

# INSTRUCTION MANUAL



## VOLTAGE DETECTOR VOLT STICK

**KEW 5711**



### 1. Safety Warnings


- This instrument has been designed, manufactured and tested according to the following safety standard and delivered in the best condition after passing quality control tests.


- IEC61010-1  
Measurement category CAT IV 600V/ CAT III 1000V  
Pollution degree 2


This instruction manual contains warnings and safety rules which must be observed by the user to ensure safe operation of the instrument and to maintain it in safe condition. Therefore, read through these operating instructions before starting to use the instrument.

Keep the manual at hand to enable quick reference whenever necessary.

- 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 this 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.

### **DANGER**

- To avoid possible electrical shock hazard, do not use the instrument on circuits above 1000V.
- Always perform preliminary check before starting to use the instrument.
- Keep your fingers behind the barrier during use.
- Wear insulated protective gears when potential shock hazard exists when touching with the object under test or surroundings.
- Never attempt to use the instrument if its surface or your hand is wet.
- Do not attempt to use in the presence of flammable gasses. Otherwise, the use of the instrument may cause sparking, which can lead to an explosion.

### **WARNING**




- Never attempt to make any measurements if any abnormal conditions such as broken case and exposed metal parts are noted.
- Do not install substitute parts or make any modifications to the instrument. Return the instrument to your local KYORITSU distributor for repair or re-calibration.

- The instrument may be unable to sense the presence of voltage
  - : if the point of detection can be influenced by other voltage generating devices,
  - : if the instrument is improperly held or placed, or
  - : if shielded wire/ cable is tested.
- Do not try to replace the batteries if the surface of the instrument is wet.

### **CAUTION**

- Do not use in dusty or wet conditions.
- 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 direct sunlight, high temperature and humidity or dew.
- Use a lightly damp cloth with neutral detergent or water for cleaning the instrument. Do not use abrasives or solvents.

### Symbols

	User must refer to the manual
	Instrument with double or reinforced insulation
	Crossed-out wheel bin symbol (according to WEEE Directive: 2002/96/EC) indicating that this electrical product may not be treated as household waste, but that it must be collected and treated separately.

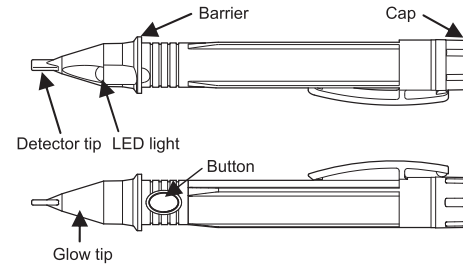
### 2. Features

- Senses AC voltage through insulation
- Buzzer sounds and tip glows upon ac voltage detection
- Powerful flashlight
- Dual range (Hi/ Lo) sensitivity
- Ready to use without power-on
- Designed to meet IEC61010-1

### 3. Specifications

Model name	KEW 5711
Operating voltage	AC 90-1000 V (Lo sensitivity) AC 20-1000 V (Hi sensitivity)
Frequency range	50/ 60Hz
Operating temp. range	-10 to 50°C
Storage temp. range	-20 to 60°C
Use environment	Altitude 2000m or less, in-door use
Safety standard	IEC 61010-1 CAT IV 600V/ CAT III 1000V Pollution degree 2
Withstand voltage	AC6720V/ 5 sec. (between detector tip and enclosure)
Power source	LR03/ R03 size AAA battery x 2pcs
Battery life	Approx. 10 hours (with LR03 batteries)
Low battery warning	Glow tip quickly flashes in red five times
Dimension	153(L) x φ 20mm
Weight	Approx 40g (incl. batteries)
Accessories	Instruction manual, batteries

### 4. Instrument Layout



Glow tip (Red LED)	Status
OFF (not light up)	Lo sensitivity Stand-by
Blink (two seconds)	Hi sensitivity
ON (light up)	Voltage is detected.
Quickly blink five times	Battery voltage is low.
Blink with SOS beeps	Abnormality is detected within the instrument.

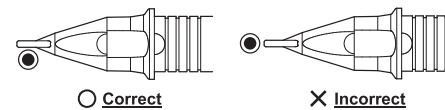
### 5. Preliminary Check

Before starting to use the instrument, perform the following preliminary check for your safety.

- Check for any abnormalities or damages on the instrument.
- Press button to confirm LED light is turned on.
- Test on a known power supply to ensure the glow tip illuminates in red and buzzer beeps.
- The red light flashes quickly five times if the batteries need changing. Replace the old batteries with new ones to perform further use.
- Self-Function test  
This instrument performs self-function test when button is pressed. When abnormality is found at the test, it gives 3 short beeps, 3 long beeps, 3 short beeps (Morse code for SOS); the abnormality may be either temporary or permanent. Such an alert may be given when pressing the button while the instrument is sensing voltage. Stop using the instrument if buzzer produces SOS Morse code sound and verify proper operation on a known power supply.

### 6. Operating Instructions

- Hold the instrument firmly, and place the detector tip to a testing point such as energized metal part or cord jacket. In this case, keep the tip of the instrument parallel to the testing point. When voltage is detected, the tip will illuminate in red and buzzer sounds.



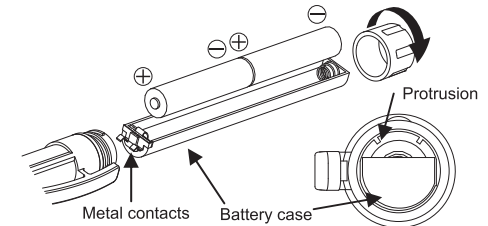
- Press the button to turn on the LED light. Another press of the button turns off the light. After about 30 sec. of non-detection, the light automatically turns itself off.

- Press the button 1 sec. or longer to switch sensitivities (Hi and Lo). The instrument will indicate high sensitivity mode with a short flash of red light every 2 sec. Another long press of the button or about 45 sec. of non-detection automatically switches back to Lo sensitivity. Lo sensitivity mode is recommended for testing polarity of outlet.

### 7. Battery Replacement

#### **CAUTION**

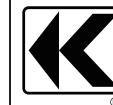
- Do not mix old and new batteries.
- Insert batteries in correct polarity according to the engraving on the case.
- Brand and type of batteries to be used should be harmonized.
- Handle the case gently so as not to damage the metal contacts at the tip.



- Loosen the bottom cap.
- Remove the cap, and then pull out the battery case with holding down batteries.
- Replace batteries with new ones. (Size AAA, LR03/ R03 x 2)
- Pay attention to the position of protrusion and slide the case back. Then put the cap back.
- Do the preliminary check to confirm new batteries are correctly inserted. If the instrument doesn't work, repeat the procedures for battery replacement and insert batteries correctly.

### DISTRIBUTOR

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