

EARTH TESTERS



KEW **4106**



CE

- Earth resistance measurement with six ranges covering measurements from 0.001 Ω to 200 k Ω .
- 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 R_e (R_g at ρ measurement)	2 Ω	0.001 Ω	0.03~20.99 Ω	$\pm 2\%rdg. \pm 0.03\Omega$
	20 Ω	0.01 Ω	0.03~20.99 Ω	
	200 Ω	0.1 Ω	0.3~209.9 Ω	
	2000 Ω	1 Ω	3~2099 Ω	$\pm 2\%rdg. \pm 5dgt$
	20k Ω	10 Ω	0.03~20.99 Ω	
	200k Ω	100 Ω	3~2099 Ω	
Auxiliary earth resistance R_h, R_s				8% of $R_e + R_h + R_s$
Earth resistivity ρ	2 Ω	0.1 $\Omega \cdot m \sim 1\Omega \cdot m$ Autoranging	0.2~395.6 $\Omega \cdot m$	$\rho = 2 \times \pi \times a \times R_g$
	20 Ω		0.2~3956 $\Omega \cdot m$	
	200 Ω		20~39.56k $\Omega \cdot m$	
	2000 Ω		0.2~395.6k $\Omega \cdot m$	
	20k Ω		2.0~1999k $\Omega \cdot m$	
	200k Ω			
Series interference voltage U_{st} (A.C only)	50V	0.1V	0~50.9Vrms	$\pm 2\% \pm 2dgt$
Frequency F_{st}	Autoranging	0.1Hz, 1Hz	40Hz~500Hz	$\pm 1\% \pm 2dgt$
Test Current	80mA(max)			
Memory capacity	800 data			
Communication interface	Model 8212-USB Optical Adaptor			
LCD	Dot-matrix 192 \times 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. III 300V, CAT. IV 150V Pollution degree 2 IEC 61010-031, IEC 61557-1,5, IEC 61326-1(EMC), IEC 60529(IP54)			
Power source	DC12V : sizeAA manganese dry battery (R6P) \times 8 (Auto power off: approx. 5 minutes)			
Dimensions	167(L) \times 185(W) \times 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) \times 2, 8200-04(Cord reels [4pcs]), 8212-USB(USB adaptor with "KEW Report(Software)") 9121(Shoulder strap), 9125(Carrying case) R6P \times 8, Instruction manual			
Optional	8212-RS232C(RS232C adaptor with "KEW Report(Software)")			



KEW **4300**

SIMPLIFIED EARTH TESTER



CE

4300	
Earth resistance ranges	200.0/2000 Ω (Auto ranging) $\pm 3\%rdg \pm 5dgt$
Voltage ranges	AC: 5.0~300.0V(45~65Hz) $\pm 1\%rdg \pm 4dgt$ DC: $\pm 5.0 \sim 300.0V \pm 1\%rdg \pm 8dgt$
Applicable standards	IEC 61010-1 CAT. III 300V pollution degree 2 IEC 61010-031, 61557-1,-5 IEC 61326-1, 2-2, IEC 60529(IP40)
Power source	Size AA alkaline battery \times 2 pcs
Dimensions	232(L) \times 51(W) \times 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) \times 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.)

- 200/2000 Ω (2 ranges) : auto-ranging.
- Warning buzzer triggered at 100 Ω 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.