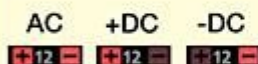


- AC and DC voltage tests up to 690V with LED
- Comply with the latest standards IEC 61243 and IEC 61010
- Novel design  
Large and bright LEDs: Values are visible in the dark place  
Ergonomic design fits in the hand
- Two functions are available in one model  
"Measurement without battery" and "Self Test (all LED on)"
- Test leads withstand harsh environments at low temperature
- Penlight (white LED)
- Auto-power ON/OFF
- Audible indication
- Variable test tips,  $\varnothing 2\text{mm}$  or  $\varnothing 4\text{mm}$
- Probe protection cover can store the attachment of caps
- IP65 (IEC 60529)



## Voltage Test (Double-pole Test)

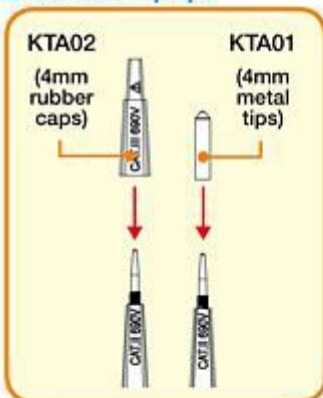
- The voltage is indicated by LEDs.  
Buzzer sounds and Live circuit LED lights up when a threshold voltage of 50V is exceeded.
- Voltage polarity is indicated in following manner.



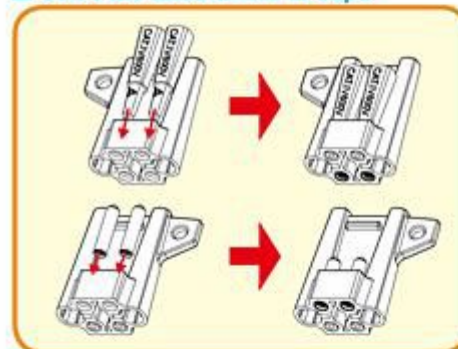
## Single-pole Phase Test



## Variable top tips



## Store the attachment of caps



## Probe Protection Cover



## 4mm Tips Replacement

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



<b>Voltage Test</b>	
Voltage Range	12~690V AC/DC
Nominal Voltage	12/24/50/120/230/400/690V AC (16~400Hz), DC ( $\pm$ )
Tolerance (Threshold Voltage)	Light on at more than: 7 $\pm$ 3V (12V LED) 18 $\pm$ 3V (24V LED) 37.5 $\pm$ 4V (50V LED) 75% $\pm$ 5% of nominal voltage (120/230/400/690V LED)
Response Time	<0.6s at 100% of each nominal voltage
Peak Current	Is<3.5mA (at 690V)
Measurement Duty	30s ON (operation time) 240s OFF (recovery time)
<b>Single-pole Phase Test</b>	
Voltage Range	100~690V AC (50/60Hz)
<b>Phase Rotation Test</b>	
System	Three-phase 4-wire system 200~690V phase-to-phase AC (50/60Hz)
Phase Range	120 $\pm$ 5 degree
<b>Continuity Test</b>	
Detection Range	0~400k $\Omega$ +50%
Test Current	Approx. 1.5 $\mu$ A (battery 3V, 0 $\Omega$ )
<b>General</b>	
Operating temperature and humidity ranges	-15~55 $^{\circ}$ C, max 85% RH (No Condensation)
Storage temperature and humidity ranges	-20~70 $^{\circ}$ C, max 85% RH (No Condensation)
Applicable Standards	IEC 61243-3, IEC 61010-1, IEC 61010-031, IEC 61557-7 CAT.III 690V / CAT.IV 600V Pollution degree 2
IP Rating	IP65 (IEC 60529)
Power Source	LR03 (AAA) 1.5V $\times$ 2
Dimensions	246(L) $\times$ 64(W) $\times$ 26(D) mm
Weight	190g (including batteries)
Accessories	LR03 (AAA) 1.5V $\times$ 2, KTA01 (4mm metal tips [2pcs/set]), KTA02 (4mm rubber caps [2pcs/set]), Instruction manual

