



KEW 5050 Specifications

_	KEW 3030 3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Wi	ring 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				
		lom : 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 $angle(heta)$				
Other functions		Digital output, Print screen, Back light, Data hold				
Recording Interval		200/400ms/1/5/15/30s/1/5/15/30/60/120m				
lor						
- 1	Range	10.000/100.00/1000.0mA/10.000A/AUTO				
	Accuracy	±0.2%rdg±0.2%f.s. + clamp sensor amplitude accuracy*1 + error of phase accuracy*2				
		*1) Clamp sensor amplitude accuracy:sensor accuracy excluding the error range				
		*2) 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% - 110% (Trms) of each range, and 200% (peak) of the range				
	Display range	0.15% - 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				
Iom *Range, Allowable 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.				
Vo	Voltage					
	Range	1000.0V				
	Accuracy	±0.2%rdg±0.2%f.s. * for waveforms of sine wave 40 – 70 Hz				
	Allowable input	10 - 1000 V Trms, and 2000 Vpeak				
	Display range	0.9 V - 1100.0 V Trms (display "0" for less than 0.9 V, "OL" if the range is exceeded)				
Ph	ase 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 - 70 Hz reference voltage of 90 V Trms or higher.				
Frequency meter range		40 - 70Hz				
Ex	ternal supply	AC100 - 240V(50/60Hz) 7VAmax				

LR6(AA)(1.5V) x 6 (Battery life approx. 11 h)		
160 x 160 dots, FSTN monochrome display / 500 ms		
SD card (2GB) *standard accessory		
USB Ver2.0		
23±5 ℃, less than 85%RH(without condensation)		
-10 to 50°C less than 85%RH(without condensation)		
-20 to 60℃ less than 85%RH(without condensation)		
IEC61010-1 CATIV, 300V CATⅢ 600V Pollution degree 2		
IEC61010-2-030、IEC61010-031、IEC61326		
165(L)X115(W)X57(D)mm/approx. 680g (including batteries)		
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		
Alkaline size AA battery(LR6)x6		
KEW Windows for KEW 5050(software)		
8177(Ior Leakage clamp sensor 10A type ϕ 40mm)		
8178(lor Leakage clamp sensor 10A type ϕ 68mm)		
8329(Power supply adapter)		
KEW 8146, 8147, 8148 (Leakage & Load clamp sensor)		
KEW 8141, 8142, 8143 (Leakage clamp sensor)		
KEW 8129, 8130 (Flexible sensor)		
KEW 8121, 8122, 8123 (Load clamp sensor)		
MODEL 8124, 8125, 8126, 8127, 8128 (Load 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

Accsessories



MODEL 7273 Voltage test lead 3000mm



MODEL 8262 AC adapter



MODEL 7278 Earth Cable 1500mm



MODEL 7219 USB Cable 1500mm



MODEL 8326-02 SD Card



MODEL 9125 Carryng case



KEW Windows for KEW 5050 Software

KEW 5050-01 [Set Model]



Cable marker

Optional



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



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



MODEL 8329 Power supply adapter



KEW 5050-00 Basic Model(main unit only)

Set model



KEW 5050-02 [Set Model]



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

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



Please read the "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 correct the instrument as correct tower supply and voltage rating marked on each instrument. to operate the instrument on a correct power supply and voltage rating marked on each instrument.

For inquires or orders:

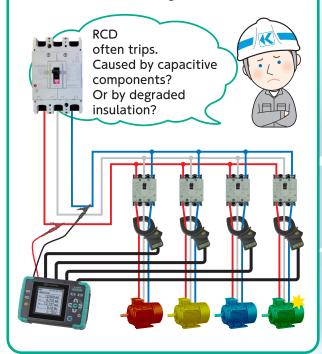


Tests and records 4-system simultaneously in 200 ms gapless

Can measure 4 systems at once!

Best to diagnose circuit breaker problems

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



USB terminal

Allows connection with PC and access to SD card



Strong magnets help to fix KEW5050 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				
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	1-year or more	4mounths	5mounths		

Special data analysis software

One-click graph and list generation. Visualizes timeline based graphs for easy analysis.

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]

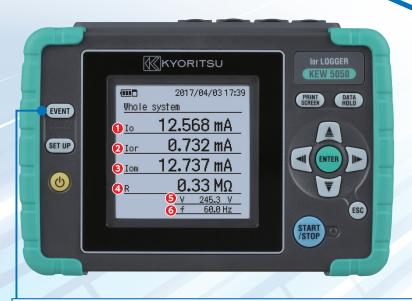
- OS: Windows® 10/8/7 ● Display: XGA (1024 × 768) or higher
- ●·HDD: 1Gbyte or more Others: CD-ROM drive, USB port, .NET Framework 3.5, 4.6



KEW Windows

Ior LOGGER



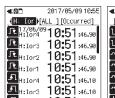


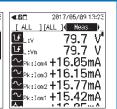
- Leakage current (1st-order component of Iom)
- Resistive leakage current
- 3 om Leakage current with harmonics
- Insulation resistance (determined by V and Ior)
- Reference voltage (1st-order component of Vm)
- **Frequency**

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.

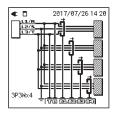






Various display modes

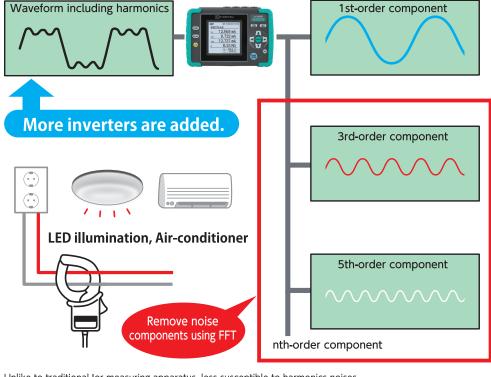
User-friendly graphical display of connections and phase differences.





New measurement method with FFT

Offering accurate lor measurement without being affected by noises or harmonics

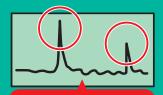


Unlike to traditional for measuring apparatus, less susceptible to harmonics noises. Successfully achieving logging with no effects of harmonics by Trms calculation every 200 ms using FFT (Fast Fourier Transform).

Never miss intermittent leakages

Gapless continuous measurement

Performs fast sampling (24.4 μ sec) continuously with gapless during logging to prevent intermittent leakages being overlooked as an event or max value.



No Ior measuring devices which can record intermittent leakages?



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