

Ior LOGGER KEW 5050

Unpreceded lor Logger

Quickly find electric leakeses with less time and more productivity



- Supports various wiring systems (Single-phase 2&3-wire, Three-phase 3&4-wire*) *Except lor for 3 Phase 4 wire
- Large graphic display and magnet on the back
 - case to attach it on metal enclosures
- Offers both traditional leakage / load current measurements

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* 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 lor and loc separately to clarify the root cause of the electric leakage troubles.





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

Accessories and optional parts





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)					
Intorval	REC item				
intervat	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 or 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.

Please download the software from our website.

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



KEW 5050 Specification

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Wi	ring configuration	1P2W, 1P3W, 3P3W, 3P4W	Power source	LR6(AA)(1.5V) × 6 (Battery life approx. 11 h)	
Measurements and Ior : Leakage current (TRMS) with resistive components only		Display / update period	160 × 160 dots, FSTN monochrome display / 500ms		
parameters Io : Leakage current (TRMS) with basic wave of 50/ 60Hz only		PC card interface	SD card (2GB) *standard accessory		
Iom : Leakage current (TRMS) including harmonic components		Communication interface	USB		
V : Reference voltage (TRMS) with basic wave of 50/ 60Hz only		Temperature and	23±5 $^\circ$ C, relative humidity 85% or less(no condensation)		
		Vm : Reference voltage (TRMS) including harmonic components	humidity range		
R : Insulation resistance, Frequency(Hz), Phase angle(θ)		Operating temperature	-10 to $50^\circ\!C$,relative humidity 85% or less(no condensation)		
Other functions Digital		Digital output, Print screen, Backlight, Data hold	and humidity range		
Recording Interval 2		200/400ms/1/5/15/30s/1/5/15/30/60/120m	Storage temperature	-20 to $60^\circ\!C$,relative humidity 85% or less(no condensation)	
lor		and humidity range			
	Range	10.000/100.00/1000.0mA/10.000A/AUTO	Applicable standards	IEC 61010-1 CAT IV 300V / CAT III 600V Pollution degree 2	
	Accuracy	For reference voltages of sine wave 40 to 70Hz and 90V TRMS or higher, $\pm 0.2\% \text{rdg}$		IEC 61010-2-030, IEC 61010-031, IEC 61326	
		±0.2%f.s. + clamp sensor amplitude accuracy + error of phase accuracy* (phase error)	Dimension/Weight	$165(L) \times 115(W) \times 57(D)$ mm/Approx. 680g (including batteries)	
		* add ±2.0%rdg to measured Io value when using Ior leakage clamp sensor.	Accessories	7273(Voltage test lead)	
		($ heta$: within the accuracy of reference voltage/ current phase difference ±1.0°)		8262(AC adapter)	
	Allowable input	1 to 110% (TRMS) of each range, and 200% (peak) of the range		7278(Earth cable)	
	Display range	0.15 to 130% (display "0" for less than 0.15%, "OL" if the range is exceeded)		7219(USB cable)	
lo *Range, Allowable input and Display Range are the same as lor			8326-02(SD card [2GB])		
	Accuracy	±0.2%rdg±0.2%f.s.+ clamp sensor amplitude accuracy		9125(Carrying case)	
Iom *Range, Allowable input and Display Range are the same as lor			Instruction manual, Cable marker		
	Accuracy	±0.2%rdg±0.2%f.s.+ clamp sensor amplitude accuracy		Batteries	
	Measurement method	Sampling speed 40.96ksps (every 24.4µs), gapless, calculate TRMS values every 200ms.	Optional accessories	8177(lor Leakage current clamp sensor 10A type ϕ 40mm)	
Voltage				8178(lor Leakage current clamp sensor 10A type ϕ 68mm)	
	Range	1000.0V		8329(Power supply adapter)	
	Accuracy	±0.2%rdg±0.2%f.s. * for waveforms of sine wave 40 to 70Hz		8146, 8147, 8148 (Leakage & Load current clamp sensor)	
	Allowable input	10 to 1000V TRMS, and 2000V peak		8130, 8133 (Flexible clamp sensor)	
	Display range	0.9 to 1100.0V TRMS (display "0" for less than 0.9V, "OL" if the range is exceeded)		8121, 8122, 8123 (Load current clamp sensor)	
Phase angle(θ)			8124, 8125, 8126, 8127, 8128 (Load current clamp sensor)		
	Display range	play range 0.0 to ±180.0° (regarding the phase of reference voltage as 0.0°)		Shows insulation resistance (R) values determined by the following formula.	
	Accuracy	Within ±0.5° for the inputs of 10% or higher of leakage current range, sine wave	V: Reference voltage/ Ior: Leakage current		
		40 to 70Hz reference voltage of 90V TRMS or higher.	Displayed value is just for reference since the measurement method differs from		
		Within ±1.0° when using lor leakage clamp sensor, and	In case of 3P3W and 3P4W for a correct for reading the capacitance effect of each		
		Within ±0.5°+ clamp sensor accuracy when using general purpose		phase must be equal.	
		clamp sensor.	,		
Frequency meter range 40 to 70Hz					
External supply 100 to 240 AC(50/60Hz) 7.5VAmax					

Accessories



MODEL 7273

Voltage test lead 3000mm









MODEL 8326-02

SD card [2GB]



MODEL 9125 Carrying case

Safety Warnings :



Cable marker

MODEL 7219

USB cable 1500mm



Optional accessories

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



KEW 8177 Ior leakage current clamp sensor 10A type ϕ 40mm(3m)



MODEL 8329 Power supply adapter

Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failing to failing the afety 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.





KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

2-5-20, Nakane, Meguro-ku, Tokyo, 152-0031 Japan Phone:+81-3-3723-0131 Fax:+81-3-3723-0152

www.kew-ltd.co.jp



