Power Quality Analyser

The perfect tool for energy saving and power quality control!







K6315

- Simultaneous Power & Power quality measurements
 Power / Harmonics/ Waveform/ Power quality are recorded at all CHs. (Voltage: 3ch, Current 4ch)

 Helpful support functions
 Quick Start Guide, Wiring check and Sensor detection for easy and reliable
- measurement
 Measurement with high accuracy
 Guaranteed accuracy: ±0.3%rdg (energy), ±0.2%rdg (voltage/ current)
 Complies with the International Standard IEC 61000-4-30 Class S and the European Standard EN50160
- Remote monitoring on PC and Android device
 Remote checking of measurement in real-time is possible via Bluetooth
 communication.
 Recorded data can be saved in the supplied SD card.
- EN50160 report can be generated after survey by PC software. Various Clamp Current Sensors
- Various types of clamp and flexible sensors are available: from 1000mA Range up to 3000A Range and Earth leakage measurements
 Energy consumption check on site
- Trend and demand graphs for easy recognition. TFT color display with high resolution.
- IEC 61010-1 CAT IV 300V, CAT III 600V, CAT II 1000V

Specifications

| - | | |
|--|---|--|
| Wiring 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 | |
| Voltage (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 | 2.4µ s | |
| Current (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 (1000A type) : 10/1000A/AUTO 81248130 (1000A type) : 100/1000A/AUTO 8146/8147/8148 (10A type) : 1/10A/AUTO 8129 (3000A type) : 30/01000/3000A | |
| 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 | |
| Active 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) | |

Free Android software "KEW smart 6315" is available

on "Google Play Store" (*)

Supporting Android ver. 2.2 - 4.4 WVGA (800 × 480) resolution or higher

| Frequency meter range | 40 ~ 70Hz |
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| Power supply(AC Line) | AC100~ 240V/50~ 60Hz/7VA max |
| Power supply(DC battery) | Alkaline size AA battery LR6 or Ni-MH(HR15-54)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 | $0\sim45^\circ\!C$, leaa than 85% RH(without condensation) |
| Storage temperature and humidity range | -20 ~ 60°C, less than 85% RH (without condensation) |
| Applicable Standards | IEC61010-1, CATIV 300V, CATIII 600V, CATII 1000V |
| | Pollution degree 2 |
| | IEC61010-2-030, IEC61010-031, IEC61326, EN50160 |
| | IEC61000-4-30 Class S, IEC61000-445, IEC61000-4-7 |
| Dimension/Weight | 175(L) x 120(W) x 68(D)mm / approx 900g |
| Included accessories | 7141B(Voltage test lead), 7170(Power cord), |
| | 7219(USB cable),8326-02(SD card 2GB), |
| | 9125(Carrying case for KEW6315) |
| | 9135(Carrying case for KEW6315-03), Input terminal plate 6, |
| | KEW Windows for KEW6315 software), Calibration Certificate |
| Optional accessories | Quick manual, Alkaline size AA battery (LR6 x 6) 8124, 8125, 8126, 8127, 8128(Load current clamp sensor), |
| Optional accessories | 8129, 8130 (Flexible clamp sensor), |
| | 8146, 8147, 8148(Leakage and Load current clamp sensor), |
| | 8312(Power supply adapter), 9132(Magnetic carrying case) |
| | |





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



Helpful support functions



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 2.4 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.

MMMM

Displays Pst (1min) on a trend graph.

Pst

Plt

0.282

Pst

Pst Calc.

0.804 0.804

Pst: 1min

230.0 230.4 230.5

0.804 1.028 1.017 0.804 1.026 1.022 0.804 1.035 1.034

List

Plt: 0.804 1.027 1.025 MAX 0.804 1.028 1.028

Real time and Remote



Trend graph

Various Clamp Current Sensors

Optional





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.

