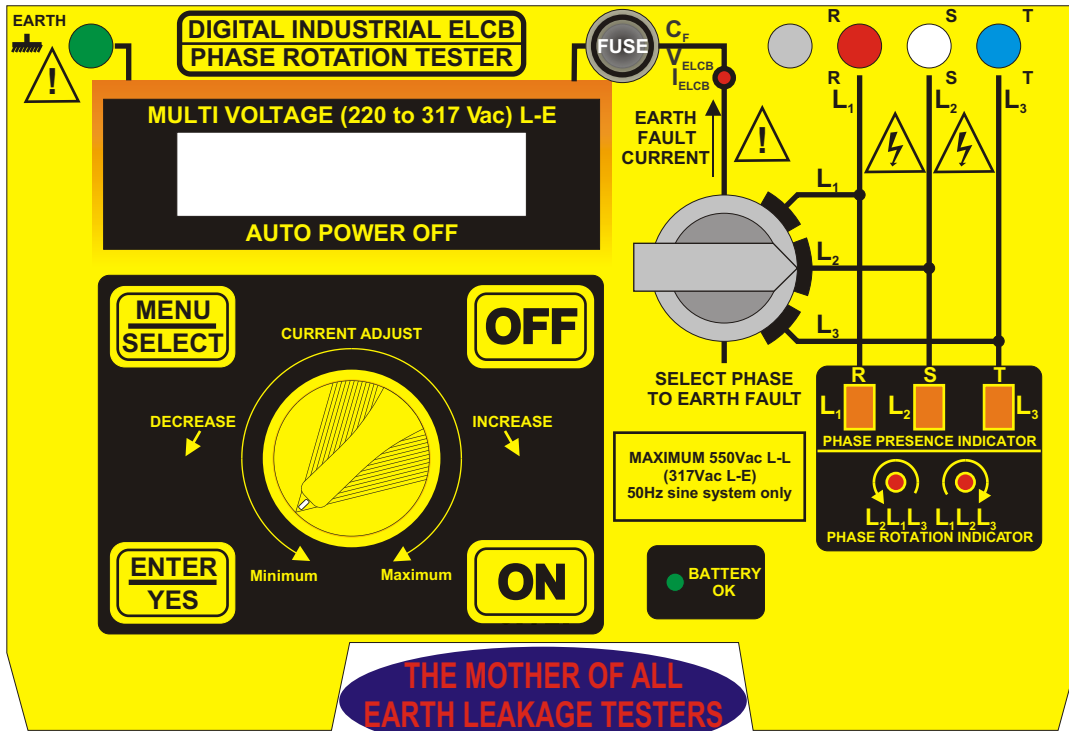


Model: 6221EL



STANDARD

3 PHASES INDUSTRIAL EARTH LEAKAGE TESTER and 3 PHASE PRESENCE & ROTATION INDICATOR



Does your ELCB Trips?

Yes...maybe...sometimes...

But does it trips from Each Phase ?

or, does it trip at the same sensitivity level from each phase? Or does it disconnects at the same time from each phase? Maybe there is a phase with standing leakage or a phase from which anomaly exist? Are all these disconnection time and sensitivity consistent, test after test?

Are all the phases present and are they rotating the way you want them to?

If you can't answers all these questions quickly, then the 6221EL is your solution.

When utilized as a 3 Phase Earth Leakage Tester, you can inject a current from the selected phase, to Earth, and measure the current at which the breaker disconnect or the time taken to disconnect.

When utilized to check the 3 Phases Presence and Rotation, this instrument is a rotary field indication instrument which display all three phases by lighting up it's corresponding lamp. It display the rotation (clockwise or anti-clockwise) on LED.

This instrument represents the quickest and easiest way for keeping your 3 phases system's safety up and running, or for maintaining, servicing, and repairing it.

Indicates Phase Presence.

Indicates Phase Rotation.

TEST for Disconnection Sensitivity.

TEST for Disconnection Time.

Indicates Battery Status.

Select One of 3 Phase to test ELCB.

Measure Voltage Phase to Earth.

Color Coded test Leads.

Phase Presence Indication from as low as 100Vac.

Works from 8 x C size 1.5V Battery.

Very Low Consumption.

Fused Earth Leakage Tester .

Lightweight, Robust & Compact.

ELCB Works 50Vac to 330Vac 50Hz.

Two-year warranty.

Led indication of Voltage on ELCB.

Phase Rotation and Presence does not require battery to indicate.

6221EL 3 Phase ELCB tester- Designed for Professionals

The tester has two separate circuits:

The first circuit is the **3 Phase presence indicator**, which is shown by the neon lamps and the **three phase sequence indicator** which is shown by leds.

A low battery, combined with a Power On indicator circuitry is also present (BAT OK).

The 3 Phase Presence Indication circuit uses neon lamps to indicate if a phase is present.

These neon lamps are connected in series with a limiting resistor. Neon lamps will light up when the voltage across any two phases are more than 100Vac.

The 3 Phase sequence indicator circuit has an analog and a digital part. The analog signals are shaped, then compared to a set of references. These results are digitally compared to give the results on the indicating LEDs (L1L2L3 or L2L1L3).

The second circuit is the Digital Earth Leakage tester;

At switch ON, the battery voltage is measured and compared. If the battery voltage is below the threshold, the LED will not lights up, thus replacing the battery is needed.

The large rotary switch route the selected Phase to the Earth Leakage Tester.

The **Earth Leakage Tester** has a **Digital Voltmeter** which measure the Vac 50Hz voltage between Earth the the selected Phase, then generates a constant current source type of fault, which is utilized to measure the time it take for the circuit to disconnect, or it generate an increase current fault to measure the sensitivity at which the breaker disconnects.

The Earth Leakage Tester is fused, and a bright red led indicates when voltage is present between the leads of the Earth Leakage. Should this RED led not lit, then, maybe the fuse is not present or is broken, or there is no phase connected to the Earth Leakage Tester.

TECHNICAL SPECIFICATIONS		6221EL
Phase Presence	From	100Vac
Nominal Voltage for Phase Presence Indication (the voltage required for the neon lamps L1, L2, L3 to light up).	To	550Vac
	Freq	10-400Hz
Determination of Phase Rotation	From	100Vac
Field Direction	To	550Vac
	Frequency	2-400Hz
Battery		8 x 1.5V (C)
Earth Leakage		
Constant Current Iac (mA) @50Hz		5 to 999
Ramping Current starting from (mA)		5 to 999
Sensitivity Disconnection Check (mA)		5 to 999
Time Delay Disconnection Check (S)		0.001-99.999
Maximum Current Consumption		10mA
ELCB Voltage Measurement L-E(Vac)		10 to 330
ELCB tester Voltage Present (V_{ELCB})		LED
ELCB Fuse (slow Blow)		1.5A
Protections		
OverVoltage CLASS III		450V
Over Load between all terminals		550V
Battery OK goes off when battery voltage		<9Vdc

PERFORMANCE SELECTOR	6221EL
Indicates Phase Presence (>100Vac)	
Indicates Phase Rotation (>100Vac)	
Indicates Battery OK (>9V)	
Measure Disconnection Time of ELCB	
Measure Disconnection mA of ELCB	
Over Voltage Protection	
Fuse Protection	
ELCB tester is fused	
Uses only 8 x 1.5V C cell Batteries	
Rugged	
Color Coded Test Leads	

Specifications subject to change without notice.

Authorized Distributor of SEW in China

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