

POWER METER

KEW 6305

RMS USB Bluetooth External Power Supply



CE

- 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: $\pm 0.3\% \text{rdg} \pm 0.2\% \text{f.s.}$
- 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
- 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

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

	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 θ), Neutral current
Voltage range[RMS]	150.0/300.0/600.0V
Voltage accuracy	$\pm 0.2\% \text{rdg} \pm 0.2\% \text{f.s.}$ (sine wave, 45 - 65Hz)
Current range[RMS]	10.00/50.00/100.0/250.0/500.0A/Auto (with clamp sensor MODEL8125)
Current accuracy	$\pm 0.2\% \text{rdg} \pm 0.2\% \text{f.s.}$ + Accuracy of Clamp sensor (sine wave, 45 - 65Hz) * $\pm 1\% \text{f.s.}$ 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	$\pm 0.3\% \text{rdg} \pm 0.2\% \text{f.s.}$ + Accuracy of Clamp sensor * $\pm 1\% \text{f.s.}$ when the lowest current ranges is selected.
Effect of power factor	Active power: $\pm 1.0\% \text{rdg} \cos \theta = \pm 0.5$ (PF=1)
Frequency meter range	40.0 - 70.0Hz
Frequency meter accuracy	$\pm 3 \text{dgt}$
Accuracy precondition	PF=1, Sine wave, 45 - 65Hz, 23°C $\pm 5^\circ \text{C}$
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 $\pm 10\%$ (50/60Hz)
Power source (DC battery)	LR6 or Ni-MH(HR-15-51) $\times 6$ (Battery charger not included), 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), Battery(LR6) $\times 6$, Quick manual
Optional	8124, 8125, 8126, 8127, 8128(Clamp sensor), 8129, 8130(Flexible clamp sensor), 8312(Power supply adaptor), 9132(Magnetic carrying case)