

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.

Function	4106			
	Range	Resolution	Measuring range	Accuracy
Earth resistance R_e (R_g at ρ measurement)	2 Ω	0.001 Ω	0.03 - 2.099 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	
	20k Ω	10 Ω	0.03k - 20.99k Ω	
	200k Ω	100 Ω	0.3k - 209.9k Ω	
Auxiliary earth resistance R_h, R_s				8% of $R_e + R_h + R_s$
Earth resistivity ρ	2 Ω	0.1 $\Omega \cdot m$ - 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 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) \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)") 8923(Fuse [0.5/250V]) \times 1 (included), 1 (spares) 9121(Shoulder strap), 9125(Carrying case) R6 \times 8, Instruction manual			

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