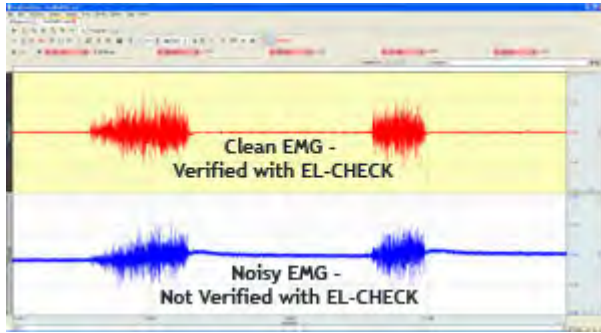


EL-CHECK – ELECTRODE IMPEDANCE CHECKER



[BIOPAC EL-CHECK](#) video tutorial!

Use EL-CHECK to determine electrode/surface contact impedances. Measurements are selectable to a standard three-point contact (Vin+ to GND, Vin- to GND and Vin+ to Vin-). Electrode impedance range from < 5 kΩ to > 50 kΩ is indicated in seven levels. EL-CHECK accepts standard 1.5 mm Touchproof and BioNomadix connectors.

EL-CHECK will support over 50,000 10-second measurements with a single 9-volt battery.

The EL-CHECK is suitable for measuring electrode contact impedance for all surface biopotential measurements, including ECG, EEG, EGG, EMG, EOG, Bioimpedance and Impedance Cardiography. The EL-CHECK permits simultaneous connection of up to three electrode leads, for quick impedance checking between any two electrodes in the three connected leads (Active or Vin+) and (Reference or Vin-) and GND.

To test the impedance between any two electrode leads:

1. Insert the leads into the appropriate connectors on the front panel of the EL-CHECK.
2. Switch the selector knob to the corresponding position, and then press and hold the “Test” button.

Green, Yellow, Orange and/or Red LEDs will illuminate to indicate the measured electrode impedance. The EL-CHECK is only active when the “Test” button is pressed.

For best biopotential measurement results, the impedance between any two electrode leads should be less than 5 kΩ. To obtain electrode lead-to-lead impedances of less than 5 kΩ, it’s advisable to lightly abrade the skin with an abrasive pad, such as BIOPAC’s ELPAD, and then apply a well-gelled (not dry) surface electrode. Dried-out surface electrodes can sometimes be rejuvenated by applying a small amount of BIOPAC’s electrode gel to the contact pad of the electrode.

Specifications

Test Frequency:	25 Hz
Test Current:	3.5 μA rms (10 μA peak-peak: constant current)
Electrode Impedance Range Indicators:	< 5 kΩ, 5k-10 kΩ, 10 to 20 kΩ, 20k-30 kΩ, 30k-40 kΩ, 40-50 kΩ, > 50 kΩ
Lead Compatibility:	Standard female touchproof (1.5 mm) electrode leads, all BIOPAC electrodes and leads that terminate in female 1.5 mm touchproof sockets, all BN- EL and BN-Adapt series.
Testing Configurations Switch Selectable:	Active (Vin+) to Reference (Vin-), Active (Vin+) to Ground (GND), Reference (Vin-) to Ground (GND)
Power:	One 9 V Alkaline battery, ~50,000 impedance tests possible per battery
Dimensions:	14 cm long x 8 cm wide x 2.2 cm high
Weight:	132 grams