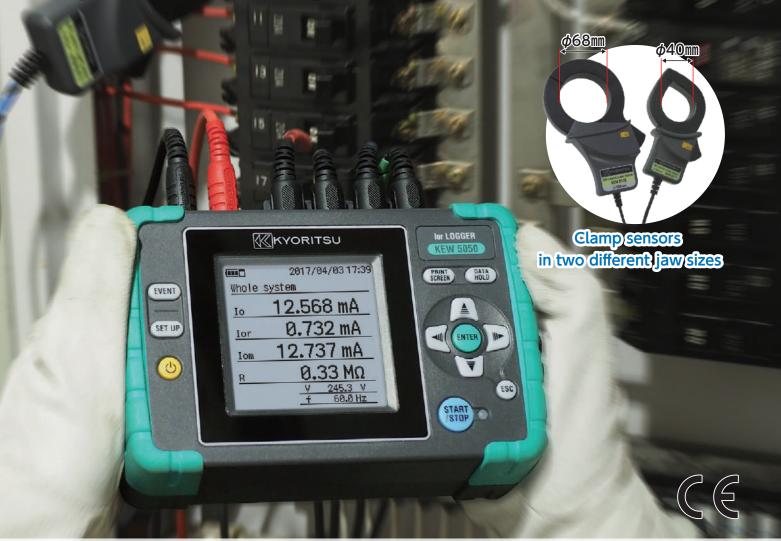


Ior LOGGER KEW 5050

Unpreceded for Losseria

Quickly find electric leakages with less time and more productivity



- Provides simultaneous measurements and logs up to 4 channels
- Supports various wiring systems
 (Single-phase 2&3-wire, Three-phase 3&4-wire*)
 *Except for 3 Phase 4 wire
- World's fastest class speed at 200ms interval for leakage current measurement
- Large graphic display and magnet on the back case to attach it on metal enclosures
- Offers both traditional leakage / load current measurements

Ior LOGGER

KEW 5050

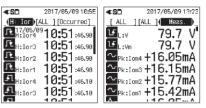


- 1 Leakage current (1st-order component of lom)
- 2 lor Resistive leakage current
- **3** lom Leakage current with harmonics
- 4 R Insulation resistance (determined by V and Ior)
- Seference voltage (1st-order component of Vm)
- 6 f Frequency

EVENT Quickly displays occurred events

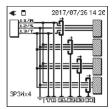
Detailed information on the occurred events are displayed on the LCD. Different threshold values can be set for each channel and each event.

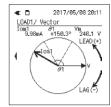




Various display modes

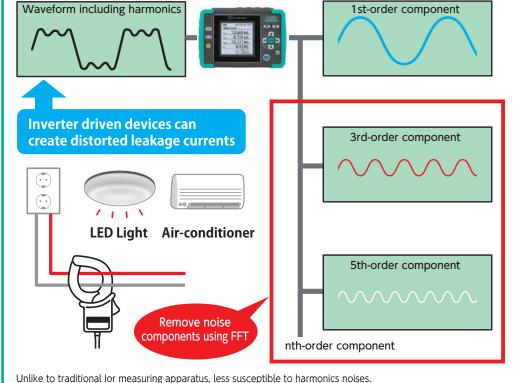
User-friendly graphical display of connections and phase differences.





New measurement method with FFT

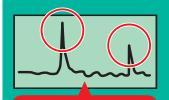
Offering accurate lor measurement without being affected by noises or harmonics



Never miss intermittent leakages

Gapless continuous measurement

During logging, continuous high-speed sampling (24.4 µsec) without gaps is performed. This allows recording of any intermittent leakage without missing it as an event or maximum value.



KEW 5050 surpasses traditional lor testers and can record intermittent leakages.

Successfully achieving logging with no effects of harmonics by TRMS calculation every 200 ms using FFT (Fast Fourier Transform).

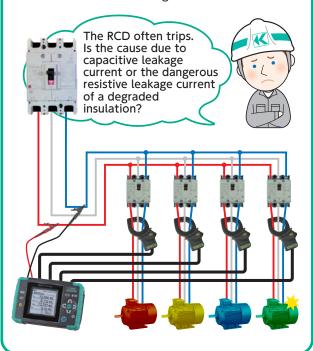
^{*} KEW 5050 cannot measure lor on different wiring systems at once, nor on V-connection with different capacities and flowing power supply (not connected to earth ground).

Tests and records 4 channels simultaneously in 200 ms gapless

Can measure up to 4 channels simultaneously!

Best to diagnose unwanted RCD tripping

Measures Ior and loc separately to clarify the root cause of the electric leakage troubles.



Accessories and optional parts Optional Power supply adapter is available to derive power via measurement terminal. Cable markers for easy recognition





Strong magnets help to fix KEW 5050 to the metal distribution board.

Digital output

Activates alarm devices when events occur



SD card interface

Achieves long period of data logging. In case of sudden power interruption, data stored in the SD card aren't lost.

Possible recording time (with 2GB SD card)				
Interval	REC item			
	1P3W×1	1P3W×4	3P4W×4	
200ms	25days	8days	7days	
1sec.	38days	11days	9days	
2sec.	76days	22days	18days	
5sec.	6.5mounths	1.8mounths	1.5mounths	
15sec.	1year or more	5mounths	4mounths	
30sec.		11mounths	9mounths	
1min. or more		1year o	r more	

Special data analysis software "KEW Windows for KEW 5050"

Automatic generation of graphs and lists based on the recorded data by just one click.

Data can be checked without using this software by changing the file extension to csv or others.



software from our website.

*Windows® is a trademark or registered trademark of Microsoft Corporation.

KEW 5050 Specification

_			
W	iring configuration	1P2W, 1P3W, 3P3W, 3P4W	
Measurements and		lor : Leakage current (TRMS) with resistive components only	
pa	ırameters	lo : Leakage current (TRMS) with basic wave of 50/60Hz only	
		Iom : Leakage current (TRMS) including harmonic components	
		V: Reference voltage (TRMS) with basic wave of 50/60Hz only	
		Vm : Reference voltage (TRMS) including harmonic components	
		R : Insulation resistance, Frequency(Hz), Phase $angle(\theta)$	
Other functions		Digital output, Print screen, Backlight, Data hold	
Recording Interval		200/400ms/1/5/15/30s/1/5/15/30/60/120m	
lo	r		
	Range	10.000/100.00/1000.0mA/10.000A/AUTO	
	Accuracy	For reference voltages of sine wave 40 to 70Hz and 90V TRMS or higher, ±0.2%rdg	
		±0.2%f.s. + clamp sensor amplitude accuracy + error of phase accuracy* (phase error)	
		* add ±2.0%rdg to measured lo value when using lor leakage clamp sensor.	
		θ : within the accuracy of reference voltage/ current phase difference $\pm 1.0^{\circ}$	
	Allowable input	1 to 110% (TRMS) of each range, and 200% (peak) of the range	
	Display range	0.15 to 130% (display "0" for less than 0.15%, "OL" if the range is exceeded)	
lo	*Range, Allowable	input and Display Range are the same as lor	
	Accuracy	±0.2%rdg±0.2%f.s.+ clamp sensor amplitude accuracy	
lo	m *Range, Allowab	le input and Display Range are the same as lor	
	Accuracy	±0.2%rdg±0.2%f.s.+ clamp sensor amplitude accuracy	
	Measurement method	Sampling speed 40.96ksps (every 24.4µs), gapless, calculate TRMS values every 200ms	
Voltage			
	Range	1000.0V	
	Accuracy	±0.2%rdg±0.2%f.s. * for waveforms of sine wave 40 to 70Hz	
	Allowable input	10 to 1000V TRMS, and 2000V peak	
	Display range	0.9 to 1100.0V TRMS (display "0" for less than 0.9V, "OL" if the range is exceeded)	
Pł	nase angle(θ)		
	Display range	0.0 to ±180.0° (regarding the phase of reference voltage as 0.0°)	
	Accuracy	Within ±0.5° for the inputs of 10% or higher of leakage current range, sine wave	
		40 to 70Hz reference voltage of 90V TRMS or higher.	
		Within ±1.0° when using lor leakage clamp sensor, and	
		Within ±0.5°+ clamp sensor accuracy when using general purpose	
		clamp sensor.	
Frequency meter range		40 to 70Hz	
External supply 100 to 240 AC(50/60Hz) 7.5VAmax			

	Power source	ource LR6(AA)(1.5V) × 6 (Battery life approx. 11 h)		
	Display / update period 160 × 160 dots, FSTN monochrome display / 500ms			
	PC card interface	SD card (2GB) *standard accessory		
	Communication interface	USB		
	Temperature and	23±5 °C, relative humidity 85% or less(no condensation)		
	humidity range			
	Operating temperature -10 to 50°C ,relative humidity 85% or less(no condensati			
	and humidity range			
	Storage temperature	-20 to 60°C ,relative humidity 85% or less(no condensation)		
	and humidity range			
	Applicable standards	IEC 61010-1 CAT IV 300V / CAT III 600V Pollution degree 2		
		IEC 61010-2-030, IEC 61010-031, IEC 61326		
	Dimension/Weight	$165(L) \times 115(W) \times 57(D)$ mm/Approx. 680g (including batteries)		
Accessories 7273(Voltage test lead)		7273(Voltage test lead)		
		8262(AC adapter)		
		7278(Earth cable)		
		7219(USB cable)		
		8326-02(SD card [2GB])		
		9125(Carrying case)		
		Instruction manual, Cable marker		
		Batteries		
	Optional accessories 8177(lor Leakage current clamp sensor 10A type ϕ 40m			
8178(lor Leakage current clamp sensor 10A type ϕ 68		8178(lor Leakage current clamp sensor 10A type ϕ 68mm)		
		8329(Power supply adapter)		
		8146, 8147, 8148 (Leakage & Load current clamp sensor)		
		8130, 8133 (Flexible clamp sensor)		
		8121, 8122, 8123 (Load current clamp sensor)		
		8124, 8125, 8126, 8127, 8128 (Load current clamp sensor)		
1	Shows insulation registance (D) values determined by the following formula			

Shows insulation resistance (R) values determined by the following formula.

Displayed value is just for reference since the measurement method differs from insulation resistance testers and may not be consistent with each other. In case of 3P3W and 3P4W, for a correct lor reading, the capacitance effect of each phase must be equal.

Accessories



MODEL 7273 Voltage test lead 3000mm



MODEL 8262 AC adapter



MODEL 7278 Earth cable 1500mm



MODEL 7219 USB cable 1500mm

Optional accessories



KEW 8178Ior leakage current clamp sensor 10A type φ68mm(3m)



KEW 8177Ior leakage current clamp sensor 10A type φ40mm(3m)



MODEL 8326-02 SD card [2GB]



MODEL 9125 Carrying case



Cable marker



MODEL 8329 Power supply adapter



Safety Warnings:

Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

For inquiries or orders:



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V: Reference voltage/ Ior: Leakage current