

EARTH TESTERS



KEW 4106



CE

- Earth resistance measurement with six ranges covering measurements from 0.001 Ω to 200 kΩ.
- Earth resistivity (ρ) measurement is automatically calculated after having set the distance between Auxiliary Earth Spikes (Wenner method).
- Automatic and Manual selection of the Test Current Frequency in four bands of 94/105/111/128Hz. In Automatic mode KEW 4106 will select the most suitable Frequency.
- Advanced Filtering method (based on FFT Fast Fourier Transform) reduces noise interference for obtaining stable measurements.
- Up to 800 measurement results can be saved in the memory and recalled on the display.
- The stored results can be transferred to a PC via USB adaptor (Model 8212-USB) by using software "KEW Report" which are included.
- Robust design with IP54 protection.

4106				
Function	Range	Resolution	Measuring range	Accuracy
Earth resistance Re (Rg at ρ measurement)	2Ω	0.001Ω	0.03 - 2.099Ω	±2%rdg.±0.03Ω
	20Ω	0.01Ω	0.03 - 20.99Ω	
	200Ω	0.1Ω	0.3 - 209.9Ω	
	2000Ω	1Ω	3 - 2099Ω	
	20kΩ	10Ω	0.03k - 20.99kΩ	
	200kΩ	100Ω	0.3k - 209.9kΩ	
Auxiliary earth resistance Rh, Rs				8% of Re+Rh+Rs
Earth resistivity ρ	2Ω	0.1Ω-m - 1Ω-m Autorangeing	0.2 - 395.6Ω-m	ρ=2×π×a×Rg
	20Ω		0.2 - 3956Ω-m	
	200Ω		20 - 39.56kΩ-m	
	2000Ω		0.2 - 395.6kΩ-m	
	20kΩ		2.0 - 1999kΩ-m	
	200kΩ			
Series interference voltage Ust (A.C only)	50V	0.1V	0 - 50.9Vrms	±2%±2dgt
Frequency Fst	Autorangeing	0.1Hz, 1Hz	40Hz - 500Hz	±1%±2dgt
Test Current	80mA(max)			
Memory capacity	800 data			
Communication interface	Model 8212-USB Optical Adaptor			
LCD	Dot-matrix 192 × 64, monochrome			
Over-range indication	"OL"			
Overload protection	between E-S(P) and between E-H(C) terminals AC280V / 10 sec			
Applicable Standards	IEC 61010-1 CAT IV 150V, CAT III 300V Pollution degree 2 IEC 61557-1,5, IEC 61326-1(EMC), IEC 60529(IP54)			
Power source	DC12V : sizeAA manganese dry battery (R6) × 8 (Auto power off: approx. 5 minutes)			
Dimensions	167(L) × 185(W) × 89(D)mm			
Weight	approx. 900g (including batteries)			
Accessories	7229A(Earth resistance test leads), 7238A(Simplified measurement test leads) 8032(Auxiliary earth spikes[2spikes/set]) × 2, 8200-04(Cord reels [4pcs]), 8212-USB(USB adaptor with "KEW Report(Software)") 9121(Shoulder strap), 9125(Carrying case) R6 × 8, Instruction manual			
Optional	8212-RS232C(RS232C adaptor with "KEW Report(Software)")			



KEW 4300

SIMPLIFIED EARTH TESTER



CE

4300	
Earth resistance ranges	200.0/2000Ω(Auto ranging) ±3%rdg±5dgt
Voltage ranges	AC:5.0 - 300.0V(45 - 65Hz) ±1%rdg±4dgt DC:±5.0 - 300.0V ±1%rdg±8dgt
Applicable Standards	IEC 61010-1 CAT III 300V pollution degree 2 IEC 61557-1,-5 IEC 61326-1,2-2,IEC 60529(IP40)
Power source	LR6(AA)(1.5V) × 2
Dimensions	232(L) × 51(W) × 42(D)mm
Weight	220g approx(including battery)
Accessories	7248(Test lead with Alligator clip and Flat test probe) 8072(CAT II Standard prod) 8253(CAT IV Standard prod) 8017(Extension prod long) 9161(Carrying case) Instruction manual, LR6(AA) × 2

KEW4300 is simplified earth resistance tester (based on 2-pole method) that can be used for various distribution lines and electrical appliances and it also can measure AC/DC voltage. (As for AC voltages, true rms values can be obtained.)

- 200/2000Ω (2 ranges) : auto-ranging.
- Warning buzzer triggered at 100Ω or less.
- LED lights up when a large earth voltage is detected.
- Live circuit warning when 30V or higher voltage is detected. (KEW4300 detects voltage even when measuring resistances.)
- LED light for illuminating measurement points. (It turns on/off automatically in relation to the ambient brightness.)
- Small test current (max 2mA) not triggering RCD.