NEW

Quality and reliability is our tradition

KYORITSU

POWER METER
KEW 6305

Compact Power meter for cost savings through Energy monitoring

- *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*
- *Real time & remote measurements using Android application*
- *Windows software for data analysis and setting via USB port or Bluetooth*
- *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*

KYORITSU ELECTRICAL INSTRUMENTS WORKS,LTD.

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

A simple and inexpensive way for Cost Savings through Energy monitoring

As easy as 1 → 2 → 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.

Everything is OK

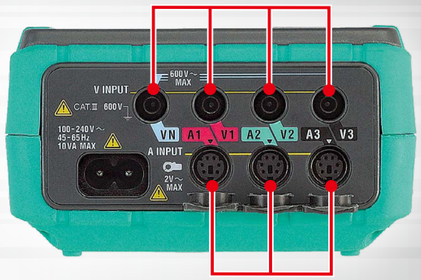
Shows "Good"

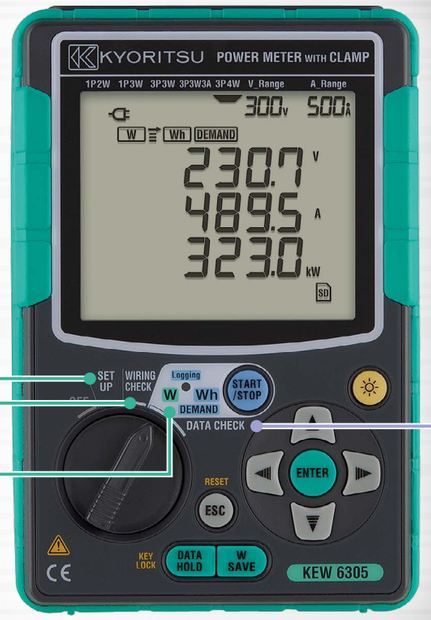
Error is found

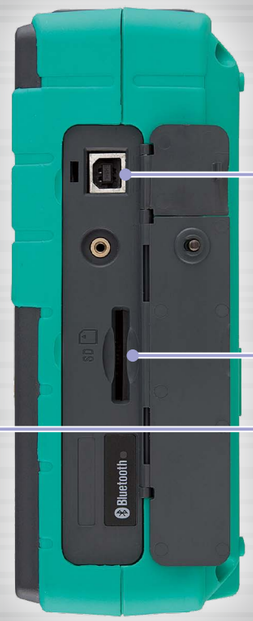
Shows "Err" (Error) e.g.: Err PH A
→ Current phase (orientation of sensor) may be incorrect.

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







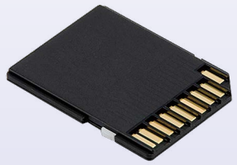
Data can be saved on SD card or transferred to a PC

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)

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

*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 CO_2 equivalent values in the report.

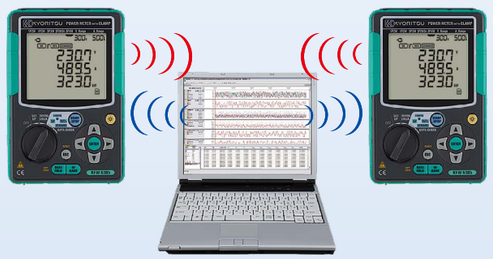
【System requirements】
OS: Windows® 7(32/64bit)/Vista/XP
Display: XGA(Resolution 1024×768 dots) or more
Hard-disk: space required 1Gbyte or more
Other: With CD-ROM drive and USB port
.NET Framework (3.5 or more)

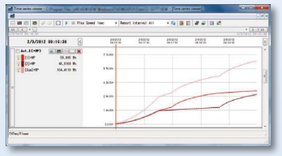
* Windows® is a registered trademark of Microsoft in the United States.

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.



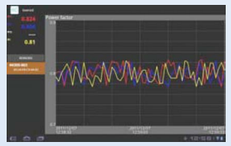


Combined values will be displayed on a graph in real-time.

Real time & remote measurements using Android application

Measurements can be displayed in graphic or numeric forms on Android devices in real-time via Bluetooth communication.
Remote checking of measurements is possible without accessing KEW6305.

Max communication distance: 10m
Supporting Android ver. 3.0 - 3.2
Bluetooth is a registered trademark of the Bluetooth SIG, Inc.
Android and Android Market are registered trademark of the Google SIG, Inc.



Real-time display

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 (cosθ), frequency, demand measurement, current flowing on the neutral line (only on 3phase 4 wire measurement)

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 (MAX50A) | φ24

MODEL 8127

MAX AC 100A | φ24

MODEL 8126

MAX AC 200A | φ40

MODEL 8125

MAX AC 500A | φ40

MODEL 8124

MAX AC1000A | φ68

Load current flexible clamp sensors

KEW 8129

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

FLEXIBLE CLAMP SENSOR
WITH 3 RANGES
AC300, 1000, 3000A

MAX AC3000A | φ150

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

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

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 θ), Neutral current
Voltage range TRUE RMS	150.0/300.0/600.0V
Voltage accuracy	±0.2%rdg±0.2%f.s. (sine wave, 45~65Hz)
Current range TRUE 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, 45~65Hz) *+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: ±1.0%rdg cos θ=±0.5 (PF=1)
Frequency meter range	40.0~70.0Hz
Frequency meter accuracy	±3dgt
Accuracy precondition	PF=1, Sine wave, 45~65Hz, 23℃±5℃
Display update period	1 second
Operating temperature and humidity range	0~+50℃, less than 85% RH (without condensation)
Storage temperature and humidity range	-20~+60℃, less than 85% RH (without condensation)
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 (LR6)
Power consumption	10VA (max.)
Dimension Weight	175(L)×120(W)×65(D)mm Approx. 800g (including batteries)
Included accessories	7141B (Voltage test lead set: 4pcs), 7148 (USB cable), 7170(Powercord), 9125(Carrying case), 8326-02 (SD card 2GB), KEW WINDOWS (PC Software), Battery(LR6)×6, Quick manual, Calibration certificate
Optional accessories	8124, 8125, 8126, 8127, 8128 (Clamp sensor), 8129 (Flexible clamp sensor), 8312 (Power supply adaptor), 9132 (Magnetic carrying case)

Safety Warnings : 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.

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

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