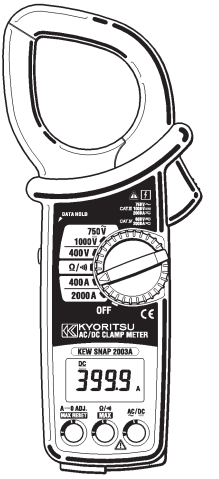
INSTRUCTION MANUAL



DIGITAL CLAMP METER

KEW SNAP SERIES

KEW 2003A

KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

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1. Safety Warnings

This instrument has been designed, manufactured and tested according to IEC 61010-1: Safety requirements for Electronic Measuring apparatus, and delivered in the best condition after passed the inspection. This instruction manual contains warnings and safety procedures which have to be observed to ensure safe operation of the instrument and maintain it in a safe condition. Thus, these operating instructions have to be read prior to using the instrument.

⚠ WARNING

- Read through and understand instructions contained in this manual before starting using the instrument.
- Save and keep the manual handy to enable quick reference whenever necessary.
- Be sure to use the instrument only in its intended applications and to follow measurement procedures described in the manual.
- Be sure to understand and follow all safety instructions contained in the manual.

Failure to follow the above instructions may cause injury, instrument damage and/or damage to equipment under test
Kyoritsu is by no means liable for any damage resulting from the instrument in contradiction to this cautionary note.

The symbol ⚠ indicated on the instrument means that the user must refer to related parts in the manual for safe operation of the instrument.
Be sure to carefully read the instructions following each ⚠ symbol in this manual.

⚠ DANGER is reserved for conditions and actions that are likely to cause serious or fatal injury. ⚠ WARNING is reserved for conditions and actions that can cause serious or fatal injury. ⚠ CAUTION is reserved for conditions and actions that can cause minor injury or instrument damage.

Following symbols are used on the instrument and in the instruction manual. Attention should be paid to each symbol to ensure your safety.

⚠	This symbol is marked where the user must refer to the instruction manual so as not to cause personal injury or instrument damage.
⧈	Indicates an instrument with double or reinforced insulation.
⧈ϟ	Indicates that this instrument can clamp on bare conductors when measuring a voltage corresponding to the applicable Measurement category, which is marked next to this symbol.
~	Indicates AC (Alternating Current).
⎓	Indicates DC (Direct Current).
≂	Indicates AC and DC.

⚠ DANGER

- Never make measurement on a circuit in the following categories;
  Measurement category Ⅳ (CAT Ⅳ) : over AC/DC600V
  Measurement category Ⅲ (CAT Ⅲ)or lower : over AC750V/DC1000V
- Do not make measurement when thunder is rumbling. Stop measurement and take off the instrument from the object under test.
- Do not attempt to make measurement in the presence of flammable gasses, fumes, vapor or dust. Otherwise, the use of the instrument may cause sparking, which can lead to an explosion.

- The transformer jaws are made of metal and their tips are not insulated.
  Where equipment under test has exposed conductive parts, be especially careful about the hazard of possible shorting. Not following this instruction may can danger to the user.
- Never attempt to use the instrument if its surface or your hand is wet.
- Do not exceed the maximum allowable input of any measurement range.
- Never open the battery compartment cover when making measurement.
- Never try to make measurement if any abnormal conditions, such as broken Transformer jaws or case is noted.
- To avoid electrical shock by touching the equipment under test or its surroundings, be sure to wear insulated protective gear.
- The instrument is to be used only in its intended applications or conditions. Otherwise, safety functions equipped with the instrument doesn't work, and instrument damage or serious personal injury may be caused.
- Keep your fingers and hands behind the barrier and protective fingerguard during measurement.

⚠ WARNING

- Adhere to local and national safety codes. Individual protective equipment must be used to prevent shock and arc blast injury where hazardous live conductors are exposed.
- Never attempt to make any measurement, if the instrument has any structural abnormality such as cracked case and exposed metal part.
- Do not turn the Function Selector switch with test leads connected to the instrument.
- Do not install substitute parts or make any modification to the instrument. Return the instrument to your distributor for repair or recalibration.
- Do not try to replace the batteries if the surface of the instrument is wet.
- Always switch off the instrument before opening the battery compartment cover for battery replacement.
- Always be sure to keep your fingers and hands behind the Safety barrier.
  (see ⑯ of 4. Instrument Layout) Otherwise, user may be exposed to the danger of electrical shock.
- Always attach the Cap onto the tip metal parts when using the test lead in the Measurement Category III. (CAT III) or higher environments.
  When the test leads are connected to the instrument, the lower category (voltage) either of them belongs to is applied.
- Stop using the test lead if the outer jacket is damaged and the inner metal or color jacket is exposed.

⚠ CAUTION

- Make sure that the Function Selector switch is set to an appropriate position before making measurement.
- Always make sure to insert each plug of the test leads fully into the appropriate terminal on the instrument.
- Be sure to set the Function Selector switch to the "OFF" position after use. When the instrument will not be in use for a long period of time, place it in storage after removing the batteries.
- Do not expose the instrument to the direct sun, extreme temperatures or dew fall.
- Use a damp cloth and detergent for cleaning the instrument. Do not use abrasives or solvents.
- Take sufficient care not to apply shock such as drop. Otherwise, precisely adjusted Transformer jaws will be damaged.
- Be careful not to pinch some foreign substances with the Transformer jaw tips.

○ Measurement categories (Over-voltage categories)

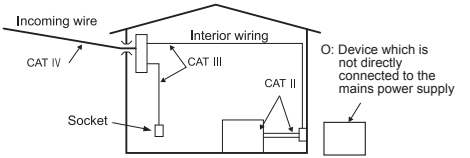
To ensure safe operation of measuring instruments, IEC 61010 establishes safety standards for various electrical environments, categorized as O to CAT IV, and called measurement categories. Higher-numbered categories correspond to electrical environments with greater momentary energy, so a measuring instrument designed for CAT III environments can endure greater momentary energy than one designed for CAT II.

O : Circuits which are not directly connected to the mains power supply.

CAT II : Electrical circuits of equipment connected to an AC electrical outlet by a power cord.

CAT III : Primary electrical circuits of the equipment connected directly to the distribution panel, and feeders from the distribution panel to outlets.

CAT IV : The circuit from the service drop to the service entrance, and to the power meter and primary overcurrent protection device (distribution panel).



2. Features

- Tear-drop-shaped jaws for ease of use in crowded cable areas and other tight places
- Provides a wide measuring range from 0 up to 2000A
- Terminal cover to avoid the use of incorrect use of the input terminals.
- MAX measurement function for easy reading of maximum input over a certain period of time
- Output terminal for long term current monitoring
- Safety design throughout conforming to the following provisions of IEC61010-1

  Pollution degree 2, overvoltage category Ⅳ 600V
  Pollution degree 2, overvoltage category Ⅲ 1000V
- Data hold function to allow for easy readings in dimly lit or hard-to-read locations.
- Sleep feature to conserve battery power.
- Permits easy continuity check with a beeper
- Provides a dynamic range of 4,000 counts full scale
- Wide frequency range from 40Hz to 1kHz
- Transformer jaws fitted will guard to further improve safety

3. Specifications

Measuring Ranges and Accuracy (at 23 ± 5℃, 45 to 85%RH)

DC Current ⎓

Range	Measuring Ranges	Accuracy
400A	0 to ±399.9A	±1.5%rdg±2dgt
2000A	0 to ±1999A	

AC Current ∼

Range	Measuring Ranges	Accuracy
400A	0 to 399.9A	±1.5%rdg±2dgt(50/60Hz) ±3.0%rdg±4dgt(40～500Hz) ±5.0%rdg±4dgt(500～1kHz)
2000A	0 to 1000A	±1.5%rdg±2dgt(50/60Hz) ±3.0%rdg±4dgt(40～500Hz) ±5.0%rdg±4dgt(500～1kHz)
	1001 to 1999A	±3.0%rdg±2dgt(50/60Hz)

DC Voltage (Input impedance:2MΩ) ⎓

Range	Measuring Ranges	Accuracy
400V	0 to ±399.9V	±1.0%rdg±2dgt
1000V	0 to ±999V	

AC Voltage (Input impedance:2MΩ) ∼

Range	Measuring Ranges	Accuracy
400V	0 to 399.9V	±1.5%rdg±2dgt(50/60Hz)
750V	0 to 749V	±1.5%rdg±4dgt(40～1kHz)

Resistance (Auto-ranging)

Range	Measuring Ranges	Accuracy
400Ω	0 to 399.9Ω	±1.5%rdg±2dgt
4000Ω	150 to 3999Ω	

Resistance (Fixed)

Range	Measuring Ranges	Accuracy
400Ω	0 ～ 399.9Ω	±1.5%rdg±2dgt (Buzzer beeps at 50±35Ω of less)

OUTPUT Voltage (Output impedance: about 10kΩ)

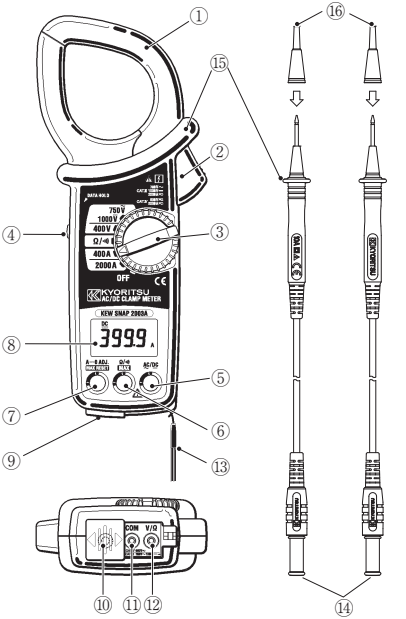
Range		DC Output Voltages	Input Currents	Accuracy
DC	400A	0 to 400.0mV	0 to 400A	±1.5%rdg±3mV
	2000A	0 to 200.0mV	0 to 2000A	±1.5%rdg±3mV
AC	400A	0 to 400.0mV	0 to 400A	±1.5%rdg±3mV(50/60Hz)
	2000A	0 to 100.0mV	0 to 1000A	±3.0%rdg±3mV(40～500Hz) ±5.0%rdg±3mV(500～1kHz)
		100.1 to 200.0mV	1001 to 2000A	±3.0%rdg±3mV(50/60Hz)

*Electromagnetic compatibility (EN 61000-4-3)
:RF field strength = <= 1V/ m, total accuracy = specified accuracy
:RF field strength =3V/m, total accuracy = specified accuracy +1% of range

- Operating System : Dual Integration
- Display : Liquid crystal display with maximum counts of 4000
- Low Battery Warning : "BAIT" symbol is displayed on the digital display.
- Overrange Indication : On each range, when the measured value exceeds the measuring range, "OL" mark appears on the LCD.
- Response Time : Approx. 2 seconds
- Sample rate : Approx. 2.5 times per second
- Location for use : Indoor / Outdoor use, Altitude up to 2000m
- Temperature and Humidity for Guaranteed Accuracy
  : 23℃±5, relative humidity up to 85% without condensation
- Operating Temperature and Humidity
  : 0 to 40℃ , relative humidity up to 85% without condensation
- Storage Temperature and Humidity
  : -20 to 60℃ , relative humidity up to 90% without condensation

- Power Source : Two R6P(DC1.5V) batteries or equivalent
- Current Consumption : Approx. 9mA max
- Sleep function : Automatically switches to the Sleep mode in about 10 minutes after the last switch or button operation (current consumption in the Sleep mode: about 20 μA)
- Safety Standard : IEC61010-1,IEC61010-2-032,IEC61010-2-033, IEC 61010-031 pollution degree 2
  overvoltage CAT Ⅳ 600V
  overvoltage CAT Ⅲ 1000V
- EMC : EN 61326-1
  : EN 61326-2-2
  : EN 55011
- Environmental standards : EU RoHS directive compliant
- Overload Protection : AC/DC current ranges 2400A AC/DC for 10sec
  AC/DC voltage ranges 1200V AC/DC for 10sec
  Resistance ranges 600V AC/DC for 10sec
- Withstand Voltage : 7000V AC for 5 seconds
  (between electrical circuit and housing cases or metal parts of jaws)
- Insulation Resistanc : 10MΩ or greater at 1000V
  (between electrical circuit and housing cases or, metal parts of jaws)
- Conductor Size : Approx. 55mm diameter max
- Dimensions : 250(L)×105(W)×49 (D)㎜
- Weight : Approx 530g
- Accessories : Test leads M-7107A ·····1set
  : R6P batteries ····· 2
  : Carrying case M-9094 ····· 1
  : Instruction manual ····· 1
- Accessories : Output Lead M-7256

4. Instrument Layout



①Transformer Jaws : Include current sensors
②Jaw Trigger : Used to open and close the transformer jaws
③Function Selector Switch
Selects function to use. Also switches off the instrument when set to the "OFF" position.
④Data Hold Button
Freezes the display reading with H symbol shown on the display when pushed in.

⑤AC/DC Button

Used to switch the instrument between the AC and DC modes. The instrument is set to the AC mode when it is powered on. Press this button to select the DC mode.

⑥Mode Button

A press of this button on a current or voltage range turns the instrument to the MAX measurement mode with **MAX** shown on the display. Press the button again to exit the MAX mode.

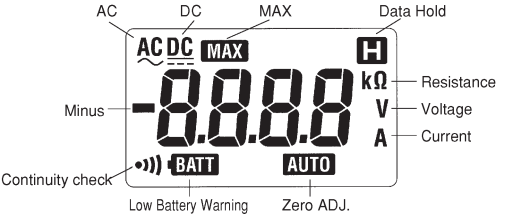
A press of the button on the resistance range turns the instrument to the continuity check mode with •)) symbol shown on the display. In this mode, the buzzer beeps when the reading is about 50Ω or less. Press the button again to exit the continuity check mode.

⑦Zero ADJ./RESET Button

Used for zero adjustment on 400A DC range or for resetting the reading in the MAX mode. **AUTO** symbol is shown on the display when zero adjustment is enabled on 400A DC range. (Zero adjustment is available only on 400A DC range.)

⑧LCD Display

Field effect type of liquid crystal display with maximum counts of 3999 and microprocessor-controlled annunciators and the decimal point.



⑨Terminal Cover

Used to enclose the input terminals (COM and V/Ω) when the OUTPUT terminal is in use, thus avoiding accidental application of voltage to the instrument.

⑩OUTPUT Terminal (for current measurement only)

Provides DC voltage in proportion to the reading on an AC or DC current range. The voltage is used for such purposes as long term monitoring with a recorder or other recording devices. This terminal cannot be accessed on a voltage or resistance range.

⑪COM Terminal

Accepts the black test lead for voltage or resistance measurement.

⑫V/Ω Terminal

Accepts the red test lead for voltage or resistance measurement.

⑬Safety Hand Strap

Prevents the instrument from slipping off the hand curing use.

⑭Test Leads (M-7107A)

Connect to COM and V/Ω Terminal terminals for resistance measurement.

⑮Barrier (2003A) and protective fingerguard (M-7107A)

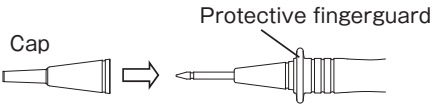
It is a part providing protection against electrical shock and ensuring the minimum required air and creepage distances.

⑯Test Lead Cap

Uncapped condition for CAT II environment

Capped condition for CAT III/ IV environments

The Cap shuld be firmly attached to the probes.



When the instrument and the test lead are combined and used together, whichever lower category either of them belongs to will be applied.

5. Preparation for Measurement

5-1 Checking Battery Voltage

Set the Function Selector switch to any position other than "OFF".

When the display is clear without **BATT** showing, proceed to measurement.

When the display blanks or **BATT** is shown, replace the batteries according to section 8: Battery Replacement

NOTE

The Sleep function automatically turns the instrument off in a certain period of time after the last switch operation. Therefore, the display may be blank with the Function Selector switch set to a position other than "OFF".

To operate the instrument in this case, set the switch back to the "OFF" position, then to the desired position, or press any button. If the display still blanks, the batteries have exhausted. Replace the batteries.

5-2 Checking Switch Setting

Make sure that the Function Selector switch is set to the correct position, the instrument is set to the correct mode and the Data Hold function is deactivated. Otherwise, desired measurement cannot be made.

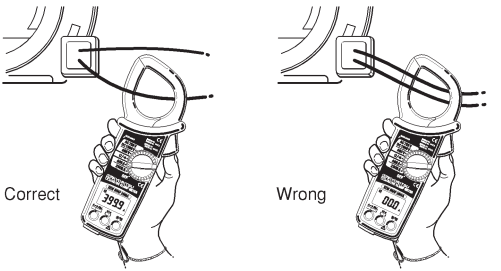
6. Measurement

6-1 DC Current Measurement

⚠ DANGER

- To avoid electric shock, never make measurement on a circuit in the following categories;
  Measurement category Ⅳ(CAT Ⅳ) : over AC/DC600V
  Measurement category Ⅲ(CAT Ⅲ)or lower : over AC750V/DC1000V
- Do not make measurement with the battery compartment cover removed from the instrument.
- Do not make current measurement with the test leads connected to the instrument.
- Keep your fingers and hands behind the barrier during measurement.

a. Set the Function Selector switch to the "400A" position and press the AC/DC button to select the DC mode. "DC" should be shown on the upper left corner of the display.
b. With the transformer jaws closed without clamping them onto the conductor, press the Zero ADJ. button for about one second to zero adjust the display. (The Zero ADJ button is enabled only on 400A DC range.) **AUTO** should be shown on the display.
c. Set the Function Selector switch to the position appropriate for the order of the current under test.



d. Press the trigger to open the transformer jaws and clamp them onto the conductor under test and take the reading on the display

NOTE

◇During current measurement, keep the transformer jaws fully closed. Otherwise, accurate measurement cannot be made. The maximum measurable conductor size is 55mm in diameter.

◇When the current flows from the upside (the display side) to the underside of the instrument, the polarity of the reading is positive and vice versa.

◇The output voltage from the OUTPUT terminal may not reduce to nil even if the display is zero adjusted with the Zero ADJ button. In this case, make zero adjustment on the recorder or other device that the output voltage is connected to.

6-2 AC Current Measurement

⚠ DANGER

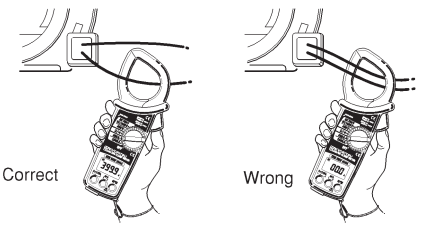
- To avoid electric shock, never make measurement on a circuit in the following categories;
  Measurement category Ⅳ (CAT Ⅳ) : over AC600V
  Measurement category Ⅲ (CAT Ⅲ) or lower : over AC750V
- Do not make measurement with the battery compartment cover removed from the instrument.
- Do not make current measurement with the test leads connected to the V/Ω and COM terminals
- Keep your fingers and hands behind the barrier during measurement.

a. Set the Function Selector switch to the "400A" or "2000A" position and select the AC mode. If the instrument is in the DC mode, press the AC/DC button once to select the AC mode. (The instrument is set to the AC mode when it is powered on.) "AC" should be shown on the upper left comer of the display.

b. Press the trigger to open the transformer jaws and clamp them onto the conductor under test and take the reading on the display.

◇During current measurement, keep the transformer jaws fully closed. Otherwise, accurate measurement cannot be made. The maximum measurable conductor size is 55mm in diameter.

◇Unlike in DC current measurement, zero adjustment is not necessary in AC current measurement. There is no polarity in the reading either

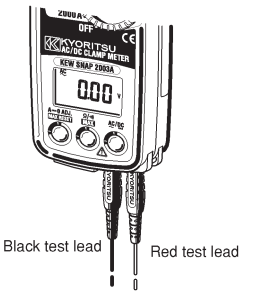


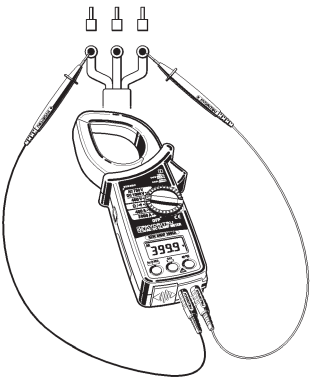
6-3 DC Voltage Measurement

⚠ DANGER

- To avoid electric shock, never make measurement on a circuit in the following categories;
  Measurement category Ⅳ (CAT Ⅳ) : over DC600V
  Measurement category Ⅲ (CAT Ⅲ) or lower : over DC1000V
- Do not make measurement with the battery compartment cover removed
- Keep your fingers and hands behind the protective fingerguard during measurement.

a. Set the Function Selector switch to the "400V" or "1000V" position.
b. Slide the terminal cover to the left. Plug the red test lead into the V/Ω terminal and the black test lead into the COM terminal.
c. Connect the other end of the tip of the red test lead the positive side of the circuit under test and the tip of the black test lead to the negative side. Take the reading on the display. If the test lead connection is reversed, the "−" sign is shown on the display.



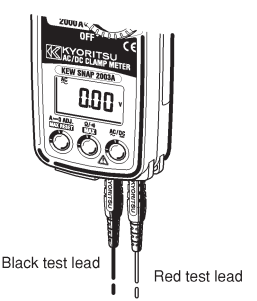


6-4 AC Voltage Measurement

⚠ DANGER

- To avoid electric shock, never make measurement on a circuit in the following categories;
  Measurement category Ⅳ (CAT Ⅳ) : over AC600V
  Measurement category Ⅲ (CAT Ⅲ) or lower : over AC750V
- Do not make measurement with the battery compartment cover removed
- Keep your fingers and hands behind the protective fingerguard during measurement.

a. Set the Function Selector switch to the "400V" or "750V" position. If the instrument is in the DC mode, press the AC/DC button once to select the AC mode. (The instrument is set to the AC mode when it is powered on.) The "AC" should be shown on the upper left corner of the display.
b. Slide the terminal cover to the left. Plug the red test lead into the V/Ω terminal and the black test lead into the COM terminal.
c. Connect the tip of the test leads to the circuit under test. Take the reading on the display.



6-5 Resistance Measurement

⚠ DANGER

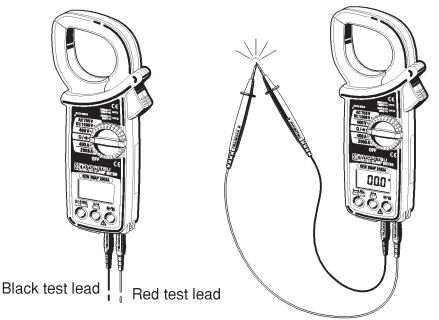
- Never try to make measurement on a circuit that is not deenergized.
- Do not make measurement with the battery compartment cover removed.
- Keep your fingers and hands behind the protective fingerguard during measurement.

a. Set the Function Selector switch to the (Ω/ •)) position.
b. Slide the terminal cover to the left. Plug the red test lead into the V/Ω terminal and the black test lead into the COM terminal.
c. Check that the display reads "OL". Then, short the tip of the test leads together and check that the display reads "0".
d. Connect the tip of the test leads to the circuit under test and take the reading on the display.

NOTE

◇When the tip of the test leads is shorted together, the display may read a very small resistance instead of "0". This is the resistance of the test leads, not a fault.

◇If one of the test leads has a break, the display reads "OL".



6-6 Continuity Check (Fixed 4000 range)

⚠ DANGER

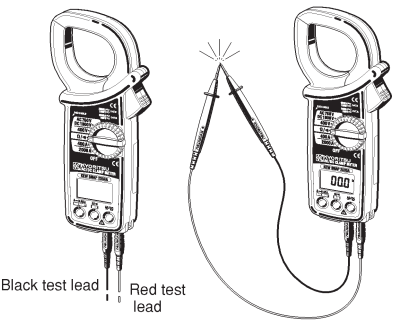
- Never try to make measurement on a circuit that is not de live.
- Do not make measurement with the battery compartment cover removed.
- Keep your fingers and hands behind the protective fingerguard during measurement.

a. Set the Function Selector switch to the (Ω/ •)) position.
b. Slide the terminal cover to the left. Plug the red test lead into the V/Ω terminal and the black test lead into the COM terminal.
c. Press the mode button to select the continuity check mode. The •)) symbol should be shown on the display
d. Check that the display reads "OL". Then short together the tip of the test leads and make sure that the display reads "0" and the buzzer beeps
e. Connect the tip of the test leads to the circuit under test. The buzzer beeps when the resistance is about 50 n or less.

NOTE

◇When the tip of the test leads is shorted together, the display may read a very small resistance instead of "0". This is the resistance of the test leads, not a fault.

◇If one of the test leads has a break, the display reads "OL".



6-7 MAX Measurement (Response time: 400ms)

The MAX measurement mode is used to display a maximum reading over a certain period of time. This function is available on all ranges other than Ω ranges.

⚠ DANGER

- Never make measurement on a circuit in the following categories;
  Measurement category Ⅳ (CAT Ⅳ) : over AC/DC600V
  Measurement category Ⅲ (CAT Ⅲ) or lower : over AC750/DCI000V
- Do not make measurement with the battery compartment cover removed.
- Do not make measurement with the test leads connected to the instrument.
- Keep your fingers and hands behind the barrier during measurement.

a. Set the Function Selector switch to the desired position.
b. Press the Mode button to select the MAX measurement mode.
   MAX should be shown on the display.
c. In order to take a correct reading, press the Zero Adjust/Reset button once after clamping the jaws onto the conductor or connecting the test leads to the circuit under test.
d. The display shows the maximum reading during measurement
e. Press the Zero Adjust/Reset button once again to return to the normal measurement mode.

NOTE

◇Data Hold function is disabled in MAX measurement mode.
◇For measurement over a period more than 10 minutes, disable the Sleep function according to the instruction in section 7-1: Sleep Function. Otherwise, the instrument automatically turns itself off in about 10 minutes.

7. Other Functions

7-1 Sleep Function

NOTE
The instrument consumes small amount of current in the Sleep (power-down) mode. Make sure to turn the Function Selector switch to the "OFF" position, when the instrument is not in use.

This is a function to prevent the instrument from being left powered on in order to conserve battery life. This function causes the instrument to switch to the Sleep (powered-down) mode about 10 minutes after the last switch or button operation.
To exit the Sleep mode, press any button or turn the Function Selector switch back to "OFF", then to any other position.

[How to disable the Sleep function]
Powering the instrument on with the Data Hold button pressed disables the Sleep function. "P.OFF" is shown on the display for about 3 seconds to indicate this.
To enable the Sleep function, turn the Function Selector switch back to "OFF", then to any other position.

NOTE
◇The Sleep function is disabled while the output plug is inserted into the OUTPUT terminal. When the output plug is disconnected from the terminal, the Sleep function is enabled in about 10 minutes.

7-2 Data Hold Function

This is a function used to freeze the measured value on the display. Press the Data Hold button to freeze the reading. The reading will be held regardless of the subsequent variation of current, voltage or resistance under test. **H** is shown on the upper right comer of the display.

To exit the Data Hold mode, press the Data Hold button again.

NOTE

◇The Data Hold mode is disabled when the instrument switches to the Sleep mode.

◇The Data Hold function is disabled in the MAX measurement mode.

7-3 OUTPUT Terminal (For current measurement only)

⚠ DANGER

- Never make measurement on a circuit in the following categories;
  Measurement category Ⅳ(CAT Ⅳ) : over AC/DC600V
  Measurement category Ⅲ(CAT Ⅲ) or lower : over AC750V/DC1000V
- Do not make measurement with the battery compartment cover removed.
- Never apply voltage to the OUTPUT terminal.

a. Slide the terminal cover to the right to enclose the COM and V/ n terminals.
   Insert the output plug into the OUTPUT terminal for connection with a recorder or other recording device.
b. Set the Function Selector switch to the "400A" or "2000A" position. (The output is available only in the two ranges.) Proceed to measurement in the DC or AC mode.

NOTE

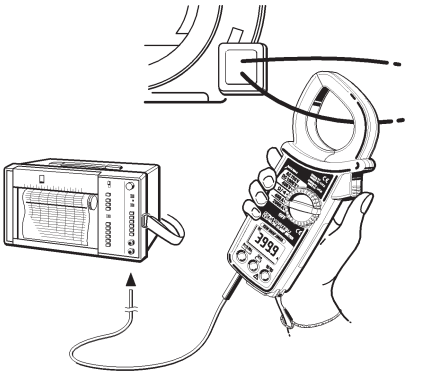
◇During current measurement, keep the transformer jaws fully closed. Otherwise, accurate measurement cannot be made. The maximum measurable conductor size is 55mm in diameter.

◇Unlike in DC current measurement, zero adjustment is not necessary in AC current measurement. There is no polarity in the reading either.

◇In the DC mode, the output voltage from the OUTPUT terminal may not reduce to nil even if the display is zero adjusted with the Zero ADJ button. In this case, make zero adjustment on the recorder or other device that the output voltage is connected to.

◇The Sleep function is disabled while the output plug is inserted into the OUTPUT terminal. When the output plug is disconnected from the terminal, the Sleep function is enabled in about 10 minutes.

◇Set the appropriate sensitivity on the recorder or other recording device. See section 3 for output voltage specifications.



8. Battery Replacement

⚠ WARNING

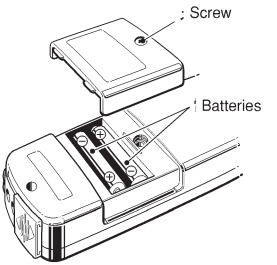
- To avoid electric shock hazard, make sure to set the Function Selector switch to "OFF" and remove the test leads from the instrument before trying to replace batteries

CAUTION

- Do not mix new and old batteries.
- Make sure to install batteries in correct polarity as indicated in the battery compartment.

If the instrument is powered on, but the display blanks or **BATT** is shown on the lower left corner of the display, replace the batteries.

a. Set the Function Selector switch to the"OFF" position.
b. Unscrew and remove the battery compartment cover on the bottom of the instrument.
c. Replace the batteries observing correct polarity. Make sure to use two new R6P batteries.
d. Replace and screw the battery compartment cover.



9. Disposing the Product

This Product complies with the WEEE Directive Marking requirement.
The affixed product label (see below) indicates that you must not Discard this electrical/ electronic in domestic household waste.

Product Category
With reference to the equipment types in the WEEE directive Annex 1, this product is classified as a "Monitoring and Control instrumentation" product.

MEMO

DISTRIBUTOR

Kyoritsu reserves the rights to change specifications or designs described in this manual without notice and without obligations.

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