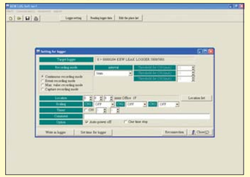
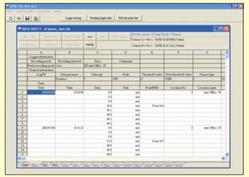
DIRECT DATA TRANSMISSION TO PC BY USB CONNECTION

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

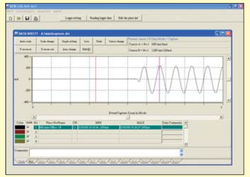
❶Easy setting with PC



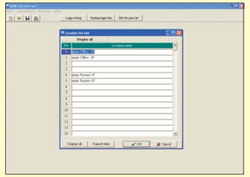
❷A large amount data is easily processed



❸The graph can be made by one click



❹The name of monitoring site



User-friendly KEW LOG SOFT is supplied

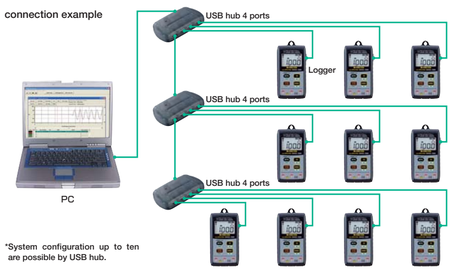
System requirements

PC with CPU : Pentium Ⅱ 200MHz or higher / Operating system : Windows 98/Me/2000/XP
Memory : 32Mbyte or more / Display : Resolution 800 × 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.

Multiple connections by using commercially available USB hub

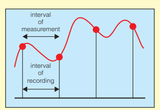
connection example



*System configuration up to ten are possible by USB hub.

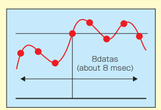
4 RECORDING MODES ARE AVAILABLE FOR INSULATION MONITORING

❶Continuous recording mode



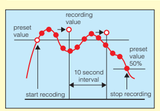
- To record the current change of a long term, and to measure and record at constant intervals, the state of leak that changes along with time is confirmed.
- The memory number is 60,000. (1ch only is used.)
- There are 15 kinds of settings at recording intervals from 1 second to 60 minutes.

❷Event recording mode



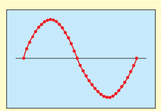
- Frequency is confirmed at a momentary current value of the leak occurrence and time.
- The operation of ELB is obtained by sampling for 1.6 milliseconds.
- When the current setting value is exceeded, eight data (a true effective value of about 0.8 seconds) and peak values are recorded before and behind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

❸The maximum value recording mode



- 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.

❹Capture recording mode



- 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

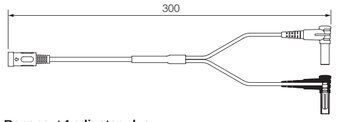
CE Ø24 **MODEL 8141**

CE Ø40 **MODEL 8142**

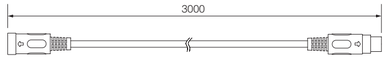
CE Ø68 **MODEL 8143**

	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 (AC100mV/A)	AC 0 to 100mV (AC100mV/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 connecter	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℃, 85% (non condensing)	0 to 50℃, 85% (non condensing)	0 to 50℃, 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) ×60 (W) ×26 (D) mm	128 (L) ×81 (W) ×36 (D) mm	186 (L) ×129 (W) ×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



Banana φ4 adjuster plug
MODEL 7146



Extension cable
MODEL 7147

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.
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Tokyo, 152-0031 Japan
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E-mail:info@kew-ltd.co.jp
Factories:Uwajima & Ehime

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Quality and reliability is our tradition.

ISO 9001 / ISO 9001
ISO 9001/EN 29001/BS 5750
APPROVED BY BVQI

KYORITSU

New Release! **CHANGE THE IDEAL WAY OF THE INSULATION MONITORING NOW**

MODEL 5000 Series

(Actual Size)

TRUE RMS CE

- **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)**
- **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.**
- **LED blinks when the current setting value is exceeded**
- **4 recording modes that can correspond to any insulation monitoring are installed**
  ❶Continuous recording mode ❷Event recording mode
  ❸The maximum value recording mode ❹Capture recording mode
- **Marvelous, continuous measurement time**
  Standard type : About 25 days (MODEL 5000)
  Long life type : About 40 days (MODEL 5001)

Standard type MODEL 5000

Long life type MODEL 5001

KEW LEAK LOGGER

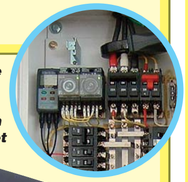
MODEL 5000/5001

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



▶*It can be attached to the metalic plate with magnet*

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 neme 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

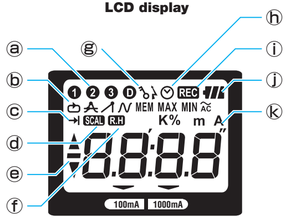
As for the leakage clamp sensor, an arbitrary combination is possible

THE LEAKAGE CLAMP SENSOR

THE LEAKAGE CLAMP SENSOR CAN BE CONNECTED UP TO THREE CHANNELS

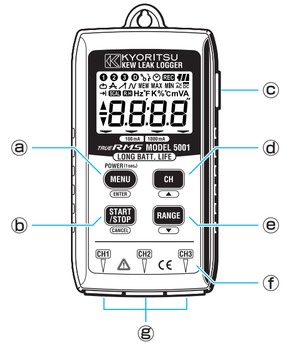
Display and Panel

LCD display



ⓐ 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

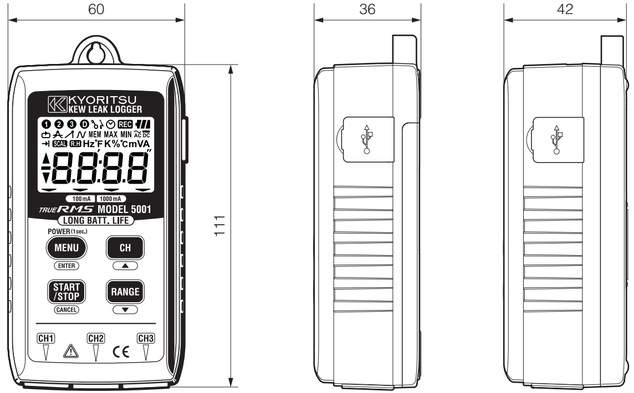
ⓔ Range change
Menu display change
Set value change

ⓕ Current detection LED

ⓖ Leak clamp sensor con -nection connectors (3 ch)

Externals Dimensional Drawing

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



MODEL 5000 MODEL 5001

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
Continous 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, Softwear for making graphs (CD), USB cable, Portable case (MODEL 9118)
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