



# POWER METER KEW 6305



- 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)
- Automatic wiring check function to prevent incorrect connections
- Large memory capability (2 GB) using built-in SD card interface
- Real time & remote measurements using Android application
- Windows software for data analysis and setting via USB port or Bluetooth
- Synchronous measurements between two unit of KEW6305
- Wide selection of clamp sensors allow measurements from 10 mA to 3000A

# A simple and inexpensive way for Cost Savings through Energy monitoring

# 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

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

Rotate the Rotary switch to WIRING CHECK. The Automatic Wiring check function will prevent incorrect connections, check the connections and display the

Error messages appear on display to indicate wrong orientation of Clamp sensors or incorrect connections.



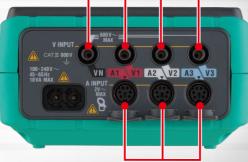


Dood bood

Error is found

ows "Err" (Error) e.g.: Err PH A Current phase (orientation of sensor) may be incorrect

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



Current Input Terminals (With cover)





# <u>Datacan besaved on SD card or transferred to a PC</u>

## Data transmission via USB

Data saved on an SD card or internal memory of KEW6305 can be directly transferred to a computer via USB. USB ver. 2.0 is supported.

## SD card Interface

SD cards up to 2GB can be used.



### Max amount of data (reference)

Date served In:		SD card		Internal Memory
Capacity		1GB	2GB	3MB
Instantaneous measurement		3,300,00	6,600,000	10,000
Integration / demand measurement interval	1 sec.	8 days	16 days	33 minutes
	1 min.	480 days	990 days	33 hours
	30 min.	3 years or more		41 days
Max number of file				

\*in case the SD card is empty

#### Data check

The last 10 measurements saved on SD card or internal memory are displayed on the LCD

This function allows quick checks of the recorded data without using a PC.

## 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.



Windows®7(32/64bit)/Vista/XP PC with CPU: Pentium 4 1.6GHz or higher 512Mbyte or more (Windows XP) Memory:

1Gbyte or more (Windows 7/Vista) Resolution 1024×768 dots 65536 colors or more

KEW Windows

NFT Framework (3.5 or more) Windows® is a registered trademark of Microsoft in the United States

\* Pentium is registered trademark of Intel in the United States

# Various measurements by using applications for PCs and Android devices

## PC software application to check synchronous measurements on 2 power lines

Two units of KEW6305 can be used simultaneously and perform synchronous measurements on 2 power lines. PC software application can synchronize recording intervals and internal clocks of two KEW6305 via Bluetooth communication or USB port. Measurements will be transmitted to the PC.

Parameters such as active, reactive and apparent power; active, reactive and apparent energy and demand will be graphically displayed in real-time. \* For wireless communication, a PC with Bluetooth function is required.





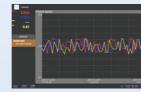
Combined values will be displayed on a graph in real-time.

## Real time & remote measurements using Android application

Measurements can be displayed in graphic or numeric forms on Android devices i nreal-time via Bluetooth communication.

Remote checking of measurements is possible without accessing KEW6305.

Supporting Android ver. 2.2 - 3.2 Bluetooth is a registered trademark of the Bluetooth SIG, Inc. Android and Android Market are registered trademark of the



Real-time display



Smart-phone or tablet device





## Features

## Power and Energy measurements

Voltage (True RMS), Current (True RMS), active power, apparent power, reactive power, active energy, apparent energy, reactive energy, power factor (cost), frequency, demand measurement, current flowing on the neutral line (only

## Recording interval can be set between 1 second and 1 hour

1/2/5/10/15/20/30 second/seconds 1/2/5/10/15/20/30 minute/minutes 1hour

## Power and the power factor for each phase are shown

Not only the total power and power factor are shown but also the breakdown related to each phase

## Double power supply system via AC line and batteries

In case of a mains blackout, the power to the instrument is automatically supplied by the Alkaline batteries (Max continuous measurement: 15 hours)

In the case of both power supplies to the instrument being interrupted, recorded data just before the event of the interruption will be saved. Rechargeable nickel-hydrogen batteries can be used

## **Optional**

#### Load current clamp sensors

### **MODEL 8128**

AC 5A



## MODEL 8126 | MODEL 8125 |





## **MODEL 8124**



## Load current flexible clamp sensors

#### **KEW 8129**

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

FLEXIBLE CLAMP SENSOR CAN MEASURE UP TO AC3000A HIGH CURRENT





#### Can you close your distribution board door during surveys?

The KEW6305 facilitates safe testing by being extremely compact and with two clever option extras: a magnetic case for attaching it to the sides of metal enclosures and a power supply adaptor which takes the power for the instrument from the supply being measured.

## Power supply adaptor

**MODEL 8312** 

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





## Magnetic carrying case **MODEL 9132**

For mounting inside metal distribution boards



## **Set Model**

### **KEW 6305-01**

**Calibration certificate** 

KFW 6305 x 1 MODEL 8125 x 3 7141B(Voltage test lead set: 4pcs) × 1 7148(USB cable) × 1 7170(Power cord)  $\times$  1 8326-02(SD card [2GB]) × 1 9125(Carrying case)  $\times$  1 PC Software × 1 Battery × 6 Quick manual × 1



## KEW 6305 Specifications

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 Ranges	150/300/600V (CF:2.5 or less.)		
Voltage Accuracy	±0.3%rdg±0.2%f.s. (sine wave, 45~65Hz)		
Current Ranges FRES	10/50/100/250/500A/Auto(with clamp sensor MODEL8125		
Current Accuracy	±0.3%rdg±0.2%f.s.+ Accuracy of Clamp sensor (sine wave, 45~65Hz)		
Frequency meter range	40~70Hz		
Effective input range	10~110% of rating range		
Display ranges	5~120% of each range (Voltage) 1~120% of each range (Current)		
Accuracy precondition	PF=1, Sine wave, 45~65Hz, 23±5		
Active power accuracy	±0.5%rdg±0.2%f.s.+ Accuracy of Clamp sensor		
Frequency meter accuracy	±3dgt		
Effect of power factor	Active power: $\pm 1.0\%$ rdg cos $\theta = \pm 0.5$ (PF=1)		
Display update period	1 second		
Operating temperature and humidity ranges	0~+50, less than 85% RH (without condensation)		
Storage temperature and humidity ranges	-20~+60, less than 85% RH (without condensation)		
Crest factor	Voltage: up to 2.5, Current: up to 3.0 (with 90% fs or less)		
PC communication interface	USB、Bluetooth		
PC card interface	SD card (2GB)		
Safety standard	IEC61010-1 CAT.III 600V		
Power supply (AC Line)	AC100~240V±10%(50/60Hz)		
Power supply (DC battery)	LR6 or Ni-MH(HR-15-51)×6 (Battery charger not included), Battery life approx. 15h		
Power consumption	10VAmax.		
Dimension/Weight	175 ( L ) $\times$ 120 ( W ) $\times$ 65 ( D ) mm/Approx. 800g (including batteries)		
Accessories	7141B (Voltage test lead set: 4pcs), 7148 (USB cable), 7170(Powe cord), 9125(Carrying case), 8326-02 (SD card 2GB), KEW WIN DOWS (PC Software). Batteries × 6, Quick manual, Calibratic certificate		
Optional	8124, 8125, 8126, 8127, 8128 (Clamp sensor) 8129 (Flexible clamp sensor) 8312 (Power supply adaptor), 9132 (Magnetic carrying case)		



Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely 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.

No.5-20, Nakane 2-chome, Meguro-ku, Tokyo, 152-0031 Japan Phone:81-3-3723-0131 Fax:81-3-3723-0152

E-mail:info@kew-ltd.co.jp Factory: Ehime, Japan

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



