



KYORITSU · POWER ANALYSERS & LOGGERS · DATASHEET

Kyoritsu KEW 5050 Ior Logger

Model KEW 5050 · Ior Logger



Four-channel Ior logger that separates resistive leakage current from total leakage on live systems, logging as fast as every 200 ms, CAT IV 300 V.

Key features

- Measures Ior (resistive leakage), Io, Iom, voltage, insulation resistance and phase angle
- Up to 4 channels on 1P2W, 1P3W, 3P3W and 3P4W systems
- Leakage recording interval as short as 200 ms
- Also measures traditional leakage and load current with general clamp sensors
- Large graphic display with backlight; magnet on rear case
- SD card storage and USB data transfer
- IEC 61010-1 CAT IV 300 V / CAT III 600 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

Wiring & Parameters

Wiring configuration	1P2W, 1P3W, 3P3W, 3P4W
Measurements and parameters	Ior: leakage current (Trms) with resistive components only; Io: leakage current (Trms) with 50/60 Hz fundamental only; Iom: leakage current (Trms) including harmonics; V: reference voltage (Trms) with 50/60 Hz fundamental only; Vm: reference voltage (Trms) including harmonics; R: insulation resistance; frequency (Hz); phase angle (θ)

Other functions	Digital output, print screen, backlight, data hold
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Recording interval	200 / 400 ms, 1 / 5 / 15 / 30 s, 1 / 5 / 15 / 30 min, 1 / 2 h
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Ior (Resistive Leakage Current)

Range	8177 / 8178 (10 A type): 10.000 / 100.00 / 1000.0 mA / 10.000 A / AUTO
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Accuracy	For reference voltage sine wave 40–70 Hz and 90 V Trms or higher: ±0.2% rdg ±0.2% f.s. + clamp sensor amplitude accuracy + phase error (add ±2.0% rdg to measured Io when using Ior leakage clamp sensor; θ within reference voltage / current phase difference accuracy ±1.0°)
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Allowable input	1–110% (Trms) of each range, 200% (peak) of the range
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Display range	0.15–130% ("0" below 0.15%, "OL" above range)
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Io / Iom (Leakage & Load Current)

**Io / Iom (Leakage & Load Current) (continued)**

Io range	8177 / 8178 (10 A type): 10.000 / 100.00 / 1000.0 mA / 10.000 A / AUTO; 8146 / 8147 / 8148 (10 A type): 10.000 / 100.00 / 1000.0 mA / 10.000 A / AUTO; 8128 (50 A type): 500.0 mA / 5.000 / 50.00 A / AUTO; 8121 / 8127 (100 A type): 1000 mA / 10.00 / 100.0 A / AUTO; 8126 (200 A type): 2.000 / 20.00 / 200.0 A / AUTO; 8122 / 8125 (500 A type): 5.000 / 50.00 / 500.0 A / AUTO; 8123 / 8124 / 8130 (1000 A type): 10.00 / 100.0 / 1000 A / AUTO; 8133 (3000 A type): 30.00 / 300.0 / 3000 A / AUTO; 8129 (3000 A type): 300.0 / 1000 / 3000 A
Io accuracy	±0.2% rdg ±0.2% f.s. + clamp sensor amplitude accuracy
Iom range	Same as Io
Iom accuracy	±0.2% rdg ±0.2% f.s. + clamp sensor amplitude accuracy
Measurement method	Sampling 40.96 ksps (every 24.4 µs), gapless; Trms calculated every 200 ms
Voltage	
Range	1000.0 V
Accuracy	±0.2% rdg ±0.2% f.s. (sine wave 40–70 Hz)
Allowable input	10–1000 V Trms, 2000 V peak
Display range	0.9–1100.0 V Trms ("0" below 0.9 V, "OL" above range)
Phase Angle & Frequency	
Phase angle display range	0.0 to ±180.0° (reference voltage phase = 0.0°)
Phase angle accuracy	Within ±0.5° for inputs of 10% or more of the leakage current range, sine wave 40–70 Hz, reference voltage 90 V Trms or higher; within ±1.0° with Ior leakage clamp sensor; within ±0.5° + clamp sensor accuracy with general-purpose clamp sensor
Frequency range	40–70 Hz
Safety	
Measurement category	IEC 61010-1 CAT IV 300 V / CAT III 600 V, pollution degree 2
Standards	IEC 61010-2-030, IEC 61010-031, IEC 61326
General	
Display / update period	160 × 160 dot FSTN monochrome / 500 ms
Memory card	SD card (2 GB), standard accessory
Communication interface	USB
Accuracy temperature and humidity	23 ±5 °C, RH 85% or less (no condensation)
Operating temperature and humidity	-10 to 50 °C, RH 85% or less (no condensation)
Storage temperature and humidity	-20 to 60 °C, RH 85% or less (no condensation)
Power source	LR6 (AA) (1.5 V) × 6, battery life approx. 11 h; external supply AC 100–240 V (50/60 Hz), 7.5 VA max
Dimensions	165 (L) × 115 (W) × 57 (D) mm
Weight	Approx. 680 g (including batteries)



What's in the box

- Voltage test lead (7273)
- AC adapter (8262)
- Earth cable (7278)
- USB cable (7219)
- SD card (2 GB) (8326-02)
- Carrying case (9125)
- AA battery (LR6) × 6
- Cable marker
- KEW Windows for KEW 5050 (PC software)
- Software installation manual
- Instruction manual

Typical applications

- **Insulation Testing** – Assesses insulation on live circuits by logging resistive leakage Ior and insulation resistance.
- **Industrial Troubleshooting** – Separates resistive from capacitive leakage to find the real cause of earth leakage trips.
- **Power Distribution** – Four-channel leakage logging on 1P2W to 3P4W systems at intervals from 200 ms.

Official Kyoritsu documents

[KEW 5050 product catalogue \(English\)](#) PDF · www.kew-ltd.co.jp

[KEW 5050 instruction manual \(English\)](#) PDF · www.kew-ltd.co.jp

Order or ask for a quotation

Industrial Supply Syndicate supplies the Kyoritsu KEW 5050 across India with a GST invoice. Tell us the quantity and delivery location; we reply with a quotation or proforma invoice including freight.

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