



KYORITSU · VOLTAGE TESTERS & DETECTORS · DATASHEET

Kyoritsu KT 170 Voltage Tester

Model KT 170 · Voltage Tester



Two-pole LED voltage tester to IEC 61243-3 for 12–690 V AC/DC, with single-pole phase, phase rotation and continuity tests, rated CAT IV 600 V.

Key features

- Complies with IEC 61243-3 and IEC 61010-1
- LED voltage indication 12 to 690 V AC/DC
- Indication without battery, plus self test (all LEDs on)
- 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

Voltage range	12 to 690 V AC/DC
Nominal voltage (LED)	12 / 24 / 50 / 120 / 230 / 400 / 690 V AC (16 to 400 Hz), DC ($\pm$)
Threshold voltage	Lights at more than 7 ± 3 V (12 V LED), 18 ± 3 V (24 V LED), 37.5 ± 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
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 70 °C, RH 85% or less (no condensation)



General (continued)

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** – Two-pole voltage presence test 12–690 V AC/DC 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, works for voltage indication even without batteries.

Official Kyoritsu documents

[Kyoritsu Shortform Catalogue 2026 \(English\) – includes the KT 170](#) PDF · www.kew-ltd.co.jp

[KT 170 instruction manual \(English\)](#) PDF · www.kew-ltd.co.jp

Order or ask for a quotation

Industrial Supply Syndicate supplies the Kyoritsu KT 170 across India with a GST invoice. Tell us the quantity and delivery location; we reply with a quotation or proforma invoice including freight.

Phone +91 8961089611
WhatsApp +91 89610 89611
Email info@kyoritsumeters.in
Online kyoritsumeters.in/product/kyoritsu-kt-170-voltage-tester/
Address 54, Ezra Street, Kolkata, West Bengal 700000, India
GSTIN 19ACDPC1843J1ZR



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