KEW 5050 Specifications

	KLW 3030 C	ppecifications			
Wi	ring configuration	1P2W, 1P3W, 3P3W, 3P4W			
Me	easurements 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(θ)			
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					
	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 Io value when using Ior 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			
lor	n *Range, Allowable i	nput 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 – 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			

Power source	LR6(AA)(1.5V) x 6 (Battery life approx. 11 h)		
Display / update period	160 x 160 dots, FSTN monochrome display / 500 ms		
PC card interface	SD card (2GB) *standard accessory		
PC communication-interface	USB Ver2.0		
Temperature and humidity range	23±5 ℃, less than 85%RH(without condensation)		
Operating temperature	-10 to 50℃ less than 85%RH(without condensation)		
and humidity range			
Storage temperature	-20 to 60℃ less than 85%RH(without condensation)		
and humidity range			
Applicable Standards	IEC61010-1 CATIV, 300V CATⅢ 600V Pollution degree 2		
	IEC61010-2-030、IEC61010-031、IEC61326		
Dimension/Weight	165(L)X115(W)X57(D)mm/approx. 680g (including batteries)		
Included 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		
	Alkaline size AA battery(LR6)x6		
	KEW Windows for KEW 5050(software)		
Optional accessories	8177(Ior Leakage clamp sensor 10A type \$\phi 40mm)		
	8178(Ior Leakage clamp sensor 10A type \$\phi\$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



MODEL 7273



MODEL 7278



MODEL 7219





MODEL 8326-02 MODEL 9125 Carryng case



for KEW 5050



KEW Windows



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

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



MODEL 8329



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



KEW 8178 × 1 Ior Leakage clamp sensor 10A type φ68mm (3m)

KEW 5050-02 [Set Model]

KEW 5050-01 [Set Model]



Ior Leakage clamp sensor 10A type



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 operate the instrument on a correct power supply and voltage rating marked on each instrument.

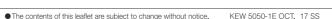
For inquires or orders:



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 E-mail:info-eng@kew-ltd.co.jp

http://www.kew-ltd.co.jp







Ior LOGGER KEW 5050



KYORITSU ELECTRICAL INSTRUMENTS WORKS,LTD.

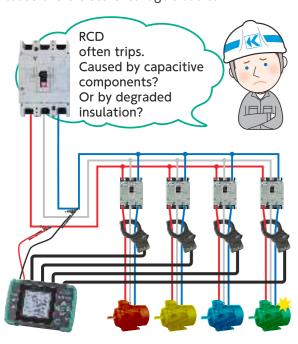
http://www.kew-ltd.co.jp

Tests and records 4-system simultaneously in 200 ms gapless

Can measure 4 systems at once!

Best to diagnose circuit breaker problems

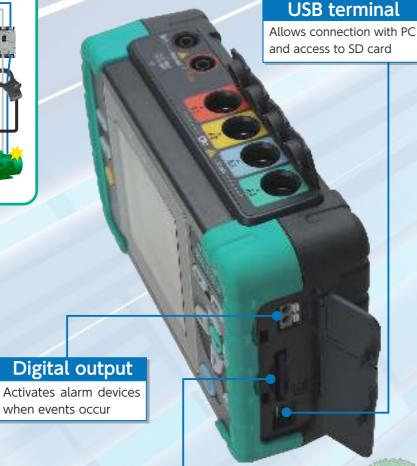
Measures Ior and Ioc separately to clarify the root cause of the electric leakage troubles.



Accessories and optional parts

Optional Power supply adapter is available to derive power via measurement terminal.

Cable markers for easy recognition





Strong magnets help to fix KEW5050 to the metal distribution board.

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			
30sec		11mounths	9mounths			
1min or more		1-year or more				

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® 107 87 7
- 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.

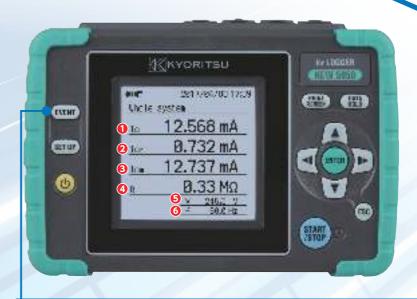


CONTRIBLES.

Kines

Ior LOGGER

KEW 5050

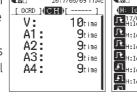


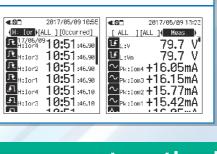
- 1 Leakage current (1st-order component of lom)
- 2 or Resistive leakage current
- **3** om Leakage current with harmonics
- 4 R Insulation resistance (determined by V and Ior)
- **5** V Reference voltage (1st-order component of Vm)
- **6** f Frequency

EVENT Quickly displays occurred events

Detailed information on the occurred events are displayed on the LCD.

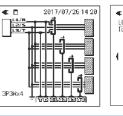
Different threshold values can be set for each channel and each event.

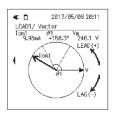




Various display modes

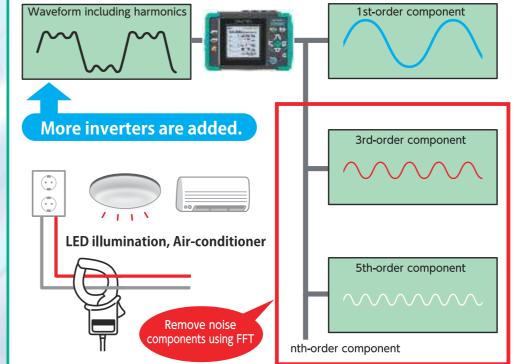
User-friendly graphical display of connections and phase differences.





New measurement method with FFT

Offering accurate lor measurement without being affected by noises or harmonics



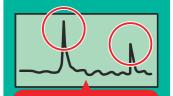
Unlike to traditional Ior measuring apparatus, less susceptible to harmonics noises.

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 μsec) continuously with gapless during logging to prevent intermittent leakages being overlooked as an event or max value



No lor measuring devices which can record intermittent leakages?

^{*} KEW5050 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).