



KYORITSU · VOLTAGE TESTERS & DETECTORS · DATASHEET

Kyoritsu KT 171 Voltage Tester

Model KT 171 · Voltage Tester



Two-pole voltage tester to IEC 61243-3 with LED steps and an LCD reading for 12–690 V AC/DC, plus phase, rotation and continuity tests.

Key features

- Complies with IEC 61243-3 and IEC 61010-1
- LED steps plus auto-ranging LCD voltage reading
- Indication without battery, plus self test
- Single-pole phase, phase rotation and continuity tests
- White LED penlight, audible indication, auto power on/off
- Interchangeable 2 mm / 4 mm test tips
- IP65; CAT IV 600 V / CAT III 690 V

Price and availability

Ask Industrial Supply Syndicate for the current price, stock and a quotation with GST and freight. Call +91 8961089611 or WhatsApp +91 89610 89611.

Specifications

Voltage Test (LED)

Voltage range	12 to 690 V AC/DC
Nominal voltage	12 / 24 / 50 / 120 / 230 / 400 / 690 V AC (16 to 400 Hz), DC ($\pm$)
Threshold voltage	Lights at more than 7 $\pm$ 3 V (12 V LED), 18 $\pm$ 3 V (24 V LED), 37.5 $\pm$ 4 V (50 V LED), 75% $\pm$ 5% of nominal (120/230/400/690 V LEDs)
Response time	< 0.6 s at 100% of each nominal voltage

Voltage Test (LCD)

Range / resolution (auto-range)	300 V AC/DC (6.0 to 299.9) / 0.1 V; 690 V AC (270 to 759) / 1 V; 690 V DC (270 to 710) / 1 V
Accuracy (23 $\pm$ 5 $^{\circ}$ C)	$\pm$ 1.5 V (7 to 100 V); $\pm$ 1% $\pm$ 5 dgt (100 to 690 V); AC (16 to 400 Hz), DC ($\pm$)
Overrange indication	"OL"
Response time	Approx. 1 s at 90 to 110% of each voltage
Peak current	I _s < 3.5 mA (at 690 V)
Measurement duty	30 s on / 240 s off

Phase & Continuity

Single-pole phase test	100 to 690 V AC (50/60 Hz)
Phase rotation test	Three-phase 4-wire system, 200 to 690 V phase-to-phase AC (50/60 Hz); phase range 120 $\pm$ 5 $^{\circ}$
Continuity test	0 to 400 k Ω +50%; test current approx. 1.5 μ A (battery 3 V, 0 Ω)



Safety

Measurement category IEC 61010-1 CAT IV 600 V / CAT III 690 V, pollution degree 2

Standards IEC 61243-3, IEC 61557-7, IEC 60529 (IP65)

General

Operating temperature and humidity -15 to 55 °C, RH 85% or less (no condensation)

Storage temperature and humidity -20 to 60 °C, RH 85% or less (no condensation)

Power source LR03 (AAA) 1.5 V × 2

Dimensions 246 (L) × 64 (W) × 26 (D) mm

Weight Approx. 190 g (including batteries)

What's in the box

- 4 mm metal tips (2 pcs/set) (KTA01)
- 4 mm rubber caps (2 pcs/set) (KTA02)
- Battery (LR03 (AAA)) × 2
- Instruction manual

Typical applications

- **Electrical Maintenance** – Voltage test 12–690 V AC/DC with LED steps and LCD value to IEC 61243-3.
- **Phase Sequence Testing** – Checks phase rotation on three-phase 4-wire systems, 200–690 V.
- **Field Electrical Testing** – IP65, 190 g, LED indication works even without batteries.

Official Kyoritsu documents

Kyoritsu Shortform Catalogue 2026 (English) – includes the KT 171 PDF · www.kew-ltd.co.jp

KT 171 instruction manual (English) PDF · www.kew-ltd.co.jp

Order or ask for a quotation

Industrial Supply Syndicate supplies the Kyoritsu KT 171 across India with a GST invoice. Tell us the quantity and delivery location; we reply with a quotation or proforma invoice including freight.

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