

MINI DIGITAL CLAMP-ON ADAPTOR

MODEL LAD-250

INSTRUCTION MANUAL

Thanks for your purchasing of our LAD-250 AC/DC current adaptor.

Before operating this instrument, read rule for safe operation and instructions carefully.

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1. FEATURES

- This AC/DC current adaptor is designed for use connected to the digital multimeter..
- Wide range of current measurement from 1A to 1000A(AC/DC).

2. CAUTION

- 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. SPECIFICATION

Range : AC current···200A/1000A

DC current···200A/1000A

Resolution : 001A or 0.1A

Minimum measurable current : AC/DC 0.1A

Accuracy : (23°C ± 5°C, 80% RH or less, after zero adjustment)

AC/DC 0~1000A··· ± 3.0% of output voltage

± accuracy of digital multimeter

Measuring sensor : Hole effect

Jaw opening capability : 40mm φ

Temperature coefficient 0~18°C, 28°C~50°C : Specified accuracy (23°C ± 5°C)x0.1/°C

Input resistance of digital multimeter : 1kΩ or more

Output voltage : AC/DC 200A range···DC 0~200mV output (1mV/A)

AC/DC 1000A range···DC 0~100mV output (0.1mV/A)

Output cord : 1.2m length with red and black plug

Limitation of circuit voltage : 250V or less

Withstanding voltage : AC 1500V, 1 minute (Between outer case core of CT)

Operating temperature : 0~50°C, 80% RH or less

Storage temperature : -20~60°C, 70% RH or less

Power supply : SR-44(1.55V)x2 or LR-44x2

Battery life : Approx. 30 hours continuous (by LR-44)

Low battery indication : "LO BATT" lamp

Size : 68(W)x175(H)x23(D)mm

Weight : Approx. 140gs

Accessories : Soft case··········1

Instruction manual········1

Batteries (LR-44)········2

4. DIMENSIONS AND PANEL FUNCTION

- | | |
|---------------------------|------------------------|
| ① Current transducer(Jaw) | ⑥ Plug for test lead |
| ② AC/DC switch | ⑦ Jaw opening lever |
| ③ Power switch | ⑧ Range switch |
| ④ Power lamp | ⑨ Zero adjustment knob |
| ⑤ Low battery lamp | ⑩ Battery cover |

5. PREPARATION AND CAUTION BEFORE MEASUREMENT

- After observing the power switch is set to OFF, remove the battery cover located on the unit back.
Insert the LR-44 or SR-44 into the battery case making sure that proper polarity is observed. (See Fig.)

- When the battery becomes exhausted or drops below operating voltage, the low battery lamp is lightened.
Always replace both batteries at the same time.

6. METHOD OF MEASUREMENT

- ① Turn on the power of the digital multimeter and set the function switch to DC 200mV input range for full scale (or Adaptor range).
- ② Connect the plugs of the clamp-on adaptor to the terminals of the digital multimeter
- ③ Turn on the power of the clamp-on adaptor.
- ④ Set the AC/DC switch to AC or DC depending upon the signal to be measured.
- ⑤ Set the range switch to the desired range.
- ⑥ Adjust the zero adjustment knob to read zero in the display of digital multimeter.
- ⑦ Clamp the conductor of the circuit under test with the current transducer.
Note : Clamp around only one conductor in the circuit to be measured.
- ⑧ Read the displayed value.
- ⑨ After measurement, set the power switch to “OFF”.

CAUTION:

- This adaptor is designed for low voltage applications.
- To avoid electrical shock or damage, the measurement is limited to the circuit under 250V AC/DC.

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.