MEASURE WITH PRECISION

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SEW

Electrical Network Analyzer

The 1826 NA-A is a portable electrical network analyzer. 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. Differentiation between the Line (hot), Neutral and Earth (ground) path by reading their values has never been so easy. Bad contacts, old wiring or bad earth paths are quickly identified. Faulty electrical networks can be resolved in a fraction of the time normally required using conventional equipment, as faults can be identified and diagnosed quickly. With the 1826 NA-A, the user can determine which wire needs to be attended to and why. For example, old wires with high impedance can be found and replaced before a fire starts.

The complete electrical network can be analyzed by scrolling through the results of the 1826 NA-A.
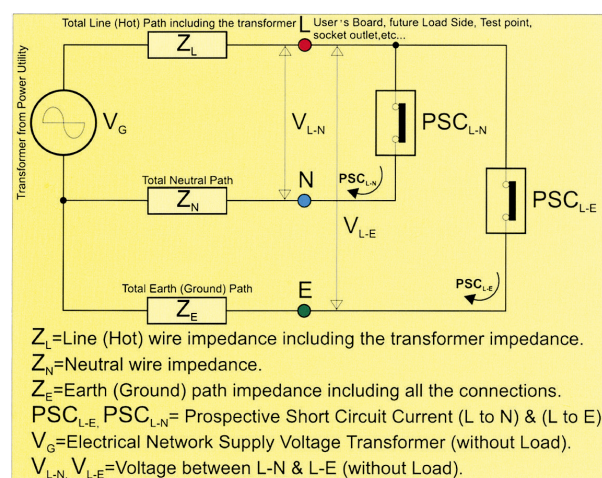
1826 NA-A

CE

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. No need to add all the bonding points and connection paths resistances.
- Displays voltage supply at the transformer (Line to Neutral), without loading the transformer.
  Displays voltage between Line (Phase) and Earth (Ground), without drawing any current.
- Measures the impedance of the line itself so you can analyze and differentiate between the multiples paths of the wiring.
- Measures the Neutral Impedance.
  Single one smart push button operation; ON, Test, Scroll trough results and menus.
- Checks wiring integrity (LEDs).
- Auto off/auto ranging (software ranging).
- Combined prospective short circuit current, loop, individual wire and Earth Tester.
- Voltage test L-N and L-E.
- Loop test for L-E and L-N and PSC.
- Enables analysis of constituent components in L-E and L-N loops giving resistance of earth, neutral wire, live wire and transformer winding.
- Display can be customized for large orders.

Z_L=Line (Hot) wire impedance including the transformer impedance.
Z_N=Neutral wire impedance.
Z_E=Earth (Ground) path impedance including all the connections.
PSC_{L-E}, PSC_{L-N}= Prospective Short Circuit Current (L to N) & (L to E).
V_G=Electrical Network Supply Voltage Transformer (without Load).
V_{L-N}, V_{L-E}=Voltage between L-N & L-E (without Load).

SPECIFICATIONS

Loop impedance range L-E, L-N	0.03-2000Ω (software ctrl)
Test currents in each loop	11.76A at 230V / 50Hz
Voltage measurement L-N,L-E	50 to 280V AC (Sine)
Earth wire/path return resistance	0.01-2000Ω (software ctrl)
Neutral wire resistance	0.01-2000Ω (software ctrl)
Line wire resistance & transformer windings	0.01-2000Ω (software ctrl)
PSC current (L-N) max	6kA at 230Vac supply
PSC current (L-E) max	6kA at 230Vac supply
Operating voltage	230V±20V at 50Hz Sine
Loop impedance	±4%rdg ± 2dgt
PSC current	±10%rdg ± 5dgt
Voltage	±2%rdg ±1dgt
Operating-temperature-humidity	0°C to +40°C 80% Max. relative humidity
Dimensions	170(L) × 165(W) × 92(D)mm
Weight (battery Included)	Approx. 970g
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 300V EN 61326-1
Accessories	Instruction manual Test leads Shoulder belt Batteries