## Earth Clamp Meter

Useful data can be saved on Android devices via Bluetooth communication



### **Technical Datasheet**

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#### Features

- Easy Earth / Ground resistance measurement
- True RMS readings
- Jaw Ø32mm
- Earth / Ground Resistance  $0.05\Omega$  to  $1500\Omega$  resolution
- AC A 0.1mA to 30A Resolution
- Noise check function
- 100 Data storage points
- Bluetooth Function

#### **Standard Accessories**

K8304 (Resistors for operation check), K9167 (Carrying case [Hard]), LR6 (AA) × 4, Instruction manual

### **Ordering Information**

 Branches:
 Johannesburg
 Cape Town
 Durban
 Port Elizabeth
 Bloemfontein

 011
 872
 5500
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 556
 3091
 031
 569
 1024
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 1172
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### K4202

The K4202 measures earth resistance from 0.05 to 1500 $\Omega$  and 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. The filter function offers increased immunity to electrical noise and a noise mark appears in excessively high noisy environments.

The K4202 stores up to 100 measurements and real time measurements can be transferred, shown and saved on an Android device using Bluetooth communication. Saved data includes measurement, GPS location, date and time.



#### Specifications

Detailed specifications on page 2

FUNCTION	RANGE		
Earth resistance Auto range	1500Ω		
Ac current (50Hz/60Hz) Auto range	30A		
Power source	LR6/R6 (AA) (1.5V) x 4		
Current consumption	Approx. 90mA (max. 140mA)		
Measurement time	Approx 21 hrs (LR6) Approx 5 hrs (R6)		
Auto power-off	Turns power off about 10 minutes after the last button operation		
Applicable standards	IEC 61010-1 CAT.IV 300V Pollution degree 2 IEC 61010-2-032, IEC 61326-2-2 (EMC)		
Withstand voltage	AC 5320Vrms/5 seconds		
Conductor size	Approx. ф32mm		
Dimensions	246 (L)×120 (W)×54 (D) mm		
Weight	Approx. 780g (including batteries)		

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### **Technical Datasheet**



100 Data Storage Points Bluetooth Function



32mm Jaw Diameter



Earth/Ground Resistance  $0.05\Omega$  to  $1500\Omega$  resolution

Function	Range	Resolution	Measuring Range	Accuracy	
Earth Resistance	20Ω	0.01Ω (*)	0 ~ 20.99Ω	± 1.5% ± 0.05Ω	
Auto range	200Ω	0.1Ω	16.0 ~ 99.9Ω	± 2%rdg ± 0.5Ω	
			100 ~ 209.9Ω	± 3%rdg ± 2Ω	
	1500Ω	1Ω	160 ~ 399Ω	± 5%rdg ± 5Ω	
			400 ~ 599Ω	$\pm$ 10%rdg $\pm$ 10Ω	
		10Ω	600 ~ 1580Ω		
AC current (50Hz/60Hz) Auto range	100mA	0.1mA	0.0 ~ 104.9mA	± 2% ± 0.7mA	
	1000mA	1mA	80 ~ 1049mA	± 2%	
	10A	0.01A	0.80 -10.49A		
	30A	0.1A	8.0 - 31.5A		
Operating Indication	Earth resistance function: Constant voltage injection 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 time per second				



### **Ordering Information**

Measurement results		
Measured data with time and location info can be sent by E-mail		
()))) E-mail		
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		

Recorded data can be transferred (up to 100 measurements)



Various useful functions are available on Android devices using Bluetooth communication

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