KEW2200 製造番号
保証期間をご購入日（年 月 日）より1年間

警告
本製品をご使用される前に、必ず本取扱説明書をよく読んで理解してください。

WARNING
Read through and understand the instructions contained in this manual before using the instrument.

アクティビ－シ－ス
■ 修理・校正に関するお問い合わせは共立電気計器株式会社サービスセンター校正グループ
■ 新製品情報／取扱説明書／ソフトウェア／単品カタログのダウンロード
■ 販売終了製品情報

この説明書に記載されている事項を断り無く変更する事がありますのでご了承ください。
本製品には保証書が添付されておりますので、保証期間中の故障については保証規定をお読みになりご利用ください。

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2. その他の機能 / Other Function

- データホールド / Data Hold
  - ホールドキーを押すと測定値が保持されます。解除は再度ホールドキーを押します。
  - Press the Data Hold Key to freeze the reading.
  - Press the Data Hold Key again to release the freezing display.

- 電池電圧低下表示 / Low battery indication
  - 2.3 ± 0.15V 以下でLCD上に "A" 表示
  - indicated "A" on LCD at 2.3 ± 0.15V or less

- スリープ機能 / Sleep Function
  - スイッチ/キー操作後約10分でスリープ状態、データホールドキーを押しながら電源オンでスリープ機能解除（LCDに "PDF" が2秒間表示）。
  - Automatically powered off in about 10min after.
  - To disable the sleep function, power the instrument on with the Data Hold Key pressed.
  - (indicated "PDF" for about 2 seconds on LCD)

3. ACA 測定 / Measurement

- 短絡抵抗 / Insulation resistance
- >100MΩ / 1000V 電気回路と外装間の絶縁抵抗。
- Storage Temperature and humidity range -20 to 60°C 85%RH or less (no condensation)

- 電源 / Power source
  DC3V: 単4形乾電池 2 コマ R03/LR03 (AAA) □ 2

- 消費電流 / Current consumption
  - < 3mA

- 運転時間 / Battery life
  - 約 350 時間 (ACA, 運転, 無負荷)
  - Approx. 350 hours (ACA, continuous, no load)

- 外形寸法 / Dimension, Weight
  - 190(L) □ 68(W) □ 20(D)mm
  - approx. 120g (電池含 / including batteries)

- アクセサリー / Accessories
  - 測定コード/Test leads Model 7107A 1set
  - 電池 / Battery R03(3A) 2pcs

4. ACV/DCV 測定 / Measurement

- 正 / Correct
- 不正 / Incorrect

5. 抵抗（導通）測定 / Resistance (Continuity) Measurement

- 600V 以上の電圧回路では、絶対に測定しないでください。
  - Never make measurement on a circuit in which voltage over 600V exists.

- 警告 / WARNING
  - 测定の前には、本体に電圧が印加されないよう被測定回路（回路）の電源を切ってください。
  - Never use the instrument on an energized circuit.

- 原則 / Principles
  - "OL" mark (DCV measurement).
  - If the connection is reversed, the LCD indicates the " " mark (DCV measurement).

- 註記 / NOTE
  - LCD 表示 "OL" で測定コードがオープン状態であります。
  - LCD indicates "OL" when the test leads are open.
ENGLISH

6. 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 may cause serious injury or equipment damage.
▲ CAUTION is reserved for conditions and actions that may cause injury or equipment 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**

**CAT.II**
- Primary electrical circuits of equipment connected to an AC electrical outlet by a power cord.
- Primary electrical circuits of the equipment connected directly to the distribution panel, and feeders from the distribution panel to outlets.
- The circuit from the service drop to the service entrance, and to the power meter and primary over current protection device (distribution panel).

**Current measurement section**
- This instrument is designed for CAT.III 600V and Voltage measurement section is for CAT.III 300V / CAT.II 600V respectively.
- Test leads 7107A with the Cap is designed for CAT.IV 600V / CAT.III 1000V and without the Cap is for CAT.II 1000V.

▲ DANGER
- Never make measurement on a circuit in which voltage over AC/DC600V exists.
- Do not attempt to measure in the presence of flammable gases. Otherwise, the use of the instrument may cause sparking, which can lead to an explosion.
- Never attempt to use the instrument if its surface or your hand is wet.
- Do not exceed the maximum allowable input of any measuring range.
- Never open the Battery cover during a measurement.
- To avoid electrical shock by touching the equipment under test or its surroundings, be sure to wear insulated protective gear.
- Never measure current while the test leads are inserted into the input terminals.
- Barriers on the instrument body and the test leads provide protection to keep your fingers and hands from touching an object under test. Keep your fingers and hands behind the barriers during measurement.

▲ WARNING
- Never attempt to make measurement if any abnormal conditions, such as broken case and exposed metal parts are found on the instrument or test leads.
- Verify proper operation on a known source before use or taking action as a result of the indication of the instrument.
- Firmly attach the Caps to the test leads when performing measurements at CAT.III or higher test environment.
- When KEW2200 and the test leads are combined and used together, whichever is lower category & voltage to earth either of them belong to is applied.
- Do not rotate the Function Switch while the test leads are being connected.
- Do not install substitute parts or make any modification to the instrument. For repair or re-calibration, return the instrument to your local distributor from where it was purchased.

▲ WARNING
- Use of this instrument is limited to domestic, commercial and light industry applications. If equipments generating strong electromagnetic interference or strong magnetic fields due to large currents exist nearby, malfunctions of the instrument may be caused.
- Set the Function Switch to an appropriate position before starting measurement.
- Firmly insert the test leads.
- The LCD shows some readings at the ACV and DCV ranges even while the test leads are open. And, it may show some digits instead of 0 when short-circuiting the test leads. However, these phenomena don't affect measurement results.
- This instrument isn't dust & water proofed. Keep away from dust and water.
- Be sure to power off the instrument after use. When the instrument will not be in use for a long period, place it in storage after removing the batteries.
- Do not expose the instrument to the direct sun, 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.

7. Battery Replacement

▲ WARNING
- Replace the batteries when a Low Battery Voltage warning " ▲ " mark(=2.3±0.15V) is indicated on the LCD. Otherwise, precise measurement cannot be made. Note that when the battery is completely exhausted, the LCD goes blank without showing " ▲ " 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.
- 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 bottom of the instrument.
3. Replace the batteries observing correct polarity.
4. Install the Battery Compartment and tighten the screws.

**DISTRIBUTOR**

Kyoritsu reserves the rights to change specifications or designs described in this manual without notice and without obligations.

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