1. Safety Warnings

This instrument has been designed, manufactured and tested according to IEC 61010: Safety requirements for Electronic measuring apparatus, and delivered in the best condition after passed the inspection. This instruction manual contains warnings and safety rules which must be observed by the user to ensure safe operation of the instrument and retain 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.
- The instrument is to be used only in its intended applications.
- 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 impair the protection provided by the instrument and test leads, and may cause injury, instrument damage and/or damage to equipment under test.

The symbol △ indicated on the instrument means that the user must refer to the related parts in the manual for safe operation of the instrument. It is essential to read the instructions wherever the symbol appears in the manual.

**DANGER** is reserved for conditions and actions that are likely to cause serious or fatal injury.

**WARNING** is reserved for conditions and actions that can cause serious or fatal injury.

**CAUTION** is reserved for conditions and actions that can cause injury or instrument damage.

- Marks listed below are used on this instrument.
- User must refer to the manual.

Instrument with double or reinforced insulation

Indicates that this instrument can clamp on bare conductors when measuring a voltage corresponding to the applicable measurement category, which is marked next to this symbol.

- AC △ DC ◯ Ground (Earth)
- This instrument is subject to WEEE Directive (2002/96/EC). Please contact our dealer near you at disposal.

**Measurement Category**
- Circuits which are not directly connected to the mains power supply.
- CAT II Primary electrical circuits of equipment connected to an AC electrical outlet by a power cord.
- CAT III Primary electrical circuits of the equipment connected directly to the distribution panel, and feeders from the distribution panel to outlets.
- CAT IV The circuit from the service drop to the service entrance, and to the power meter and primary over current protection device(distribution panel).

**CAUTION**
- Use of this instrument is limited to domestic, commercial and light industry applications. Strong electro magnetic interference or strong magnetic fields, generated by large currents, may cause malfunction of the instrument.
- This instrument isn’t waterproof. Keep away from water.
- Do not pull or twist the test leads to prevent the risk of damage.
- Power off the instrument after use. Remove batteries if the instrument is to be stored and will not be in use for a long period.
- Do not expose the instrument to the direct sunlight, high temperature and humidity or dewfall.
- Use a cloth dipped in water or neutral detergent for cleaning the instrument. Do not use abrasives or solvents.

2. Specification

**Temperature:** 23 ± 5°C, Humidity: 45 - 75%

**AC**

- **Range**
  - Display Range: 0.0, 0.6-629.9A
  - 40-400Hz
  - ±1.5%rdg±4dgt
  - ±1.2%rdg±3dgt

- **DC**
  - 600V 0.0, 0.6-629.9V
  - ±1.5%rdg±4dgt
  - ±1.2%rdg±3dgt

**Input protective voltage:** AC/DC600V 10 sec

**Guaranteed accuracy:** ±0.2%rdg±3dgt

**Resistance/Continuity**

- **Range**
  - Display Range: 0.0-629.9Ω
  - ±1%rdg±5dgt

- **DC**
  - 6kΩ 0.570-6.299 kΩ
  - ±1%rdg±5dgt

**Digital Clamp Meter KEW2007R**

- Measurement Category: CAT IV 300V / CAT III 600V
- This instrument is designed for CAT IV 300V / CAT III 600V. Test leads M-7066A with the supplied cap are designed for CAT IV 600V / CAT III 1000V and without the caps are for CAT II 1000V.
Operating Temperature and humidity range: 0 to 40°C 85%RH or less (no condensation)
Storage Temperature and humidity range: 0 to 60°C 85%RH or less (no condensation)
Power source: DC3V R03 / LR03 (AAA) × 2
Current consumption: < 4mA
Battery life (ACA, continuous, no load, with R03): approx. 170 hours
Dimension, Weight: 204(L)×81(W)×36(D)mm, approx. 220g (including batteries)

Accessories:
- Test leads Model 7066A 1set
- Battery R03(AAA) 2pcs
- Instruction manual 1pce
- Carrying case Model 9079 1pce

3. ACA Measurement

**DANGER**
- Disconnect the test leads from the instrument when performing a test.
- Do not exceed the rated voltage (600V) and the category ratings of the instrument.
- Keep your fingers and hands behind the barrier during measurement.

(1) Set the Function switch to ACA position.
(2) Press the trigger to open the Current Sensor and clamp the one conductor (Dia. 33mm max.) under test.

**NOTE**
Measurement accuracy is guaranteed when the measured object is placed at the center of the Current Sensor.

4. ACV/DCV Measurement

**DANGER**
- Before starting a measurement, ensure that the Function switch is set to the appropriate position.
- Do not exceed the rated voltage (600V) and the category ratings of the instrument.
- Keep your fingers and hands behind the barrier during measurement.

(1) Set the Function switch to ACV or DCV position.
(2) Firmly connect the test leads to V/Ω and COM terminals.

**NOTE**
The LCD indicates ‘‘OL’’ when the test leads are open.

5. Resistance(Continuity)Measurement

**WARNING**
Power off the circuit under test before making measurements with this instrument.

(1) Set the Function switch to resistance or continuity position.
(2) Firmly connect the test leads to V/Ω and COM terminals.

**NOTE**
If the connection is reversed, the LCD indicates the ‘‘-’’ mark (DCV measurement).

6. Other Functions

**Data Hold**
Press the Hold key. The LCD shows ‘‘HOLD’’ mark and the reading will be held.
Press the Data Hold Key again to release the display.

**Low battery indication**
The LCD shows ‘‘BAT’’ mark when the batteries fall below the normal operating voltage.
Replace the batteries with new ones when this mark appears.

**Sleep Function**
Automatically powers off the instrument in about 10 min after the last switch or key operation. Buzzer beeps five times one minute before entering into the Sleep mode, and also one time just before entering into the mode. To exit from the Sleep mode, rotate the Function switch or press Hold key.
To disable the Sleep function, press the HOLD key and power on the instrument.

**CAUTION**
- Do not mix old and new batteries. Brand and type of the batteries to be used should be harmonized.
- Install batteries in correct polarity as indicated in the Battery Compartment.

(1) Set the Function Switch to "OFF" position.
(2) Unscrew and remove the Battery Compartment Cover on the instrument.
(3) Replace the batteries observing correct polarity. Use new two AAA 1.5V batteries.
(4) Install the Battery Compartment Cover and tighten the screw.

7. Battery Replacement

**WARNING**
- Replace the batteries when a Low Battery Voltage warning ‘‘BAT’’ mark is indicated on the LCD. Otherwise, precise measurement cannot be made. If batteries are completely exhausted, the LCD goes blank without showing ‘‘BAT’’ mark.
- Do not try to replace the batteries if the surface of the instrument is wet.
- Disconnect the test leads from the object under test and power off the instrument before opening the Battery Compartment Cover for battery replacement.

**CAUTION**
- Do not mix old and new batteries. Brand and type of the batteries to be used should be harmonized.
- Install batteries in correct polarity as indicated in the Battery Compartment.

(1) Set the Function Switch to "OFF" position.
(2) Unscrew and remove the Battery Compartment Cover on the instrument.
(3) Replace the batteries observing correct polarity. Use new two AAA 1.5V batteries.
(4) Install the Battery Compartment Cover and tighten the screw.