

Voltage Testers

KT 171



- 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, $\varnothing 2\text{mm}$ 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.

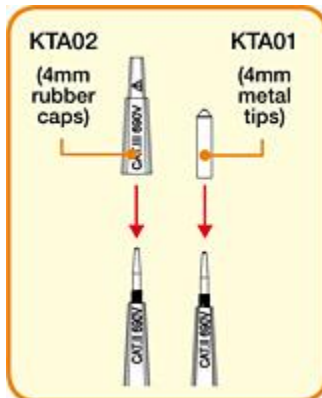
AC +DC -DC



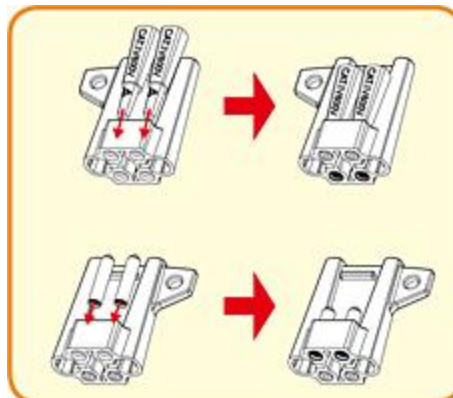

Single-pole Phase Test



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+.



Voltage Test

Voltage Range

12 - 690V AC/DC

LED	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
LCD	Range/Resolution (Auto-range)	300V AC/DC (6.0 - 299.9)/0.1V 690V AC (270 - 759)/1V 690V DC (270 - 710)/1V
	Accuracy (23 \pm 5°C)	\pm 1.5V (7 - 100V) \pm 1% \pm 5dgt (100 - 690V) AC (16 - 400Hz), DC(\pm)
	Overrange Indication	"OL"
	Response Time	Approx. 1s at 90% - 100% of each voltage
Peak Current		Is<3.5mA (at 690V)
Measurement Duty		30s ON (operation time) 240s OFF (recovery time)
Single-Pole Phase Test		
Voltage Range		100 - 690V AC (50/60Hz)
Phase Rotation Test		
System		Three-phase 4-wire system 200 - 690V phase-to-phase AC (50/60Hz)
Phase Range		120 \pm 5 degree
Continuity Test		
Detection Range		0 - 400k Ω +50%
Test Current		Approx. 1.5 μ A (battery 3V, 0 Ω)
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)	
Operating temperature & humidity range	-15 - 55°C, max 85% RH (No Condensation)	
Storage temperature & humidity range	-20 - 60°C, max 85% RH (No Condensation)	
Power source	LR03 (AAA) 1.5V \times 2	
Dimensions	246(L) \times 64(W) \times 26(D) mm	
Weight	190g (including batteries)	
Included Accessories	LR03 (AAA) 1.5V \times 2, KTA01 (4mm metal tips [2pcs/set]), KTA02 (4mm rubber caps [2pcs/set]), Instruction manual	