



Kyoritsu 4106 Earth Tester

Features at a glance

- 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 is included as standard.
- Robust design with IP54 protection.

Specifications

Function	Range	Resolution	Measuring range	Accuracy
Earth resistance measurement Re (Rg at ρ measurement)	2 Ω	0.001 Ω	0.03 - 2.099 Ω	$\pm 2\% \text{rdg} \pm 0.03\Omega$
	20 Ω	0.01 Ω	0.03 - 2.099 Ω	
	200 Ω	0.1 Ω	0.3 - 209.9 Ω	
	2000 Ω	1 Ω	3 - 2099 Ω	
	20K Ω	10 Ω	0.03k - 20.99k Ω	
	2000K Ω	100 Ω	0.3k - 209.9k Ω	
Auxiliary earth resistance Rh, Rs				8% of Re+Rh+Rs
	2 Ω	0.1 Ω ·m - 1 Ω ·m Autoranging	0.2 - 395.6 Ω m	$\rho = 2 \times \pi \times a \times Rg$
	20 Ω		0.2 - 3956 Ω m	
	200 Ω		20 - 39.56k Ω m	
	2000 Ω		0.2 - 395.6k Ω m	
	20K Ω		2.0 - 1999k Ω m	
	2000k Ω			
Series interference voltage Ust (A.C only)	50V	0.1V	0 - 50.9Vrms	$\pm 2\% \pm 2 \text{dgt}$
Frequency Fst	Autoranging	0.1Hz, 1Hz	40Hz - 500Hz	$\pm 1\% \pm 2 \text{dgt}$
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"			
Applicable Standards	IEC 61010-1 CAT IV 150V, CAT III 300V Pollution degree 2 IEC 61557-1, IEC 61326-1(EMC), IEC 60529(IP54)			
Dimensions	167(L) \times 185(W) \times 89(D)mm		Weight	approx. 900g (including batteries)