1. Safety Warnings

The instrument has been designed and tested according to IEC Publication 61010-1. Before using the instrument, read these safety warnings and notes carefully, and make sure that you understand them. If you don’t understand anything, do not use the instrument, and ask for help from a qualified technician.

1.1. Power supply

Ensure that the power supply voltage is within the range of 100V to 240V before using the instrument. When using the instrument, be sure to use the appropriate phase and the correct power supply. When not using the instrument, turn off the power supply. After turning off the power supply, wait for a period of time (at least 5 minutes) before turning it on again. When the instrument is not in use, turn off the power supply to avoid unnecessary power consumption, energy loss, and potential safety hazards.

1.2. Operation

Proceed with the following precautions:

a) Do not use the instrument in environments with high temperature, high humidity, or strong electromagnetic interference.

b) Do not use the instrument in environments where flammable or explosive substances are present.

c) Keep the instrument away from water and other liquids.

1.3. Maintenance

This instrument requires regular maintenance to ensure proper operation. Please check the instrument and its accessories regularly, and take appropriate maintenance actions as needed.

1.4. Faults

If the instrument fails to perform properly, do not attempt to repair it yourself or use it. Contact a qualified technician for repair.

2. Features

This instrument has a range of features that make it suitable for various measurement tasks. Some of the key features include:

- AC/DC measurement
- Temperature & Humidity measurement
- Current & Voltage measurement
- Resistance measurement
- Capacitance & Leakage current measurement
- Diode test
- Non-invasive measurement
- Frequency measurement
- Power factor measurement
- Phase error measurement
- Current: 10A, 20A, 40A, 100A, 200A
- Voltage: 600V, 1000V, 1500V, 2500V, 3000V
- Frequency: 0Hz to 1MHz
- Resistance: 0Ω to 10GΩ
- Capacitance: 0pF to 10mF
- Leakage current: 0nA to 1mA
- Diode test: AC/DC
- Non-invasive measurement: AC/DC
- Frequency measurement: 0Hz to 1MHz
- Power factor measurement: 0 to 1
- Phase error measurement: 0 to 360°

3. Specification

3.1. AC/DC measurement

RMS measurement range: 0.5μA to 10A

3.2. Temperature & Humidity measurement

Temperature range: -20°C to 50°C

Humidity range: 10% to 90% RH

3.3. Current & Voltage measurement

Current range: 0μA to 10A

Voltage range: 0μV to 1000V

3.4. Resistance measurement

Range: 0Ω to 10GΩ

Resolution: 0.1Ω

Accuracy: ±5% of reading ±3 digits

4. INSTRUMENT LAYOUT

5. Preparation

6. Measurements

7. Other functions

8. Battery replacement

9. Conclusion

10. References

For more detailed information, please refer to the instrument manual.