting inside metal distribution boards



MAX | Ø110 | C | E

