



KYORITSU · INSTALLATION TESTERS · DATASHEET

Kyoritsu KEW 6516 Multi Function Installation Tester

Model KEW 6516 · Multi Function Installation Tester



Multi function installation tester covering insulation, loop/PSC/PFC, RCD (AC, A, F, B, EV), earth, continuity, SPD and phase rotation tests.

Key features

- 3.5-inch colour dot-matrix LCD with on-screen connection help
- Anti-Trip Technology for no-trip L-PE loop testing (2- and 3-wire)
- 25 A high test current loop range: 2.000 Ω with 0.001 Ω resolution; Zs limit comparison
- RCD types AC, A, F, B (general and selective), EV and variable; x1/2, x1, x5, ramp, auto and Uc
- Insulation test at 100, 250, 500 and 1000 V with automatic discharge
- Earth resistance (2- and 3-wire), 200 mA / 15 mA continuity, phase rotation, SPD and PAT functions
- IEC 61010-1 CAT IV 300 V / CAT III 600 V; IEC 61557-1, 2, 3, 4, 5, 6, 7, 10

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

Insulation Resistance

Test voltage	100 V / 250 V / 500 V / 1000 V
Measuring ranges	100 V: 2.000 / 20.00 / 200.0 M Ω ; 250 V and 500 V: 20.00 / 200.0 / 1000 M Ω ; 1000 V: 20.00 / 200.0 / 2000 M Ω (auto-ranging)
Accuracy	100 V: $\pm 2\%$ rdg ± 6 dgt (2.000 / 20.00 M Ω), $\pm 5\%$ rdg ± 6 dgt (200.0 M Ω); 250 V / 500 V / 1000 V: $\pm 2\%$ rdg ± 6 dgt (20.00 / 200.0 M Ω), $\pm 5\%$ rdg ± 6 dgt (1000 M Ω at 250/500 V, 2000 M Ω at 1000 V)

Rated current	1.0 to 1.2 mA at 0.1 M Ω (100 V), 0.25 M Ω (250 V), 0.5 M Ω (500 V), 1 M Ω (1000 V)
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Output short-circuit current	1.5 mA max
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SPD (Varistor)

Test voltage	Max. 1000 V
Measuring range	0 to 1049 V (goes up by 1 V)
Accuracy	$\pm 5\%$ rdg ± 5 dgt

Loop Impedance

LOOP ATT L-PE / L-N (3-wire)	100 to 260 V (50/60 Hz); 20.00 / 200.0 / 2000 Ω (auto-ranging); $\pm 3\%$ rdg ± 6 dgt; test current L-N 6 A / 60 ms, N-PE 10 mA
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Loop Impedance (continued)	
LOOP ATT L-PE (2-wire)	48 to 260 V (50/60 Hz); $\pm 3\%$ rdg ± 10 dgt; test current L-PE 15 mA
LOOP HIGH L-PE (0.01 Ω resolution)	48 to 260 V (50/60 Hz); 20.00 / 200.0 / 2000 Ω (auto-ranging); $\pm 3\%$ rdg ± 4 dgt; test current 20 Ω : 6 A / 20 ms, 200 Ω : 0.5 A / 20 ms, 2000 Ω : 15 mA / 500 ms
LOOP HIGH L-PE (0.001 Ω resolution, 25 A)	100 to 260 V (50/60 Hz); 2.000 Ω ; $\pm 3\%$ rdg ± 25 m Ω ; test current 25 A / 20 ms
L-N / L-L	48 to 500 V (50/60 Hz); 20.00 Ω ; $\pm 3\%$ rdg ± 4 dgt; test current 6 A / 20 ms
Test current basis	Nominal test current at 0 Ω external loop, magnitude / duration at 230 V
PSC / PFC	
Ranges	LOOP ATT: 2000 A / 20 kA (L-N PSC / L-PE PFC); LOOP HIGH 0.01 Ω : 2000 A / 20 kA (PFC); LOOP HIGH 0.001 Ω : 2000 A / 50 kA (PFC); L-N / L-L: 2000 A / 20 kA (PSC)
Accuracy	Derived from measured loop impedance specification and measured voltage specification
RCD	
Rated voltage	100 to 260 V (50/60 Hz)
Functions	x1/2, x1, x5, Ramp, Auto, Uc
Current settings	6 / 10 / 30 / 100 / 300 / 500 / 1000 mA / variable
Type AC (G/S)	x1/2, x1, Uc: 10 / 30 / 100 / 300 / 500 / 1000 mA (G), 10 / 30 / 100 / 300 / 500 mA (S); x5: 10 / 30 / 100 mA; Ramp: 10 / 30 / 100 / 300 / 500 mA
Types A and F (G/S)	x1/2, x1, Uc: 10 / 30 / 100 / 300 / 500 mA; x5: 10 / 30 / 100 mA; Ramp: 10 / 30 / 100 / 300 / 500 mA
Type B (G/S)	x1/2, x1, Uc: 10 / 30 / 100 / 300 mA; x5: 10 / 30 / 100 mA; Ramp: 10 / 30 / 100 / 300 mA
Type EV	6 mA (x1 only); Ramp: 6 mA
Trip current accuracy	AC: x1/2 -8 to -2%, x1 and x5 +2 to +8%, Ramp -4 to +4%; A / F / B: x1/2 -10 to 0%, x1 and x5 0 to +10%, Ramp -10 to +10%; EV: x1 0 to +10%, Ramp -10 to +10%
Trip time accuracy	x1/2: 2000 ms (G/S) $\pm 1\%$ rdg ± 2 ms; x1: 550 ms (G) / 1000 ms (S) $\pm 1\%$ rdg ± 2 ms; x5: 410 ms (G/S) $\pm 1\%$ rdg ± 2 ms; EV x1: 10.5 s $\pm 1\%$ ± 2 ms
Continuity	
Range	20.00 / 200.0 / 2000 Ω (auto-ranging)
Open-circuit voltage (DC)	7 to 14 V
Measuring current	200 mA or more (2 Ω or less); 15 mA ± 3 mA (short-circuit)
Accuracy	$\pm 2\%$ rdg ± 8 dgt
Voltage & Frequency	
Range	300.0 / 600 V (auto-ranging); measuring range 2 to 600 V
Frequency range	45 to 65 Hz
Accuracy	Voltage $\pm 2\%$ rdg ± 4 dgt; frequency $\pm 0.5\%$ rdg ± 2 dgt
Phase Rotation	
Rated voltage and indication	48 to 600 V (45 to 65 Hz); correct sequence "1.2.3", reversed sequence "3.2.1"



Earth Resistance

Range	20.00 / 200.0 / 2000 Ω (auto-ranging)
Accuracy	$\pm 2\%$ rdg $\pm 0.08 \Omega$ (20.00 Ω); $\pm 2\%$ rdg ± 3 dgt (200.0 / 2000 Ω)
Safety	
Measurement category	IEC 61010-1 CAT IV 300 V / CAT III 600 V, pollution degree 2
Standards	IEC 61010-2-034, IEC 61557-1, 2, 3, 4, 5, 6, 7, 10, IEC 60529 (IP40), IEC 61326 (EMC)
General	
Communication interface	USB
Power source	LR6 (AA) (1.5 V) $\times$ 8
Dimensions	136 (L) $\times$ 235 (W) $\times$ 114 (D) mm
Weight	1350 g (including batteries)

What's in the box

- Mains test lead (MODEL 7187A, 7218A, 7221A or 7222A depending on plug type)
- Test leads with remote control switch (7281)
- Distribution board test lead (7246)
- Earth resistance test leads (7228A)
- Auxiliary earth spikes (2 spikes / 1 set) (8041)
- Soft case (9084)
- Carrying case (9142)
- Shoulder strap (9151)
- Shoulder pad (9199)
- USB adapter (8212-USB)
- Battery (AA) (LR6) $\times$ 8
- Instruction manual
- Calibration certificate

Typical applications

- **RCD Testing** – Tests RCD types AC, A, F, B, EV and variable with x1/2, x1, x5, ramp, auto and Uc.
- **Insulation Testing** – Insulation tests at 100, 250, 500 and 1000 V up to 2000 M Ω with auto discharge.
- **Earth Resistance Testing** – 2- and 3-wire earth resistance up to 2000 Ω ; leads and auxiliary spikes included.

Official Kyoritsu documents

[KEW 6516 product catalogue \(English\)](#) PDF · www.kew-ltd.co.jp

[KEW 6516 instruction manual \(English\)](#) PDF · www.kew-ltd.co.jp



Order or ask for a quotation

Industrial Supply Syndicate supplies the Kyoritsu KEW 6516 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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