

# CLAMP POWER METERS

## KEW 2060BT/2062/2062BT



### KEW 2060BT/2062/2062BT Specifications

|                             | 2060BT   | 2062/2062BT  |
|-----------------------------|--|--|
| Wiring connections          | 1P2W, 1P3W, 3P3W, 3P4W   |  |
| Measurements and parameters | Voltage, Current, Frequency, Active power, Reactive power, Apparent power, Power factor (cosφ), Phase angle, Harmonics (THD-R/THD-F), Phase rotation |  |
| ACV                         |  |  |
| Range                       | 1000V  |  |
| Accuracy                    | ±0.7%rdg±3dgt(40.0 - 70.0Hz) ±3.0%rdg±5dgt(70.1 - 1kHz)  |  |
| Crest factor                | 1.7 or less  |  |
| ACA                         |  |  |
| Range                       | 40.00/400.0/1000A (3 range auto)   |  |
| Accuracy                    | ±1.0%rdg±3dgt(40.0 - 70.0Hz) ±2.0%rdg±5dgt(70.1 - 1kHz)  |  |
| Crest factor                | 3 or less on 40.00A/400.0A range, 3 or less 1500A peak on 1000A range  |  |
| Frequency                   |  |  |
| Display Range               | 40.0 - 999.9Hz   |  |
| Accuracy                    | ±0.3%rdg±3dgt  |  |
| Active power                |  |  |
| Range                       | 40.00/400.0/1000kW   |  |
| Accuracy                    | ±1.7%rdg±5dgt (PF1, sine wave, 45 - 65Hz)  |  |
| Apparent power              |  |  |
| Range                       | 40.00/400.0/1000kVA  |  |
| Accuracy                    | ±1dgt against each calculated value, Sum: add errors of each channel, 3P3W: ±2dgt, 3P4W: ±3dgt   |  |
| Reactive power              |  |  |
| Range                       | 40.00/400.0/1000kVar   |  |
| Accuracy                    | ±1dgt against each calculated value, Sum: add errors of each channel, 3P3W: ±2dgt, 3P4W: ±3dgt   |  |
| Power factor                |  |  |
| Display Range               | -1.000 - 0.000 → +1.000  |  |
| Accuracy                    | ±1dgt against each calculated value, Sum: add errors of each channel, 3P3W: ±2dgt, 3P4W: ±3dgt   |  |
| Phase angle(1P2W only)      |  |  |
| Display Range               | -180.0 - 0.0 - +179.9  |  |
| Accuracy                    | ±3.0°  |  |
| Harmonics RMS(Content rate) |  |  |
| Analysis order              | 1st - 30th order   |  |
| Accuracy                    | ±5.0%rdg±10dgt (1 - 10th) ±10%rdg±10dgt (11 - 20th) ±20%rdg±10dgt (21 - 30th)  |  |
| Total harmonics THD-R/THD-F |  |  |
| Display Range               | 0.0% - 100.0%  |  |
| Accuracy                    | ±1dgt against the calculated results of each measured value  |  |
| Phase rotation              | ACV 80 - 1100V(45 - 65Hz)  |  |
| Other functions             | MAX/MIN/AVG/PEAK, Data hold, Bluetooth® (KEW 2060BT and KEW 2062BT only), Back light, Auto power off   |  |
| General                     |  |  |
| Communication interface     | Bluetooth®5.0 Android™5.0 or more, iOS 10.0 or more (KEW 2060BT and KEW 2062BT only)   |  |
| Power source                | LR6(AAA)(1.5V)×2   |  |
| Continuous measuring time   | Approx. 58 hours   |  |
| Conductor size              | Φ75mm max. (busbar of 80mm×30mm)   | Φ55mm max.   |
| Dimensions / Weight         | 283(L)×143(W)×49(D)mm / Approx. 590g (including batteries)   | 247(L)×105(W)×49(D)mm / approx. 490g (including batteries) |
| Applicable standards        | IEC 61010-1, IEC 61010-2-032, IEC 61326-1, -2-2(EMC), IEC 60529 (IP40)   |  |
| Accessories                 | CAT IV 600V / CAT III 1000V Pollution degree 2   |  |
| Accessories                 | 7290 (Voltage test lead set)   | 9198 (Carrying case)                                       |

### Selection Guide of Power Meters

|                         | Clamp Power Meters |              |              | Power Meter   | Power Quality Analyzer |
|-------------------------|--------------------|--------------|--------------|---|------------------------|
|                         | 2060BT             | 2062         | 2062BT       | 6305  | 6315                   |
| Appearance              |                    |              |              |   |                        |
| Voltage [V]             | ✓                  | ✓            | ✓            | ✓   | ✓                      |
| Current [A]             | ✓                  | ✓            | ✓            | ✓   | ✓                      |
| Power [W]               | ✓                  | ✓            | ✓            | ✓   | ✓                      |
| Frequency [Hz]          | ✓                  | ✓            | ✓            | ✓   | ✓                      |
| Energy [Wh]             | —                  | —            | —            | ✓   | ✓                      |
| Harmonics               | ✓                  | ✓            | ✓            | —   | ✓                      |
| Power Quality           |                    |              |              |   |                        |
| Swell                   | —                  | —            | —            | —   | ✓                      |
| Dip                     | —                  | —            | —            | —   | ✓                      |
| Interruption            | —                  | —            | —            | —   | ✓                      |
| Transients              | —                  | —            | —            | —   | ✓                      |
| Inrush Current          | —                  | —            | —            | —   | ✓                      |
| Conductor size          | Φ75mm              | Φ55mm        | Φ55mm        | Differs depending on the optional clamp sensors used. |                        |
| Memory                  | —                  | —            | —            | SD card   | SD card                |
| Number of Input Channel | 4ch (V3, A1)       | 4ch (V3, A1) | 4ch (V3, A1) | 6ch (V3, A3)  | 7ch (V3, A4)           |
| Communication interface | Bluetooth®         | —            | Bluetooth®   | USB, Bluetooth®                                       | USB, Bluetooth®        |

**! 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 :

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### Accessories



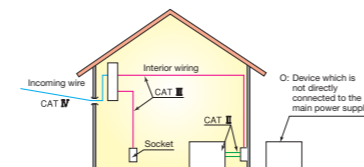
7290 Voltage test lead set



9198 Carrying case

### Measurement categories (CAT)

The figure shows an example of measurement category. Measuring instruments designed for CAT IV environments can be used at the environments of CAT III, CAT II and CAT I.



An example of measurement category: **CAT IV 300V**  
 Measurement category: Nominal phase to earth voltage

### Caution

The voltage value which follows after the category means the limit of the phase to earth voltage. It is not the limit of the phase to phase voltage. Therefore, in the case of a measuring instrument which complies with CAT IV 300V, it can be used at the electrical circuit up to 520V phase to phase at the 3-phase line connected by star connection.

Some countries regulate the compliance with their Radio Law of the products equipped with Bluetooth®. Please confirm it with your distributor before purchasing our products equipped with Bluetooth®.



Current up to **1000A<sub>rms</sub>**  
 Voltage up to **1000V<sub>rms</sub>**  
 Harmonics up to **30th**

- Various measurement functions: current, voltage, power, harmonics and phase detection
- LCD can display simultaneously the values of voltage and frequency or power and power factor
- Each degree of harmonics can be shown on the LCD of the tester
- Bluetooth® communication functions (KEW 2060BT and KEW 2062BT only)



Wireless communication with smartphone or tablet



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# KEW 2060BT/2062/2062BT

## Various measurement functions

- Measurements of current, voltage, power, harmonics and phase detection are possible.
- True RMS: Indicates a correct value at the distorted waveform.
- Functions of PEAK, MAX, MIN, AVG are available. Easy to check the temporal change in the power source.
- LCD can display simultaneously the values of voltage and frequency or power and power factor.

- A** AC Current, Frequency
- V** AC Voltage, Frequency
- W** Power
- DATA HOLD**
- Harmonics**
- Phase detection**
- SETUP** SET UP

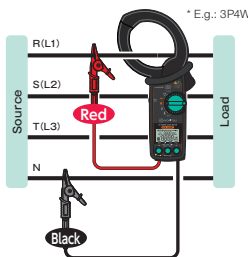


Input terminals can be used up to 3. Set the test leads according to the wiring configuration.



## Power measurement

Power measurement on any wiring system is possible. \*E.g.: 3P4W



KEW 2060BT, KEW 2062 and KEW 2062BT can perform Single-phase 2-Wire / Single-phase 3-Wire and balance and unbalance measurements of Three-phase 3-Wire / Three-phase 4-Wire. The double display can simultaneously show many parameters like W & PF, W & deg, W & VA, W & Var, V & A, etc.



Various parameters such as active/reactive/apparent power, power factor, phase differences (1P2W) only which are required for the power measurement can be measured.



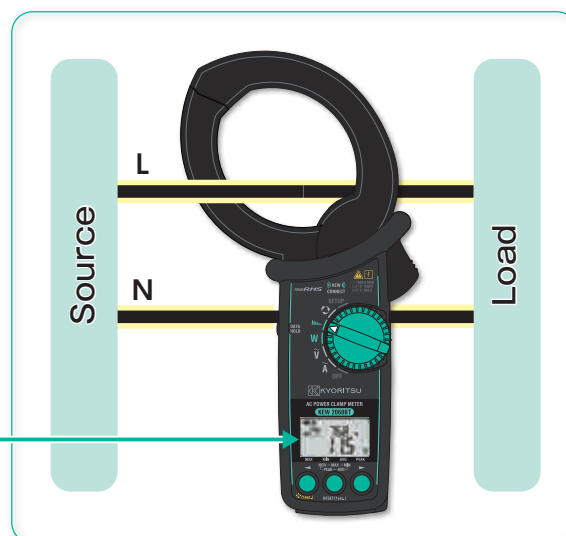
Total 3-phase power can be measured in simple steps.



By setting the CT and VT ratio and measuring the secondary side of the transformation, the primary side value can be obtained.

## Harmonics measurement

Harmonics of the voltage and current, which cause various failures at the field, can be measured. It is possible to measure and show each voltage and current harmonics up to 30th. Total harmonics distortion factor is in two types of THD-R and THD-F. Each degree of harmonics can be shown on the LCD of the tester. Both the current value (or voltage value) and the content ratio can be displayed on the same screen.



# Jaw shape with emphasis on the safety and the usability

Line-up of two types of jaw to meet the test environment

- KEW 2060BT has a newly designed special jaw shape for using at a large busbar. Extremely large jaw with tear drop shape can clamp a large busbar with safe. (Conductor size 75mm, Busbar 80 x 30mm MAX)
- KEW 2062 and KEW 2062BT have a tear drop shape jaw, and the size is convenient to use at a small-sized office and factory. (Conductor size 55mm)

**Ø 75 MAX mm**

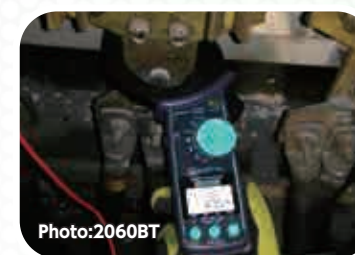
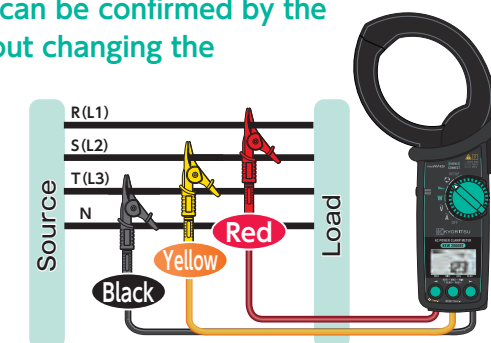


Photo:2060BT

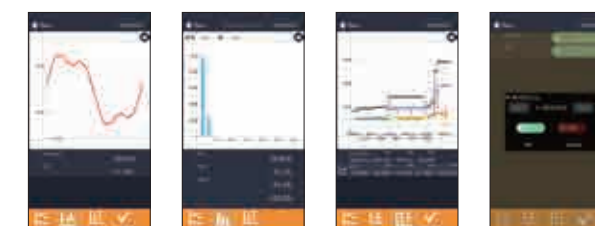
Tear drop shape jaw can keep the operator free from the danger of touching the busbar.

## Phase detection

Positive phase and negative phase can be confirmed by the buzzer sound and the display without changing the connection of the leads.



## KEW Power\*



Bluetooth® ( KEW 2060BT and KEW 2062BT only )

- Dedicated Application "KEW Power\*" supports both Android™ and iOS.
- LCD display can be checked at the smart devices.
- Measured values and graphs can be stored with a press of a button.
- Voltage and current can be shown in the waveform display. Existence of the harmonics can be found easy.
- Threshold of each measured value can be set at the application, and PASS and FAIL judgement is possible.

Please search "KEW Power\*"

Communication charge may be incurred separately to download application.

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Supporting Android™ ver.5.0