1. Safety Warnings

This instrument has been designed, manufactured and tested according to IEC standards for electrical equipment. The user must refer to the related parts in the manual for safe operation of the instrument and to maintain it in safe condition. Therefore, read through these operating instructions before using the instrument.

**WARNING**

- Read through and understand the instructions contained in this manual before using the instrument.
- Keep the manual at hand to enable quick reference whenever necessary.
- Understand and follow all the safety instructions contained in the manual.
- It is essential that the above instructions are adhered to. Failure to follow the above instructions may repair the protection provided by the instrument and leads, and may cause injury, instrument damage or damage to equipment under test.

2. Other Functions

**REL function**

Press the REL key to enable this function and store the measured value to display the difference between the stored value and the present value. The display will hold the REL mode range will be between 1% and 10% of the maximum range when the REL function is used, and the measured range will be between 10% and 100% of the maximum range.

Press the REL key again to release the stored value.

**Function Switch**

Press the SELECT key while the Function switch is in ACA position. Press the SELECT key while the Function switch is in DCA position.

**ACV / DCV / DCA / ACMA measurement**

- Before starting a measurement, always check and confirm the test leads. The measuring range of the test leads are connected to the proper input terminals.
- Never measure a circuit on which voltage over 1000V is applied and hands behind the barrier during the measurement.

4.1 ACV / DCV / DCA / ACMA measurement

(1) Set the Function switch to the resistance position. For continuity check or diode test, press the SELECT key.

4.2 Clamp sensor (option) measurement

(1) Set the Function switch to ACA or DCMA position. For AC voltage measurement, set the switch to ACV and press the SELECT key.

5. Resistance / Diode / Continuity / Capacitance Measurement

- Never use the instrument on an energized circuit. Discharge the sample thoroughly before checking the measurement.

(1) Set the Function switch to the resistance position. For continuity check or diode test, press the SELECT key.

6. ACA / DCA Measurement

- The value for the maximum input current on ACA and DCA ranges to 10A protected by fuse. Do not apply current beyond this limit.

7. Battery / Fuse Replacement

- Replace the batteries with two new 3V alkaline batteries. The instrument will not operate if the battery is completely exhausted.
- Replace the fuse when the instrument is unable to display a reading. The fuse may become hot after current measurement and may cause injury. Be careful when replacing the fuse.

**CAUTION**

- Do not disassemble the instrument or battery compartment.
- Do not disassemble the instrument or battery compartment.
- Be careful when replacing the fuse.
- Do not use corrosive or volatile chemicals when cleaning the instrument.
- Be careful when replacing the fuse.
- Be careful when cleaning the instrument.

**NOTE**

- Always use new batteries when the “LOW battery voltage” message appears in the display.
- Replace the fuse when the instrument is unable to display a reading. The fuse may become hot after current measurement and may cause injury.