



BLUE Line ESR **Redesign von BLUE METER ESR / LOW OHM METER** (Originally designed by Bob Parker)

Einführung

An easy-to-use meter that can repair electronic equipment, i. amplifiers, televisions, monitors, significantly accelerated. It makes it easy and quick to identify a damaged electrolytic capacitor without having to desolder it from the PCB board. As a result, you can quickly repair a device without having any expertise in electronics. With BLUE LINE ESR you save a lot of time and money. It is completely assembled and calibrated. When used properly, it will be reliable for many years.



A completely new design based on a 32-bit microcontroller that:

- reduces energy consumption (the meter requires only 2 AA batteries 1.5V)
- temperature compensation allows
- extends the measuring range up to 108 ohms (the 3-digit display)

Features include:

- In-circuit testing of electrolytic capacitors
- Test lead resistance zeroing
- Non-polarized test leads
- Easy-to-read, high brightness blue LED display
- Automatic power off when reading is unchanged for 3 minutes
- Battery life (about 20h)
- The high-power diodes built into the input circuit prevent the meter from being damaged by the connection of a charged capacitor

Making a Measurement:

1. Switch on the meter by pressing the  button. Symbol “---” appears on the display to indicate that the meter is on and test leads are separated (or disconnected).
2. Insert the plugs of the test leads into their sockets.
3. Hold the test probes tightly together* and press the  button again to start zeroing procedure. In the result the 0.00 reading will appear on the display.



* To provide the best accuracy of measurement ESR, the probes should be as short as possible (less than 1m) and have a resistance below 0.5Ω. If the reading is higher than 0.68 it is not possible to perform zeroing resistance.



4. The meter is ready to measure ESR capacitor's.

Before using the meter, make sure that all tested capacitors are fully discharged.

5. To assess which capacitor needs replacing compare reading with a table printed on the meter front. If the reading is at least ten times higher than corresponding value from the table, capacitor can cause a circuit malfunction and should be replaced.

Switching off

Pressing button „ON/OFF” while the test leads are separated (or connected to a resistance of 0.5Ω or higher) switch off the meter. In addition, the ESR Meter includes an automatic power-off function. This shuts the meter down if it has been idle for more than three minutes.

Battery voltage warning

When the battery level is low there is a indication on the display. On the righthand digit a „b” flashes at a 1 Hz rate. When the “b” is displayed constantly the battery level is critically low. In both cases batteries needs replacing.

Power supply

The Blue line ESR is powered by two AA batteries. You may use either disposable or rechargeable batteries. Batteries should be replaced with a new set of batteries of the same kind. Do not use a rechargeable battery in combination with a disposable battery or a partially discharged battery with a fully battery.

Warranty

Notwithstanding the statutory warranty claims, NOVANEX provides a warranty in accordance with the laws of the Customer's country for a period of at least two years from the date of sale of the device to the end user. The warranty covers only those faults which are caused by defects in material or workmanship. A warranty claim must be accompanied by a proof of purchase with the date of sale specified. Warranty repairs shall only be performed by an authorized distributor of NOVANEX. The following are excluded from the warranty:

- Use of force, damage caused by external factors or foreign bodies such as sand or water
- Damage caused by failure to comply with the instructions for use
- Normal wear and tear

The warranty does not cover devices that are partially or entirely disassembled.