

Thank you very much for selecting our AC clamp-on tester. These models are designed to be reliable measurements and employ a very reliable microchip design. The "heart" of these units is a microchip which ensures long term accuracy. Before you use your new instrument, please read the Instruction Manual completely and familiarize yourself with all functions and connections. We care your. Model 611 will give you years of service.

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1. FEATURES

- Y.L.C 80 pin LSI for low parts count that assures long term stability.
- Data-hold function. Especially useful when working in dark or hard to get areas.
- Ultra compact size.

2. SAFETY RULES

- Before operating this instrument, familiarize yourself with all instructions outlined in this manual.
- Always check to make sure that the function switch is set to the proper position.

- When making measurements, use CAUTION as dangerous voltages may be present in normally safe areas.
- To avoid electrical shock, use CAUTION when working above 60V DC or 25V AC rms. Such voltages pose a shock hazard.
- Never make measurements with the battery cover OFF.
- Never fail to keep the maximum tolerable input.
- Never operate this instrument if it becomes wet, damp or has any liquid condensation build-up on any part of the instrument.

3. SPECIFICATIONS

Measuring Method : Dual integration mode.

Display : 3.5 digit LCD max. reading of 1999.

Range : 0~20A/200A.

Accuracy :

23°C±5°C 80 %RH or less

Range	Resolution	Accuracy
20 A	10 mA	
200 A	100 mA	±1.2 %rdg ±5dgt (50/60 Hz)

Jaw Opening Capability : 23mm φ

Overload Indication : Blanking of all digits except MSD1.

Maximum Indication : 1999.

Low Battery : "B" Mark on LCD readout.

Sampling Time : 2 times/sec.

Limitation of circuit voltage : Less than AC 600V.

Operating Temperature : 0°C to +40°C<80%RH.

Storage Temperature : -10°C to +60°C<70%RH.

Power Supply : SR-44(1.55V)×2 or LR-44×2.

Power Consumption : 5mW.

Battery Life : SR-44(100hours), LR-44(50hours).

Size : 48 (W)×146 (H)×20 (D) mm.

Weight : Approx.80g.

Accessories : Soft case1
Instruction Manual1
Batteries, LR-44(1.55V)2

4. DIMENSIONS AND PANEL FUNCTION

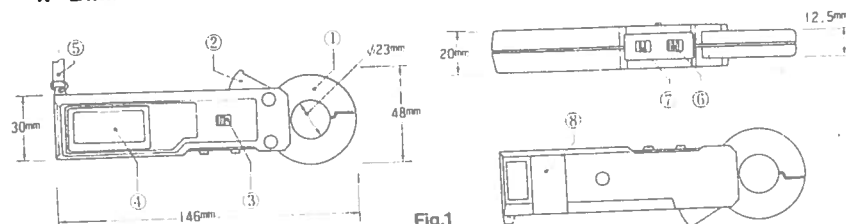


Fig.1

- 1 Current transducer (Jaw)
- 2 Jaw opening lever
- 3 Data hold switch
- 4 LCD display
- 5 Wrist strap
- 6 Range selector switch
- 7 Power switch
- 8 Battery cover

5. METHOD OF MEASUREMENT

5-1 Preparation and Caution before Measurement.

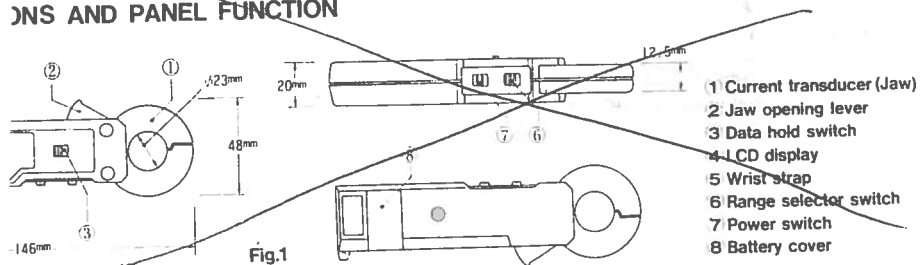
- Before making measurements, install the batteries. Two LR-44 batteries can be used.
- Avoid using CL-611 in places subject to high temperatures, humidity or excessive vibration.
- Do not use or store CL-611 in an area subject to magnetic fields or electric noises. Unstable readings and measurement error may result.

- Before turning the power on, the data hold switch is set to "OFF". It is impossible to make measurements if the data hold switch is set to "ON".
- Remove the battery if CL-611 is not used for a long period of time.

5-2 AC Current Measurement

1. Set the power switch to "ON".
2. Set the range selector to "20A" or "200A".

ONS AND PANEL FUNCTION



5. METHOD OF MEASUREMENT

5-1 Preparation and Caution before Measurement.

- Before making measurements, install the batteries. Two LR-44 batteries can be used.
- Avoid using CL-611 in places subject to high temperatures, humidity or excessive vibration.
- Do not use or store CL-611 in an area subject to magnetic fields or electric noises. Unstable readings and measurement error may result.

- Before turning the power switch "ON", be sure the data hold switch is set to "OFF" position. (It is impossible to make measurements if the data hold switch is set to "ON" position.)
- Remove the battery if CL-611 will not be used for a long period of time.

5-2 AC Current Measurement.

1. Set the power switch to "ON" position.
2. Set the range selector switch to a range appropriate to the current to be measured.

appropriate to the current to be measured.

3. Clamp the current transducer (jaw) around one of the conductors of the circuit under test.
4. If you make measurements in a dark place or in a place where it is difficult to see the readings, use the data hold switch, remove the jaw from the test circuit and observe reading.

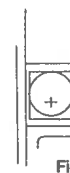
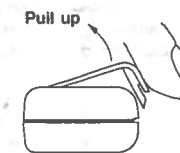
Note : Clamp around only one wire in the circuit to be measured.

Caution :

1. CL-611 is designed for low voltage applications.
2. To avoid electrical shock or damage to CL-611, the measurement should be limited to the circuit under 600 VAC.

6. REPLACEMENT OF BATTERIES

When the battery becomes exhausted or drops below the operating voltage, the "B" mark is displayed. Turn the power switch "OFF", prior to installing batteries. To install the batteries, remove the battery cover located on the unit back. (See Fig. 2) Insert the two LR-44 or SR-44 into the battery case making sure that proper polarity is observed. (See Fig. 3) Always replace both batteries at the same time. If the difference between the voltages of the batteries is big, the measurement error may be caused.



7. MAINTENANCE

When making requests for repair service, please bring the instrument directly to the dealer. If this is impossible, however, send the instrument directly to our sales office.

When mailing this instrument, always pack it in its original or equivalent packing material and pack together with name, address, telephone number and the warranty documentation.

- To ensure speedy and reliable repair, always include information as the type of failure and

cause.

- If required, always return accessories with the instrument.
- When contacting us, provide the model number and serial number of your instrument.