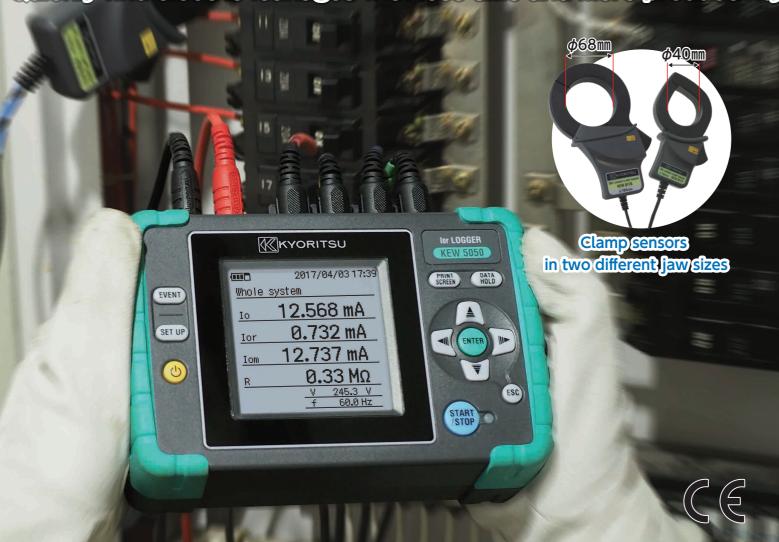


Ior LOGGER KEW 5050

Unpreceded for Losser!

Quickly find electric leakages with less time and more productivity



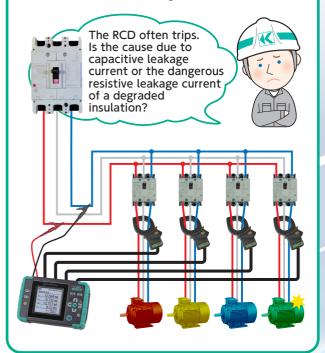
- Providing simultaneous measurement and logging on 4-system
- Supporting various wiring systems
 (Single-phase 2&3-wire, Three-phase 3&4-wire)
- Less susceptible to harmonics
- World's fastest class speed at 200ms interval for leakage current measurement
- Light weight with magnet on the back
- Offering traditional leakage / load current measurements as well

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 Ioc 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	4mounths	5mounths	
30sec.		11mounths	9mounths	
1min. or more		1year or more		

Special data analysis software

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.

Viewing data without using the software is possible by renaming the file with a CSV extension.

[System Requirements]

- OS: Windows® 11/ 10
- •Display: XGA (1024 × 768) or
- ●HDD: 1Gbyte or more
- ●Others: CD-ROM drive, USB port, .NET Framework 3.5, 4.6
- * Windows® is a registered trademark of Microsoft in the United States.



KEW Windows

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)
- **Solution Reference 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.

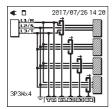


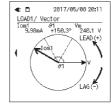




Various display modes

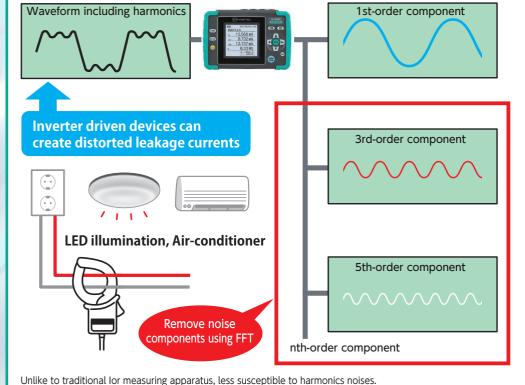
User-friendly graphical display of connections and phase differences.





New measurement method with FFT

Offering accurate lor measurement without being affected by noises or harmonics

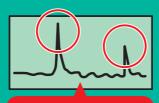


measurement

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.

Never miss intermittent leakages

Gapless continuous



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).

KEW 5050 Specification

	KEW 3030 C			
Wiring configuration		1P2W, 1P3W, 3P3W, 3P4W		
Measurements and		lor: Leakage current (TRMS) with resistive components only		
parameters		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		
loi	•			
	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 ±1.0°)		
	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 ing	out and Display Range are the same as lor		
	Accuracy	±0.2%rdg±0.2%f.s.+ clamp sensor amplitude accuracy		
Iom *Range, Allowable input and Display Range are the same as Ior				
	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)		
Ph	hase 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.		
Fre	equency meter range	·		
External supply AC100 to 240V(50/60Hz) 7.5VAmax				

Power source	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		
PC communication interface	USB		
Temperature and humidity range	23±5 °C, relative humidity 85% or less(no condensation)		
Operating temperature	-10 to 50°C ,relative humidity 85% or less(no condensation)		
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) × 115(W) × 57(D)mm/Approx. 680g (including batteries)		
Accessories	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, Software installation manual		
	LR6(AA) × 6		
	KEW Windows for KEW 5050(Software)		
Optional Accessories	8177(lor Leakage current clamp sensor 10A type \$\phi\$40mm)		
	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)		

Shows insulation resistance (R) values determined by the following formula. V: Reference voltage/ lor: Leakage current with resistive components only Displayed value is just for reference since the measurement method differs from insulation resistance testers and may not be consistent with each other.



MODEL 7273 Voltage test lead 3000mm



MODEL 8262 AC adapter



Kits

MODEL 7278 Earth cable 1500mm



MODEL 7219 USB cable 1500mm



MODEL 8326-02 SD card [2GB]



MODEL 9125 Carryng case



KEW Windows for KEW 5050 Software



Cable marker

Optional Accessories



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



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



MODEL 8329



KEW 5050-00 Power supply adapter Basic Model(main unit only)

KEW 5050-01



KEW 8178 × 1 Ior Leakage current clamp sensor 10A type ϕ 68mm (3m)

KEW 5050-02



KEW 8177 × 1 Ior Leakage current clamp sensor 10A type φ40mm (3m)



Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely Safety Warnings : In the instruction manual supplied with the instrument thoroughly and completely safety Warnings: 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.

COSINUS Messtechnik - Ihr Partner für Messlösung in allen elektrischen und physikalischen Anwendungen

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