



Model 880 AT

Mini Appliance Checker



The Mini Appliance Checker 880 AT is a simplified version of an appliance tester which use low voltage and low current to perform its checks. This is not intended to be used to perform certification testing.

It has been designed to be low cost and simple to use, but still has all the necessary basic functions to check a normal appliance. It has been designed to be utilized by people who need to check the good status of insulation and plug wiring, for example, before delivery of an appliance to a customer.

This Mini Appliance Checker also can be utilized to confirm the problematic status of an appliance which need servicing.

This checker verify that the resistance between the Line and Earth conductor connected to the appliance is more than 1M ohm. If this is not the case, the L-E LED will light up, showing a likely insulation fault between L-E.

This checker verify that the resistance between the Neutral and Earth conductor connected to the appliance is more than 1M ohm. If this is not the case, the N-E LED will light up, showing a likely insulation fault between N-E.

This checker verify that the resistance between the Earth Chassis of the appliance and the Earth conductor(at the plug) connected to the appliance is less than 10 ohms. If this is not the case, the EARTH BOND LED will light up, showing a likely continuity fault between the earth at the plug and the chassis of the appliance.

When these three conditions are satisfied, the GREEN SAFE LED will lights up, showing that the appliance has checked SAFE according to the checker method of testing.

Always use the appliance simulator before and after using the checker on a real appliance, to ensure proper working condition of the checker.

Please note that due to the fact that this checker uses less than 10V for its faulty voltage dependent devices could be undetected.

Features

- The 880 AT is a simplified version of an appliance tester which use low voltage and low current to perform it's checks.
- Holster is optional

Specifications

Electrical

Resistance Ranges

- The L-E led will lit when the resistance between Line to Earth is lower than $1M\Omega \pm 5\%$.
- The N-E led will lit when the resistance between Neutral to Earth is lower than $1M\Omega \pm 5\%$.
- The EARTH BOND led will lit when the resistance between the EARTH to the Probe is higher than $10\Omega \pm 5\%$.

Test Current

- Line to Earth test current: 9uA maximum.
- Neutral to Earth test current: 9uA maximum.
- Earth to Probe test current: 2.3mA maximum.

Maximum Output Voltage: 9V rm

Response Time: 0.1sec nominal

Voltage Withstand: 6V AC between any two terminals

Battery Low Indication point: 7V nominal

General

Operating Temperature: -15 °C to + 55 °C

Storage Temperature: -20 °C to + 70 °C

Size: 72 x 150 x 36mm

Material: ABS

Weight (less carrying case): Approx.194g (with battery)

Display: LEDs

Battery: 9V(6F22) x 1

Safety standard: EN 61326-1

Application Example

The appliance is plugged into the mini appliance checker, then the probe make contact with the protective conductor.

Other appliance checking:

Washing Machine,
Toaster,
Iron,
Dish Washer,
Stove.

