



# EARTH CLAMP TESTER KEW 4202



## Earth/GroundresistanceandLeakagecurrent measurement/functions

- The earth resistance from 0.05 to 1200 Ω can be measured without the auxiliary earth spikes in multi-earthing systems
- True RMS leakage or phase current readings from 0.1mA to 30.0A provides vital additional information in earthing networks
- Filter function offers increased immunity to electrical noise and a Noise mark appears in excessively high noisy environments

# VarioususefulKunctionsareavailableon <u>Android davite</u>susing Bluetooth communitection

- Real time measurements can be transferred, shown and saved on Android device (up to 100 measurements)
- Saved data includes measurement, GPS location and date & time Easy to check on map "When" and "Where" the measurement was made
- Comparator function on Android device informs when the measured value is lower/higher than the preset value

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#### KEW 4202 Specifications

| Function                                | Range   | Resolution   | Measuring ranges | Accuracy    |  |  |
|---|---|--|------------------|-------------|--|--|
| Earth resistance<br>Auto range          | 20Ω   | 0.01Ω *  | 0.00~20.99Ω      | ±1.5%±0.05Ω |  |  |
|   |   | 0.1Ω   | 16.0~99.9Ω       | ±2%±0.5Ω    |  |  |
|   | 200Ω  |  | 100.0~209.9Ω     | ±3%±2Ω      |  |  |
|   |   | 1Ω   | 160~399Ω         | ±5%±5Ω      |  |  |
|   | 1200Ω   |  | 400~599Ω         | ±10%±10Ω    |  |  |
|   |   | 10Ω  | 600~1260Ω        | -           |  |  |
| AC current<br>(50Hz/60Hz)<br>Auto range | 100mA   | 0.1mA  | 0.0~104.9mA      | ±2%±0.7mA   |  |  |
|   | 1000mA  | 1mA  | 80~1049mA        |             |  |  |
|   | 10A   | 0.01A  | 0.80~10.49A      | ±2%         |  |  |
|   | 30A   | 0.1A   | 8.0~31.5A        |             |  |  |
| -                                       |   | Current detection (Frequency : Approx. 2400Hz)<br>Dual Integration<br>AC current function : Successive approximation |                  |             |  |  |
| Over-range indication                   | "OL" is displayed when input exceeds the upper limit of a measuring range |  |                  |             |  |  |
| Response time                           | Approx. 7 seconds (Earth resistance) Approx. 2 seconds (AC current)       |  |                  |             |  |  |
| Sample rate                             | Approx. 1 tim   | Approx. 1 times per second   |                  |             |  |  |
| Power source                            | LR6/ R6 (AA)(1.5V) ×4   |  |                  |             |  |  |
| Current consumption                     | Approx. 90m   | Approx. 90mA (max. 140mA)  |                  |             |  |  |
| Measurement time                        | Approx. 21 h  | Approx. 21 hours (when LR6 is used) Approx. 5 hours (when R6 is used)  |                  |             |  |  |
| Auto power-off                          | Turns power   | Turns power off about 10 minutes after the last button operation   |                  |             |  |  |
| Applicable standards                    | IEC 61010-1<br>IEC 61010-2-   | IEC 61010-1 CAT.V 300V Pollution degree 2<br>IEC 61010-2-032, IEC 61326-2-2(EMC)                                     |                  |             |  |  |
| Withstand voltage                       |   | AC 5320Vrms/5 seconds Between the Transformer jaws fitted parts and<br>case enclosure (except for jaws)              |                  |             |  |  |
| Conductor size                          | Approx. Ø32r  | Approx. Ø32mm  |                  |             |  |  |
| Dimension                               | 246 (L)×120   | 246 (L)×120 (W)×54 (D)mm   |                  |             |  |  |
| Weight                                  | Approx. 780g  | Approx. 780g (including batteries)   |                  |             |  |  |
| Included Accessories                    |   | LR6(AA) $\times$ 4, Instruction manual,<br>8304 (Resistors for operation check), 9167 (Carrying case [Hard])         |                  |             |  |  |

Crest factor ≤ 3 (50Hz/60Hz, peak value shall not exceed 60A) \*\*4 counts or less are corrected to 0.

#### Free Andoroid software "KEW Smart 4202" is available on download site

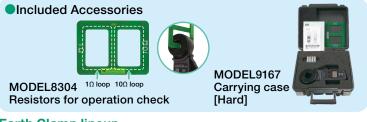






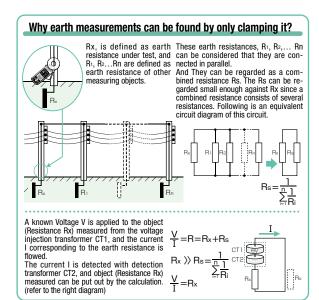
KEW Smart 4202 Download

\*Communication charges may be incurred separately to download application



#### **Earth Clamp lineup**

|                     | KEW4202   | MODEL4200 |  |
|---------------------|---|-----------|--|
| Common functions    | Earth resisitance, AC current, Back light function, Data hold<br>fuction, Auto power off, Memory function |           |  |
| Individual function | Bluetooth connection  | _         |  |







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GPS data collection may be lost since the GPS signal differs depending on the location of satellites. To access GPS data and send emails, an Internet connection is

required. Communication charges may be incurred separately for using these functions . . . . . . . . . . . . . . . . . . .

Comparator function informs when the measured value is lower/higher than the preset value



\*Available on the Android devices equipped with Bluetooth/ GPS/ Data communication function Supporting Android ver. 2.2 - 3.2 Max communication distance: 1 Or

External communication method : Bluetooth Ver2.1+EDR Class2 Bluetooth is a registered trademark of the Bluetooth SIG, Inc. Android is a registered trademark of the Google SIG. Inc.



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