



KYORITSU · INSTALLATION TESTERS · DATASHEET

Kyoritsu KEW 4140 Loop / PFC / PSC Tester

Model KEW 4140 · Loop / PFC / PSC Tester



Loop / PFC / PSC tester with anti-trip technology for trip-free L-PE loop tests on 30 mA RCDs, plus phase rotation, voltage and frequency checks.

Key features

- Anti-Trip Technology for trip-free L-PE loop tests on RCDs rated 30 mA and above
- Dual display shows loop and PFC/PSC at the same time
- Two-wire connection possible for L-L, L-N loop and PSC tests
- Phase rotation, voltage (0–500 V) and frequency (45–65 Hz) measurement
- Lock-down test button with auto-start for hands-free testing
- Backlit display and keypad; IP54 water and dust protection

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

Loop Impedance L-PE (ATT off)

Rated / operating voltage	230 V (50/60 Hz) / 100 to 280 V (45 to 65 Hz)
Range (auto-ranging)	20 / 200 / 2000 Ω
Nominal test current at 230 V	20 Ω : 6 A / 20 ms; 200 Ω : 2.3 A / 20 ms; 2000 Ω : 15 mA / 250 ms
Accuracy	$\pm 3\%$ rdg ± 4 dgt

Loop Impedance L-PE (ATT on)

Range (auto-ranging)	20 / 200 / 2000 Ω (L-N < 20 Ω)
Nominal test current at 230 V	L-N: 6 A / 60 ms; N-PE: 10 mA / approx. 5 s
Accuracy	$\pm 3\%$ rdg ± 6 dgt

Loop Impedance L-N / L-L

Rated / operating voltage	L-N: 230 V, L-L: 400 V (50/60 Hz) / 100 to 500 V (45 to 65 Hz)
Range	20 Ω (test current 6 A / 20 ms)
Accuracy	L-N: $\pm 3\%$ rdg ± 4 dgt; L-L: $\pm 3\%$ rdg ± 8 dgt

PFC / PSC

PFC (L-PE)	2000 A / 20 kA (auto-ranging); 230 V, operating 100 to 280 V
PFC (ATT)	2000 A / 20 kA (L-N < 20 Ω)
PSC (L-N / L-L)	2000 A / 20 kA; L-N 230 V, L-L 400 V, operating 100 to 500 V



PFC / PSC (continued)

Accuracy Derived from measured loop impedance and measured voltage specifications

Phase Rotation, Voltage & Frequency

Phase rotation 50 to 500 V, 45 to 65 Hz; correct sequence shows "1.2.3", reversed shows "3.2.1"

Voltage 0 to 500 V; $\pm 2\%$ rdg ± 4 dgt

Frequency 45 to 65 Hz; $\pm 0.5\%$ rdg ± 2 dgt

Safety

Measurement category IEC 61010-1 CAT III 300 V (500 V L to L)

Standards IEC 61010-031, IEC 61557-1, 3, 7, 10, IEC 60529 (IP54), IEC 61326 (EMC)

General

Power source 1.5 V AA batteries $\times 6$ (alkaline LR6 recommended)

Dimensions 84 (L) $\times$ 184 (W) $\times$ 133 (D) mm

Weight Approx. 860 g (including batteries)

What's in the box

- Mains test lead (UK / EU / SA / AU, by region) (7187A / 7218A / 7221A / 7222A)
- Distribution board test lead (7246 / 7247)
- Soft case with shoulder strap (9156A)
- Battery (LR6 (AA)) $\times 6$
- Instruction manual

Typical applications

- **Electrical Safety Testing** – Loop impedance, PFC and PSC tests to IEC 61557-3, trip-free on 30 mA RCDs.
- **Power Distribution** – L-L and L-N loop/PSC on 230/400 V systems at distribution boards.
- **Phase Sequence Testing** – Indicates phase rotation from 50 to 500 V.

Official Kyoritsu documents

[KEW 4140 product catalogue \(English\)](#) PDF · www.kew-ltd.co.jp

[KEW 4140 instruction manual \(English\)](#) PDF · www.kew-ltd.co.jp

Order or ask for a quotation

Industrial Supply Syndicate supplies the Kyoritsu KEW 4140 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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