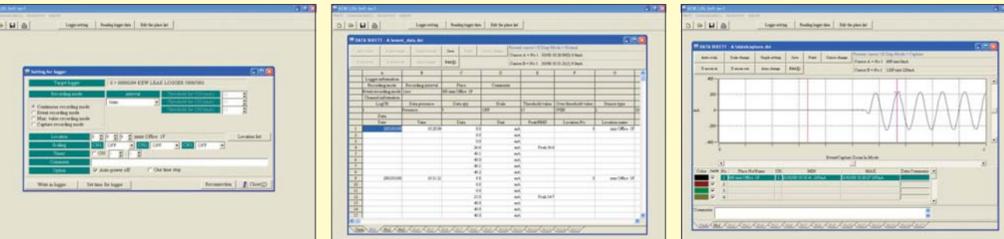


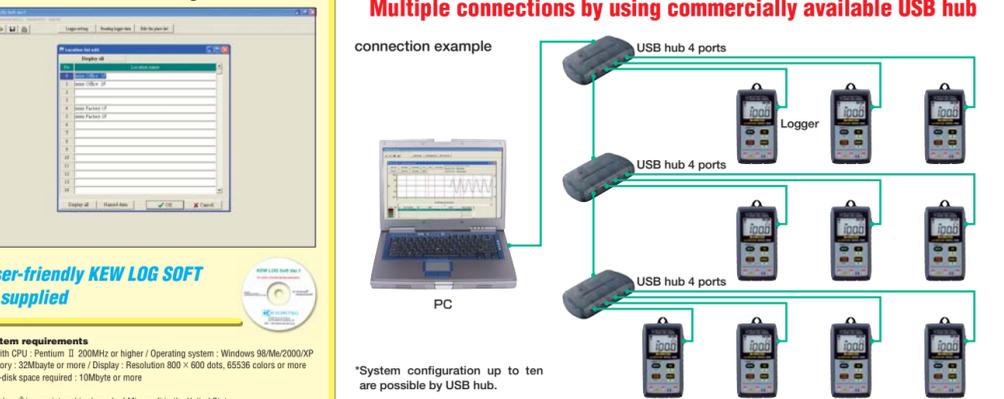
## DIRECT DATA TRANSMISSION TO PC BY USB CONNECTION

Software is Enhanced A large amount of the recorded data is analyzed and processed with the PC

- ① Easy setting with PC
- ② A large amount data is easily processed
- ③ The graph can be made by one click



### Multiple connections by using commercially available USB hub



**System requirements**  
 PC with CPU : Pentium II 200MHz or higher / Operating system : Windows 98/Me/2000/XP  
 Memory : 32Mbyte or more / Display : Resolution 800 x 600 dots, 65536 colors or more  
 Hard-disk space required : 10Mbyte or more

\*Windows is a registered trademark of Microsoft in the United States.  
 \*Pentium is a registered trademark of Intel in the United States.

## 4 RECORDING MODES ARE AVAILABLE FOR INSULATION MONITORING

- ① Continuous recording mode
- ② Event recording mode
- ③ The maximum value recording mode
- ④ Capture recording mode

Interval of measurement

Interval of recording

- To record the current change of a long term, and to measure and record at constant intervals, the state of leak that changes along with time is confirmed.
- The memory number is 60,000. ( 1ch only is used.)
- There are 15 kinds of settings at recording intervals from 1 second to 60 minutes.

8datas (about 8 msec)

- Frequency is confirmed at a momentary current value of the leak occurrence and time.
- The operation of ELB is obtained by sampling for 1.6 milliseconds.
- When the current setting value is exceeded, eight data ( a true effective value of about 0.8 seconds ) and peak values are recorded before and behind that.
- LED blinks when the current setting value is exceeded.

preset value

recording value

10 second interval

start recording

stop recording

- Easy finding of intermittent leak.
- The operation of ELB is obtained by sampling for 1.6 milliseconds.
- When exceeding set current value, it records the max. value every 10 seconds. The leak occurrence period of intermittent leak can be checked when the set current value becomes 50% or less, or 10 minutes will be recorded.
- LED blinks when the current setting value is exceeded.

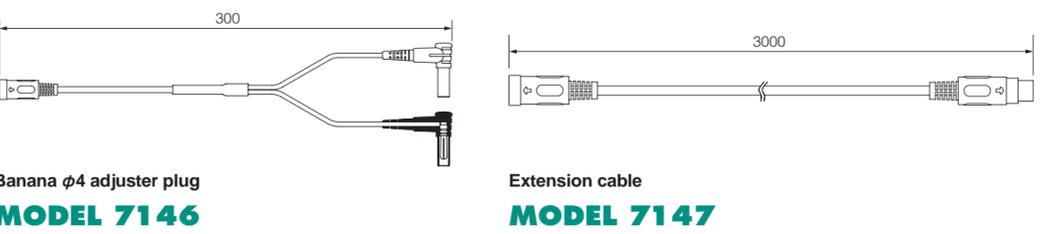
- The observation of the shape of waves is simply possible by sampling one millisecond.
- When the current setting value is exceeded, the instantaneous value of 200 milliseconds ( For 10 to 12 shape of waves ) is recorded before and behind that.
- LED blinks when the current setting value is exceeded.

## Leakage Clamp Sensor



	MODEL 8141	MODEL 8142	MODEL 8143
Size of conductor that can be measured	Max φ24mm	Max φ40mm	Max φ68mm
Range of input current	AC 0 to 1000mA	AC 0 to 1000mA	AC 0 to 1000mA
Output voltage	AC 0 to 100mV (AC 100mV/A)	AC 0 to 100mV (AC 100mV/A)	AC 0 to 100mV (AC 100mV/A)
Accuracy	±1.0%rdg±0.1mV (50/60Hz) ±2.0%rdg±0.1mV (40Hz~1kHz)	±1.0%rdg±0.1mV (50/60Hz) ±2.0%rdg±0.1mV (40Hz~1kHz)	±1.0%rdg±0.1mV (50/60Hz) ±2.0%rdg±0.1mV (40Hz~1kHz)
Withstand voltage	AC 3,700Vrms (1minute)	AC 3,700Vrms (1minute)	AC 3,700Vrms (1minute)
Cable length and output connector	Cable length 2m:MINI DIN 6pin	Cable length 2m:MINI DIN 6pin	Cable length 2m:MINI DIN 6pin
Operating temperature and range of humidity	0 to 50°C, 85% (non condensing)	0 to 50°C, 85% (non condensing)	0 to 50°C, 85% (non condensing)
Output impedance	about 200Ω	about 200Ω	about 120Ω
Safety standard	IEC 61010-2-032, pollution level 3	IEC 61010-2-032, pollution level 3	IEC 61010-2-032, pollution level 3
Externals size	100 (L) x 60 (W) x 26 (D) mm	128 (L) x 81 (W) x 36 (D) mm	186 (L) x 129 (W) x 53 (D) mm
Weight	about 150g	about 240g	about 490g
Accessory	Portable case (MODEL 9095)	Portable case (MODEL 9095)	Portable case (MODEL 9094)
Option	Banana φ4 adjuster plug (MODEL 7146) Extension Cable (MODEL 7147)	Banana φ4 adjuster plug (MODEL 7146) Extension Cable (MODEL 7147)	Banana φ4 adjuster plug (MODEL 7146) Extension Cable (MODEL 7147)

### Options



**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 inquires or orders :

**KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.**  
 No.5-20,Nakane 2-chome, Meguro-ku, Tokyo, 152-0031 Japan  
 Phone:81-3-3723-0131  
 Fax:81-3-3723-0152  
 URL:http://www.kew-ltd.co.jp  
 E-mail:info@kew-ltd.co.jp  
 Factories:Uwajima & Ehime

Quality and reliability is our tradition.



# New Release! CHANGE THE IDEAL WAY OF THE INSULATION MONITORING NOW MODEL 5000 Series



- TRUE RMS**
- ① The leakage current value of 1 to 3 channels can be recorded with the leakage clamp sensors, and 60,000 data can be recorded ( when using 1 ch )
- ② The recorded data can be transmitted to the personal computer directly by USB connection, and the data can be edited for analysis and the graphical display, etc.
- ③ LED blinks when the current setting value is exceeded
- ④ 4 recording modes that can correspond to any insulation monitoring are installed
  - ① Continuous recording mode
  - ② Event recording mode
  - ③ The maximum value recording mode
  - ④ Capture recording mode
- ⑤ Marvelous, continuous measurement time
  - Standard type : About 25 days ( MODEL 5000 )
  - Long life type : About 40 days ( MODEL 5001 )

## KEW LEAK LOGGER MODEL 5000/5001

KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

## THE LEAKAGE CURRENT IS RECORDED BY 3CH INPUT

## 60,000 DATA IS RECORDED

60,000 data is recorded when 1ch is used and when three all channels are used, 20,000 data is recorded for each channel

### Marvelous, continuous measurement time

Standard type : About 25 days (Model 5000)  
Long life type : About 40 days (Model 5001)

### Data where it doesn't disappear even if battery is consumed

Data doesn't disappear by using the nonvolatile memory when the battery is consumed and the battery is exchanged. (warranty for 10 years)

### Battery residual display

The battery state is displayed by 4 stages. (When blinking is displayed, it is possible to measure for about one day)

The present time, recording intervals, the start of recording, the recording method, the name of monitoring site and the comment can be set by using supplied software

### Selection of one time mode and endless mode

- **One time on**  
Stop recording when the memory is filled.
- **One time off (endless)**  
Overwrite from old data and leave the latest data.

### Recall function

- The latest 10 data can be checked.
- The recall data is  
Display month and date  
Display hour and minute  
Display current value

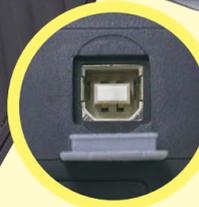
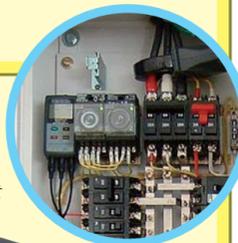
**LED BLINKS**  
when the current setting value is exceeded

As for the leakage clamp sensor, an arbitrary combination is possible

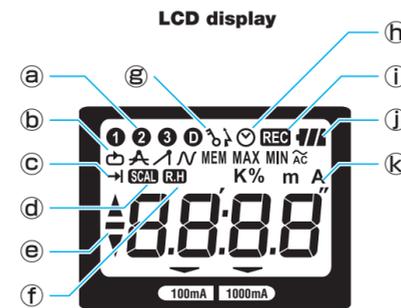
## THE LEAKAGE CLAMP SENSOR CAN BE CONNECTED UP TO THREE CHANNELS

THE LEAKAGE CLAMP SENSOR

It can be attached to the metallic plate with magnet

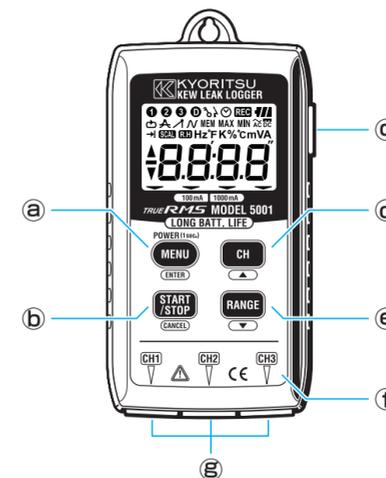


## Display and Panel



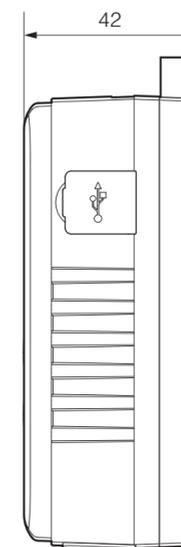
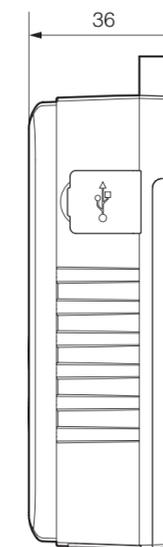
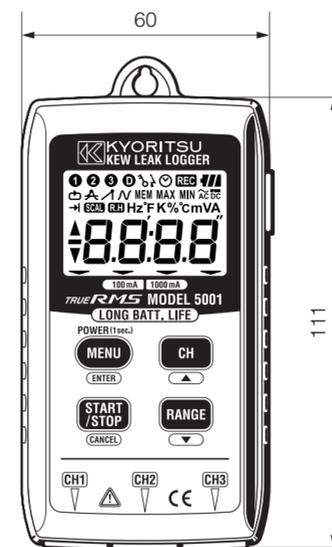
- Ⓐ Channel number
- Ⓑ Recording mode
- Ⓒ One time method
- Ⓓ Scale in operation
- Ⓔ Menu operation guide
- Ⓕ Range hold
- Ⓖ Auto power off is being released
- Ⓗ Clock and timer
- Ⓘ Display when being recording
- Ⓢ Battery mark
- Ⓚ Unit of measurement

## Main body operation part



- Ⓐ Power on-off  
Menu mode  
Menu selection  
Setting change  
Set registration
- Ⓑ Record beginning  
Record stop  
Return to the menu  
Set cancellation
- Ⓒ USB joint
- Ⓓ Channel display change  
Menu display change  
Set value change
- Ⓔ Range change  
Menu display change  
Set value change
- Ⓕ Current detection LED
- Ⓖ Leak clamp sensor connection connectors (3 ch)

## Externals Dimensional Drawing



MODEL 5000

MODEL 5001

\*Model 5000 and model 5001 have the difference in the size of the depth.

## Specification

- Measurements and precision (AC 50/60Hz)
- Continuous recording mode

Range	Measurement range	Accuracy	Accuracy of sensor combination
100mA	0 to 100.0mA	±1.0%rdg±5dgt	±2.0%rdg±10dgt
1000mA	0 to 1000mA		±2.0%rdg±6dgt

- Event recording mode / The maximum value recording mode

Range	Measurement range	Accuracy	Accuracy of sensor combination
100mA	0 to 100.0mA	±1.5%rdg±7dgt	±2.5%rdg±12dgt
1000mA	0 to 1000mA		±2.5%rdg±8dgt

- Capture recording mode \*Accuracy of electric current adjudication is different. For details, refer to the operation manual

Range	Measurement range	Accuracy	Accuracy of sensor combination
100mA	0 to 100.0mA	±3.0%rdg±12dgt	±4.0%rdg±17dgt
1000mA	0 to 1000mA		±4.0%rdg±13dgt

Operation method	Comparison method one by one		
Input	AC Voltage (AC 100mV/A)		
Ratings maximum operation voltage	AC 170mVrms, 250mV Peak value		
Number of input	3 channels		
Measurement method	Value of true RMS		
Measurement interval	1,2,5,10,15,20,30 sec. / 1,2,5,10,15,20,30,60 min.		
Over input display	Display "OL" when you exceed the time base range		
Warning of voltage of battery	Battery mark display of 4 stages		
Continuous available time	MODEL 5000: about 25 days on the event record mode (normal temp.) / MODEL 5001: about 40 days on the event record mode (normal temp.)		
Insulation resistance	over 50MΩ / 1000V		
Externals size	MODEL 5000 : 111 (L) × 60 (W) × 36 (D) mm / MODEL 5001 : 111 (L) × 60 (W) × 42 (D) mm		
Weight	MODEL 5000 : about 255g (include batteries) / MODEL 5001 : about 315g (include batteries)		
The maximum display	1049 counts		
Applicable standard	IEC 61010-2-032 (JIS C 1010-2-32), CAT.Ⅲ 300V / CAT.Ⅱ 600V, IEC 61326 (EMC standard)		
Battery	MODEL 5000 : Alkaline battery LR6 × 4 / MODEL 5001 : Alkaline battery LR6 × 6		
Accessory	Manual, Alkaline battery LR6, Software for making graphs (CD), USB cable, Portable case (MODEL 9119)		
Option	Leakage clamp sensor (MODEL 8141, MODEL 8142, MODEL 8143) / Hard case (MODEL 9119)		

## Option

### HARD CASE MODEL 9119

It can accommodate three leakage clamp sensors in the accommodation space of a hard case.



### The available combinations

Set model	MODEL 5000-1	MODEL 5000-2
Leak logger (Standard type)	MODEL 5000×1	MODEL 5000×1
Leakage clamp sensor	MODEL 8141 (φ24mm) ×1	MODEL 8142 (φ40mm) ×2
	MODEL 8142 (φ40mm) ×1	
	MODEL 8143 (φ68mm) ×1	MODEL 8143 (φ68mm) ×1

Set model	MODEL 5001-1	MODEL 5001-2
Leak logger (Long life type)	MODEL 5001×1	MODEL 5001×1
Leakage clamp sensor	MODEL 8141 (φ24mm) ×1	MODEL 8142 (φ40mm) ×2
	MODEL 8142 (φ40mm) ×1	
	MODEL 8143 (φ68mm) ×1	MODEL 8143 (φ68mm) ×1