

The 6221 EL is a 3-Phase Presence and Rotation Indicator **combined** with a 3-Phase Industrial Earth Leakage Tester.

When utilized as a 3-Phase Presence and Rotation Indicator, the instrument does not use the batteries. Therefore, it can still be utilized if the batteries are not present or if the batteries are too low. The 3-Phase Presence and Rotation Indicator portion of the 6221 EL, takes its power from the circuit under test.

The Earth Leakage portion of the tester can be utilized on either a Single-Phase Powered System (up to 317Vac Line-to-Earth) or a **3-Phase Powered System** (550V Line-to-Line or Phase-to-Phase) with a protective Earth conductor. The Earth Leakage tester requires batteries. When utilized on a single phase, ensure a correct connection between Line and Earth before using the tester.

When utilized on a **3-Phase Powered System**, the 6221 EL uses both the 3-Phase Presence and Rotation Indicator and the Earth Leakage tester. Select which phase to Earth will be utilized for the ELCB test. On a 3-Phase Powered System, this instrument is a rotary field indication instrument which displays all three phases by illuminating the corresponding lamp. It displays the phase rotation (clockwise or counter-clockwise) by two LEDs.

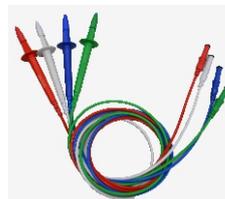
To test the tripping time or the tripping current of an Earth Leakage Circuit Breaker, be sure to connect the earth wire.

The 6221 EL represents the quickest and easiest way of servicing, repairing and maintaining 3-Phase Systems with earth leakage. With this equipment it is possible, before connecting Load to Supply, to:

- 1) Quickly verify the presence of the three phases on a 3-Phase Power System.
- 2) Confirm the Phase Rotation on a Powered 3-Phase System.
- 3) Test the tripping (disconnection) current and time of the protections.

FEATURES

- **Microprocessor-controlled**
- Indicates phase rotation
- Indicates phase presence
- Tests disconnection sensitivity
- Indicates battery status
- Tests disconnection time
- Measures voltage Phase to Earth
- User can select any one of 3 phases to test ELCB
- Color coded test leads
- Phase presence indication from as low as 100Vac
- Very low power consumption
- Fused earth leakage tester
- ELCB tester rated for 50Vac to 330Vac 50Hz / 60Hz
- LED indication of voltage on ELCB
- Phase Presence and Rotation Indicator does not require batteries

**6221 EL**

SPECIFICATIONS

• Nominal voltage for phase presence	100Vac to 450Vac
• frequency range	10Hz to 400Hz
• Rotary field direction	100 to 450Vac
• phases frequency range	2Hz to 400Hz
• Overload protection	550V (between all terminals)
• Over voltage protection	Class III - 450V towards ground
• Current settings	999mAac /50Hz-60Hz
• Phase start selection	0° and 180°
• Phase polarity trip Indicator	✓
• Operating voltage (L-E) referenced to earth	220Vac to 317Vac
• Timer resolution	1ms (Max. Time=99.99s)
• Timer accuracy	1ms ±4ms
• Current accuracy	±3% ±4mA
• Current resolution	1mA
• Voltmeter accuracy (50Hz)	50-350Vac = ±3% ±2V 300-550Vac = ±7% ±3V
• Voltmeter resolution	1V
• Maximum current	317Vac / 50Hz
• Operating temp. range	0°C to 40°C
• Storage temperature	-10°C to 50°C
• Dimensions	330(L) x 260(W) x 160(D)mm
• Weight (battery included)	Approx. 3850g
• Power source	1.5V "C" x 8 ; Bat OK LED = Vbat>9V
• Safety standard	EN 61010-1 CAT III 550V EN 61326-1

All Specifications are subject to change without prior notice