

## LOOP IMPEDANCE / PSC / EARTH TESTER



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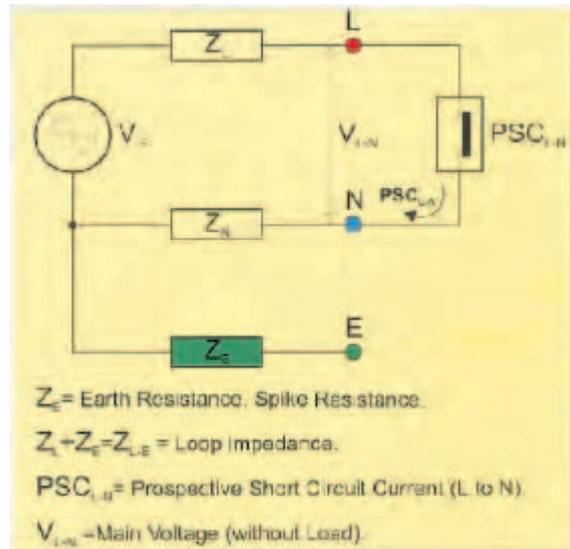
### 1824LP

### FEATURES

- Measures Earth Resistance without the need for poles in the ground or external measuring wires.
- Earth Measurement uses the real earth current path and the current generated by the electric network, without the need for any disconnection.
- Earth Resistance displays is exactly what the earth resistance, that the earth current will need to go through is an earth fault occurs. (you do not need to add all the bonding points and connection paths)
- Displays voltage supply at the transformer (Line to Neutral), without loading the transformer.
- Single One Smart Push button operation ;ON, Scroll through results and menus.
- Checks wiring integrity(LEDs).
- Auto-off/auto-ranging (software range).
- Microprocessor controlled.
- Combined Prospective Short circuit Current, Loop and Earth Tester.
- Loop test for L-E and PSC between L-N.
- Voltage test L-N.
- Display can be customized for large orders.
- EN/IEC 61010-1 CAT III 300V

The 1824LP is the first of a new generation of instruments for the testing of electrical installations.

It has a **built-in Earth tester** which does not requires the use of poles or long wires. **This instrument is useful for fault-finding or commissioning of electrical installations.** This new instrument uses a three wires unique principle of operation. It display the main **system voltage** of the power utility, without loading the wiring. The 1824LP displays the **Loop Impedance** between Line and Earth ( $Z_L+Z_E$ )= $Z_{L-E}$  and **Prospective Short Circuit** between Line and Neutral.



### SPECIFICATIONS

Loop Impedance Range L - E	0.03 -2000 $\Omega$ (Software Ctrl)
Test Currents In Each Loop	11.76A at 230V/50Hz
Voltage Measurement	50 to 280V AC (Sine)
Earth wire/path Return Resistance	0.01 -2000 $\Omega$ (Software Ctrl )
Neutral Wire Resistance	(Not available, see 1826NA)
Line Wire Resistance & Transformer Windings	(Not available, see 1826NA)
PSC Current (L -N) Max	8kA at 230Vac supply
PSC Current (L -E) Max	(Not available, see 1826NA)
Operating Voltage	230V $\pm$ 20 at 50Hz Sine
Typical Accuracy	
Loop Impedance	4%rdg $\pm$ 2dgt
PSC Current	10%rdg $\pm$ 5dgt
Voltage	2%rdg $\pm$ 1dgt
Operating -Temperature -Humidity	-10 $^{\circ}$ C to +40 $^{\circ}$ C 80% max relative humidity
Dimensions (LxWxD)	(170x165x92)mm
Weight	970g Approx.
Power Source	1.5V(AA)x8 Batteries
Accessories	Test leads (AL-34) Shoulder belt Instruction manual Batteries



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