



Model 1824 LP

Digital Loop / PSC / Earth Tester



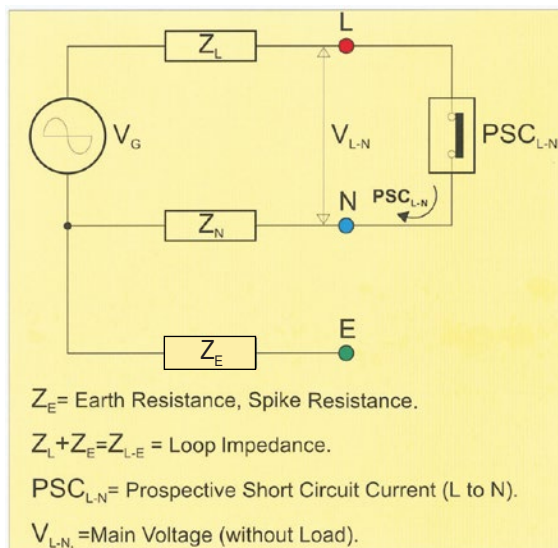
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The 1824 LP is a new generation of instruments for the testing of electrical installations.

It has a **built-in Earth tester** which does not require 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 displays the main system voltage of the power utility, without loading the wiring.

The 1824 LP displays the Loop Impedance between Line and Earth ($Z_L + Z_E = Z_{L-E}$) and Prospective Short Circuit between Line and Neutral.



Features

- Microprocessor-controlled.
- 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.
- The Earth Resistance displayed is exactly the earth resistance that the earth current will need to go through if 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).
- Color-coded test leads.
- 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.

Specifications

Loop impedance range: L-E 0.03-2000Ω (software ctrl)

Test currents in each loop: 11.76A at 230V / 50Hz

Voltage measurement : 50 to 280V AC (Sine)

Earth wire/path

return resistance: 0.01-2000Ω (software ctrl)

Neutral wire resistance: (Not available, see 1826 NA)

Line wire resistance &

transformer windings: (Not available, see 1826 NA)

PSC current (L-N) max: 6kA at 230Vac supply

PSC current (L-E) max: (Not available, see 1826 NA)

Operating voltage: 230V±20V at 50Hz Sine

Typical Accuracy

Loop impedance: ±4%rdg ± 2dgt

PSC current: ±10%rdg ± 5dgt

Voltage: ±2%rdg ± 1dgt

Operating temp./humidity: -10°C to +40°C 80% Max RH

Dimensions: 170(L) x 165(W) x 92(D)mm

Weight (battery included): Approx. 970g

Power source: 1.5V (AA) x 8

Safety standardL EN 61010-1 CAT III 300V. EN 61326-1

Accessories: Instruction manual. Test leads. Shoulder belt Batteries