



- AC and DC voltage tests up to 690V with LEDs and LCD
- 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,  $\phi 2\text{mm}$  or  $\phi 4\text{mm}$
- Probe protection cover can store the attachment of caps
- IP65 (IEC 60529)




CAT IV  
600V

### Voltage Test (Double-pole Test)

### Single-pole Phase Test

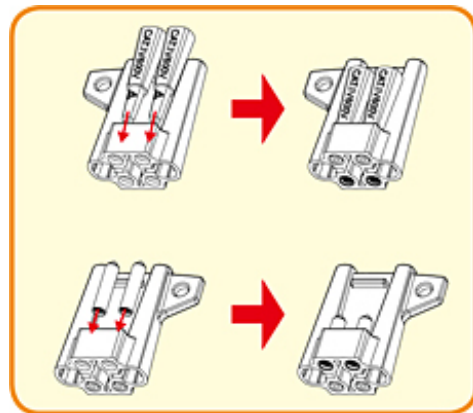
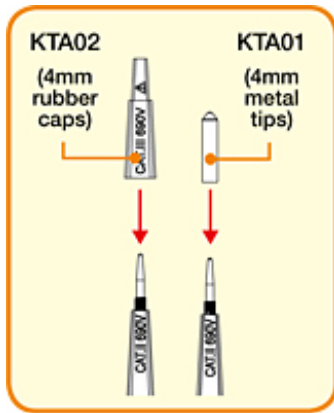
- The voltage is indicated by LEDs.
- Buzzer sounds and Live circuit LED lights up when a threshold voltage of 50V is exceeded.
- Voltage polarity is indicated in following manner.

AC	+DC	-DC




### 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+.



### Voltage Test

**Voltage Range** 12 - 690V AC/DC

**Nominal Voltage** 12/24/50/120/230/400/690V  
AC (16 - 400Hz), DC ( $\pm$ )

		Light on at more than: 7±3V (12V LED) 18±3V (24V LED) 37.5±4V (50V LED)
	<b>Tolerance (Threshold Voltage)</b>	75%±5% of nominal voltage (120/230/400/690V LED)
<b>LED</b>	<b>Response Time</b>	<0.6s at 100% of each nominal voltage
	<b>Range/Resolution (Auto-range)</b>	300V AC/DC (6.0 - 299.9)/0.1V 690V AC (270 - 759)/1V 690V DC (270 - 710)/1V
	<b>Accuracy (23±5°C)</b>	±1.5V (7 - 100V) ±1%±5dgt (100 - 690V) AC (16 - 400Hz), DC(±)
	<b>Overrange Indication</b>	"OL"
<b>LCD</b>	<b>Response Time</b>	Approx. 1s at 90% - 110% of each voltage
	<b>Peak Current</b>	I <sub>s</sub> <3.5mA (at 690V)
	<b>Measurement Duty</b>	30s ON (operation time) 240s OFF (recovery time)
<b>Single-Pole Phase Test</b>		
	<b>Voltage Range</b>	100 - 690V AC (50/60Hz)
<b>Phase Rotation Test</b>		
	<b>System</b>	Three-phase 4-wire system 200 - 690V phase-to-phase AC (50/60Hz)
	<b>Phase Range</b>	120±5 degree
<b>Continuity Test</b>		
	<b>Detection Range</b>	0 - 400kΩ+50%
	<b>Test Current</b>	Approx. 1.5μA (battery 3V, 0Ω)
	<b>Applicable standards</b>	IEC 61243-3, IEC 61010-1, IEC 61010-031, IEC 61557-7 CAT III 690V / CAT IV 600V Pollution degree 2
	<b>IP Rating</b>	IP65 (IEC 60529)
<b>Operating temperature &amp; humidity range</b>		-15 - 55°C, max 85% RH (No Condensation)

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<b>Storage temperature &amp; humidity range</b>	-20 - 60°C, max 85% RH (No Condensation)
<b>Power source</b>	LR03 (AAA) 1.5V×2
<b>Dimensions</b>	246(L)×64(W)×26(D) mm
<b>Weight</b>	190g (including batteries)
<b>Included Accessories</b>	LR03 (AAA) 1.5V×2, KTA01 (4mm metal tips [2pcs/set]), KTA02 (4mm rubber caps [2pcs/set]), Instruction manual

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