



KYORITSU · EARTH TESTERS · DATASHEET

Kyoritsu KEW 4106 Earth Resistance & Resistivity Tester

Model KEW 4106 · Earth Resistance & Resistivity Tester



Four-pole earth tester measuring earth resistance from 0.001 Ω to 200 k Ω and soil resistivity by the Wenner method, with 800-result memory and USB.

Key features

- Earth resistance on six ranges, 0.001 Ω to 200 k Ω
- Earth resistivity (ρ) calculated automatically by the Wenner method
- Test frequency 94 / 105 / 111 / 128 Hz, automatic or manual selection
- FFT-based filtering reduces noise interference
- Memory for 800 results; PC transfer via 8212-USB and KEW Report
- IP54 protection; IEC 61010-1 CAT III 300 V / CAT IV 150 V

Price and availability

Ask Industrial Supply Syndicate for the current price, stock and a quotation with GST and freight. Call +91 8961089611 or WhatsApp +91 89610 89611.

Specifications

Earth Resistance

Ranges and accuracy	2 Ω (resolution 0.001 Ω , 0.03–2.099 Ω) $\pm 2\%$ rdg ± 0.03 Ω ; 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), 20 k Ω (10 Ω , 0.03–20.99 k Ω), 200 k Ω (100 Ω , 0.3–209.9 k Ω) $\pm 2\%$ rdg ± 5 dgt (auxiliary earth resistance 100 Ω with Rk correction)
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Auxiliary earth resistance Rh, Rs	8% of Re + Rh + Rs
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Method	Fall-of-potential method (currents and voltages measured via the probes)
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Test current frequency	94 / 105 / 111 / 128 Hz, automatic or manual
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Earth Resistivity

Measuring range	2 Ω : 0.2–395.6 $\Omega \cdot m$; 20 Ω : 0.2–3956 $\Omega \cdot m$; 200 Ω : 20–39.56 k $\Omega \cdot m$; 2000 Ω : 0.2–395.6 k $\Omega \cdot m$; 20 k Ω : 2.0–1999 k $\Omega \cdot m$; resolution 0.1 to 1 $\Omega \cdot m$, auto-ranging
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Method	Wenner 4-pole method; $\rho = 2 \times \pi \times a \times Rg$; spike interval a 1.0–30.0 m
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Earth Voltage

Series interference voltage Ust (AC only)	50 V range, 0.1 V resolution, 0–50.9 V rms; $\pm 2\%$ rdg ± 2 dgt (50/60 Hz), $\pm 3\%$ rdg ± 2 dgt (40–500 Hz); not for measuring mains line voltage
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Frequency Fst	40–499.9 Hz, auto-ranging; $\pm 1\%$ rdg ± 2 dgt
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Data & Display

Memory capacity	800 data
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Communication interface	MODEL 8212-USB optical adapter
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LCD	Dot-matrix 192 $\times$ 64 monochrome
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Data & Display (continued)

Over-range indication "OL"

Protection

Overload protection Between E-S(P) and E-H(C) terminals: 280 V AC / 10 seconds

Safety

Measurement category IEC 61010-1 CAT III 300 V / CAT IV 150 V, pollution degree 2

Standards IEC 61010-031, IEC 61557-1, 5, IEC 61326-1 (EMC)

Ingress protection IEC 60529 IP54

General

Power source DC 12 V: R6 (AA) manganese battery × 8; auto power off approx. 5 minutes

Dimensions 167 (L) × 185 (W) × 89 (D) mm

Weight Approx. 900 g (including batteries)

What's in the box

- Earth precision measurement test leads (7229A)
- Simplified measurement test leads (7238A)
- Auxiliary earth spikes (set of 2) (8032) × 2
- Cord reel (4 pcs) (8200-04)
- USB adapter (8212-USB)
- Fuse (0.5 A / 600 V), plus 1 spare (8923)
- Shoulder strap (9121)
- Carrying case (9125)
- AA battery (R6) × 8
- Instruction manual

Typical applications

- **Earth Resistance Testing** – Earth resistance 0.001 Ω to 200 kΩ and Wenner soil resistivity measurement.
- **Power Distribution** – Low-ohm 2 Ω range suits substation earthing grids and resistivity surveys.
- **Field Electrical Testing** – 800-result memory with USB download to KEW Report; IP54 body.

Official Kyoritsu documents

[KEW 4106 product catalogue \(English\)](#) PDF · www.kew-ltd.co.jp

[KEW 4106 instruction manual \(English\)](#) PDF · www.kew-ltd.co.jp

Order or ask for a quotation

Industrial Supply Syndicate supplies the Kyoritsu KEW 4106 across India with a GST invoice. Tell us the quantity and delivery location; we reply with a quotation or proforma invoice including freight.

Phone +91 8961089611
WhatsApp +91 89610 89611
Email info@kyoritsumeters.in
Online kyoritsumeters.in/product/kyoritsu-kew-4106-earth-resistivity-tester/
Address 54, Ezra Street, Kolkata, West Bengal 700000, India
GSTIN 19ACDPC1843J1ZR



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