



EARTH CLAMP TESTER KEW 4202



Earth/Groundresistance and Leakage current 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

Various useful functions are available on Android devices using Bluetooth communication

- 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

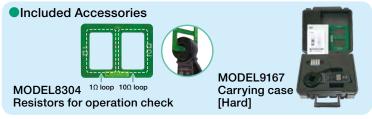
KEW 4202 Specifications

Function	Range	Resolution	Measuring ranges	Accuracy	
Earth resistance Auto range	20Ω	0.01Ω *	0.00∼20.99Ω	±1.5%±0.05Ω	
	200Ω	0.1Ω	16.0∼99.9Ω	±2%±0.5Ω	
			100.0∼209.9Ω	±3%±2Ω	
	1200Ω	1Ω	160~399Ω	±5%±5Ω	
			400~599Ω	±10%±10Ω	
		10Ω	600~1260Ω	_	
AC current (50Hz/60Hz) 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) Dual Integration 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 times per second				
Power source	LR6/ R6 (AA)(1.5V) ×4				
Current consumption	Approx. 90mA (max. 140mA)				
Measurement time	Approx. 21 hours (when LR6 is used) Approx. 5 hours (when R6 is used)				
Auto power-off	Turns power off about 10 minutes after the last button operation				
Applicable standards	IEC 61010-1 CAT.W 300V Pollution degree 2 IEC 61010-2-032, IEC 61326-2-2(EMC)				
Withstand voltage	AC 5320Vrms/5 seconds Between the Transformer jaws fitted parts and case enclosure (except for jaws)				
Conductor size	Approx. φ32mm				
Dimension	246 (L)×120 (W)×54 (D)mm				
Weight	Approx. 780g (including batteries)				
Included Accessories	LR6(AA) × 4, Instruction manual, 8304 (Resistors for operation check), 9167 (Carrying case [Hard])				

Crest factor ≤ 3 (50Hz/60Hz, peak value shall not exceed 60A) ¾4 counts or less are corrected to 0.



*Communication charges may be incurred separately to download application

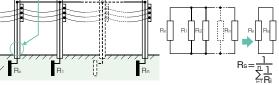


Earth Clamp lineup

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

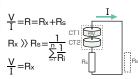


resistance under test, and can be considered that they are con-Rı, Rz...Rn are defined as nected in parallel. earth resistance of other measuring objects. can be resistance Rs. The Rs can be regarded small enough against Rx since a combined resistance consists of several resistances. Following is an equivalent circuit diagram of this circuit.



A known Voltage V is applied to the object (Resistance Rx) measured from the voltage injection transformer CT1, and the current I corresponding to the earth resistance is

The current I is detected with detection transformer CT2, and object (Resistance Rx) measured can be put out by the calculation. (refer to the right diagram)









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

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

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 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:

