

ELIT 2007B Lekkasjestrømtang Brukermanual



- Skyv "power knappen" til ON
- Velg 200mA måleområde om forventet strøm er under dette, eller 20A om strøm som skal måles er over 200mA
- Plasser tangkjeften rundt alle aktive faseledere på kursen/avgangen det ønskes å måle lekkasje strøm på --> begge fase ledere på en 1-fase kurs. Alle 3 faseledere på en 3-fase kurs uten N og alle 3 faseledere+N på 3-fase kurser med distribuert N-leder
- Les av lekkasje strøm i displayet.
- Om tangkjeften plasseres kun rundt en faseleder vil laststrømmen måles og vises.
- OBS maks strøm er 20A og maks spenning er 600V
- Se siste side for skifte av batteri.

AC CURRENT MINI DIGITAL CLAMP-ON TESTER

ELIT 2007B

INSTRUCTION MANUAL

Thank you very much for selecting our digital AV clamp-on tester.

This model is complex instrument and employ a very reliable mechanical/electronic design.

Before you use your new instrument, read this Instruction Manual completely and familiarize yourself thoroughly with all functions. With proper use and care, your tester will give you years of satisfactory service.

1. FEATURES

- This tester is a clamp-on type leakage ammeter which represents the latest in current transducer and digital technology and is the world's smallest and most accurate clamp-on type instrument of its type.
- Compact and lightweight.
- This tester is least affected by the external magnetic field.
- Very small electric current flowing into a grounded wire can be measured by high sensitive current transducer.
- The current transducer uses a special alloy that resists rust over long period of use and ensures stable, high accuracy measurements with very slight influence from aging.

2. CAUTION

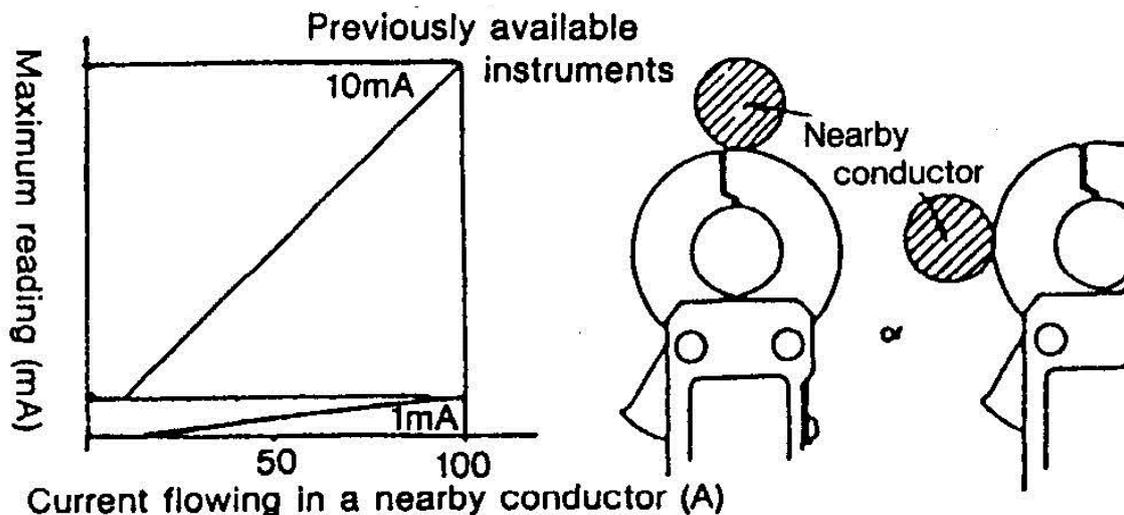
- Before operating this instrument, familiarize yourself with all instructions outlined in this manual.
- Always check to make sure that the function switch is set to the proper position.
- When making measurements, use CAUTION as dangerous voltages may be present in normally safe areas.
- To avoid electrical 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.
Never make measurements for uninsulated conductors or bus bars.

3. SPECIFICATION

Measuring Method: Dual integration mode
 Display: 3.5 digit LCD max. reading of 1999
 Range: 0~200mA/20A
 Accuracy: 23°C±5°C, 80%RH or less

Range	Resolution	Accuracy
200mA	0.1mA	±1.0%rdg ±5dgt(50/60Hz)
20A	10mA	

Jaw opening capability: 18mmφ
 Over range indication: Blanking of all digits except MSD1
 Maximum indication: 1999
 Low battery indication: "B" mark on LCD
 Data hold indication: "DH" mark on LCD
 Sampling time: Approx. 2 times/s.
 Limitation of circuit voltage: Less than AC 600V
 Withstanding Voltage: AC 2000V (between the core of CT and rear case)
 Operating temperature: 0°C to +40°C, < 80%RH
 Storage temperature: -10°C to +60°C, < 70% RH
 Power supply: SR-44 (1.55V), LR-44x2
 Power consumption: Approx. 3mW
 Battery life: Approx. 100 hours (LR-44)
 Approx. 200 hours (SR-44)
 Size: 45.0(W)x140(H)x20(D)mm
 Weight: Approx. 80 gs.
 Accessories: Batteries, LR-44 (1.55V).....2
 Instruction manual.....1
 Soft case.....1



4. DIMENSIONS AND PANEL FUNCTION

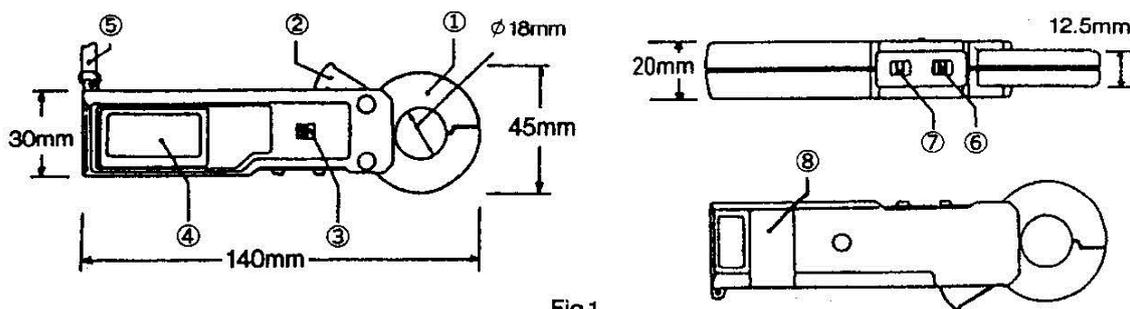


Fig.1

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

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 the tester in places subject to high temperatures, humidity or excessive vibration.
- Before measurements, be sure 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 the tester will not be used for a long period of time.

5-2. Measurement of Leakage Current

5-2-1 . Leakage current measurement for the grounded conductor

- 1) Set the power switch to "ON" position.
- 2) Set the range selector switch to a range appropriate to the current to be measured.
- 3) Clamp the conductor of the circuit under test with the current transducer.
- 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.

5-2-2. Leakage current measurement for the single-phase or three-phase electric circuit.

- 1) Set the power switch to "ON" position.
- 2) Set the range selector switch to a range appropriate to the current to be measured.
- 3) To measure a leakage current in a single-phase electric circuit, clamp the two conductors together. Or clamp the three conductors together in the case of the three-phase electric circuit.
- 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.

5-3. Measurement of Line Current

- 1) Set the power switch to "ON" position.
- 2) Set the range selector switch to a range appropriate to the current to be measured.
- 3) Clamp the conductor 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.

Note: Clamp around only one conductor of the circuit to be measured.

APPENDIX:

When making the power switch on and off several times quickly for the short period, the display may show "O.L" according to circumstances.

Make switching power on/off with the interval more than 2 sec.

CAUTION:

This tester is designed for low voltage applications.

To avoid electrical shock or damage, the measurement is limited to the circuit under 600V AC.

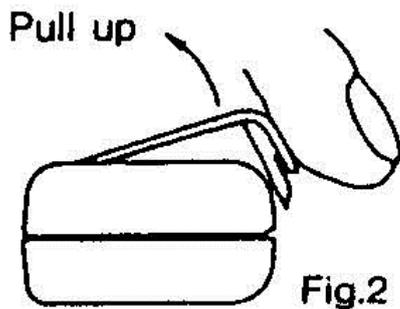
6. REPLACEMENT OF BATTERIES

When the battery becomes exhausted or drops below the operating voltage, the "B" mark is displayed. Turn the power switch to "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.



Place batteries with positive side up.

