



Quality and reliability is our tradition

**KYORITSU**

# VOLTAGE TESTER KEW 1710

**NEW**

Also available non LCD model  
KEW 1700. AC and DC voltage  
test up to 690V with LED.



ISO 9001:2000, BS EN 9001  
APPROVED BY BVQI

- Designed to meet international safety standards IEC 61243-3 / IEC 61010-1 Measurement Category (CAT.) IV 600V
- Self-Diagnostic test
- AC and DC voltage tests up to 690V with LEDs and LCD
- Polarity indication
- Single-pole phase test
- Phase rotation test
- Double molding gives comfortable grip
- Continuity test
- Auto-power ON / OFF
- Pen light for illuminating measurement points
- Variable distance in socket, 16.7mm or 19.0mm
- Variable probe Tips, 1.6mm or 4mm $\phi$
- Probe cover protects user and probe Tips
- IP65 (IEC 60529)



### Probe Protection Cover

Unscrew      Tighten



### 4mm Tips Replacement

- How to fixing 4mm Tips on L1 probe - and L2 probe +.

(Actual Size)



## Specifications

<b>Voltage Test</b>	
Voltage Range	12~690V AC/DC
<b>LED</b>	
Nominal Voltage	12/24/50/120/230/400/690V AC (45~400Hz), DC (±)
Tolerance (Threshold Voltage)	Light on at more than : 7±3V (12V LED) 18±3V (24V LED) 37.5±4V (50V LED) 75%±5% of nominal voltage (120/230/400/690V LED)
Response Time	< 0.5s at 100% of each nominal voltage
<b>LCD</b>	
Range / Resolution (Auto-range)	300V (7.0~299.9V) / 0.1V 690V (270~759) / 1V
Accuracy (23±5°C)	±1.5V (7~100V) ±1%±5dgt (100~690V) AC (45~400Hz), DC (±)
Overrange Indication	"OL"
Response Time	< 2s at 90% of each voltage
Peak Current	Is<3.5mA (at 690V)
Measurement Duty	30s ON (operation time) 240s OFF (recovery time)
Internal Battery Consumption	Approx. 33mA (battery 3V, measuring 690V AC)
Battery Life	Approx. 2500 operations (30s ON/240s OFF duty)
<b>Single-Pole Phase Test</b>	
Voltage Range	100~690V AC (45~100Hz) 180~690V AC (100~400Hz)
<b>Phase Rotation Test</b>	
System	Three-phase 4-wire system 200~690V phase-to-phase (100~400V earth-to-phase) AC 50/60Hz
Phase Range	120±5 degree
<b>Continuity Test</b>	
Detection Range	0~400kΩ+50%
Test Current	Approx. 1.5μA (battery 3V, 0Ω)
Internal Battery Consumption	Approx. 30mA (battery 3V, 0Ω)
<b>Reference Condition</b>	
Battery	3V (IEC LR03 1.5V×2)
Temperature	-10~55°C operation -20~60°C storage No condensation
Humidity	Max 85% RH
Used location	Altitude up to 2000m
<b>Safety</b>	
Standard Category	IEC61010-1, CAT.Ⅲ /IV 600V IEC61243-3, CAT.Ⅱ 690V
Pollution degree	2
IP Rating	IP65 (IEC60529)
<b>Size</b>	
Dimensions	241.5 (L) × 68.5 (W) × 28.5 (D) mm
Weight	230g (including batteries)

## Single-pole Phase Test

- Live circuit LED lights up and buzzer sounds when a voltage of approx. 100V AC or more exists in the object under test.



## Pen light for illuminating measurement points

- Equipped pen light illuminates the measurement point dimly lit area.

Pressing the pen light switch turns on the light.



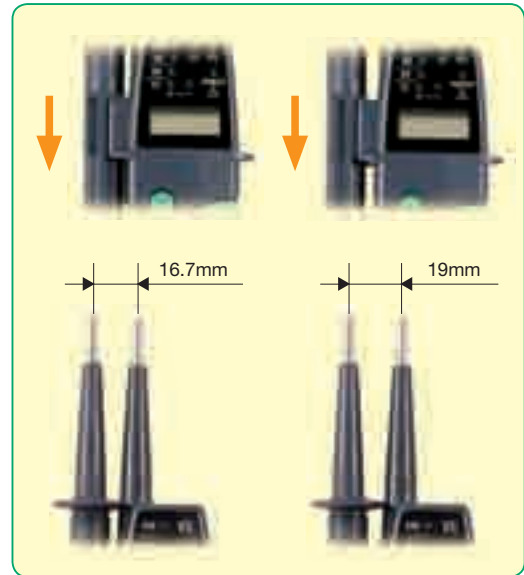
## Voltage Test (Double-pole Test)

- Connect both probes to the system under test.
- The voltage is indicated by LEDs and LCD. Buzzer sounds and Live circuit LED lights up when a threshold voltage of 50V is exceeded.
- Voltage polarity is indicated in following manner.



## Distance Between Probes

- Distance between probes is selectable, either 16.7mm or 19.0mm, by changing probes (L1 and L2) position manually.



## Safety Warnings :

Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

■ For inquires or orders :



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