

KT 170/171

VOLTAGE TESTERS



Probe Protection Cover



photo : KT170

photo : KT171

- 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)

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.

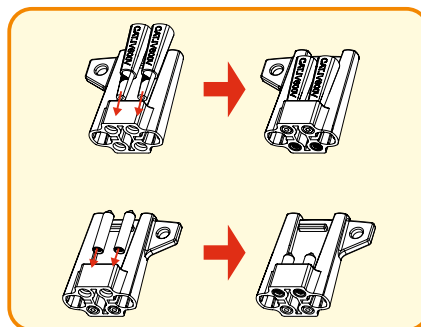
AC +DC -DC



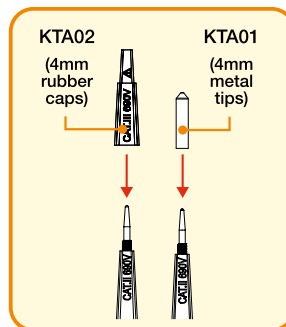
Bright LEDs and Penlight



Store the attachment of caps



Variable top tips



Single-pole Phase Test



KT170/171	
Voltage test	
Voltage range	12 to 690V AC/DC
LED	
Nominal voltage	12/24/50/120/230/400/690V
Tolerance (Threshold voltage)	AC(16 to 400Hz), DC($\pm$) 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 (KT171 only)	
Range / Resolution (Auto-range)	300V (6.0 to 299.9) /0.1V AC/DC 690V (270 to 759) /1V AC 690V (270 to 710) /1V DC
Accuracy (23 $\pm$ 5 $^{\circ}$ C)	$\pm$ 1.5V (7 to 100V) $\pm$ 1% $\pm$ 5dgt (100 to 690V) AC(16 to 400Hz), DC($\pm$)
Over limit indication	"OL"
Response time	Approx. 1s at 90 to 110% 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 to 690V AC (50/60Hz)
Phase rotation test	
System	Three-phase 4-wire system 200 to 690V phase-to-phase AC (50/60Hz)
Phase range	120 $\pm$ 5 degree
Continuity test	
Detection range	0 to 400k Ω + 50%
Test current	Approx. 1.5 μ A (battery 3V, 0 Ω)
Operating temperature and humidity range	-15 to 55 $^{\circ}$ C, relative humidity 85% or less (no condensation)
Storage temperature and humidity range	-20 to 70 $^{\circ}$ C, relative humidity 85% or less (no condensation)(KT170) -20 to 60 $^{\circ}$ C, relative humidity 85% or less (no condensation)(KT171)
Applicable standards	IEC 61243-3, IEC 61010-1, IEC 61557-7 CAT IV 600V / CAT III 690V Pollution degree 2, IEC 60529 (IP65)
Power source	LR03(AAA) (1.5V) $\times$ 2
Dimension	246(L) $\times$ 64(W) $\times$ 26(D)mm
Weight	Approx. 190g (including batteries)
Accessories	Batteries, KTA01(4mm metal tips[2pcs/set]) KTA02(4mm rubber caps[2pcs/set]), Instruction manual

KT170AU is available for Australia and New Zealand market.

