Impedance Testing Device for Microelectrode Arrays

- Quick and easy identification of electrode impedances
- User-friendly, intuitive software
- Monitor quality of MEAs over time
- Export data to any database
Impedance Testing Device

Do you need to know the impedance of your MEA electrodes? Do you want to identify faulty sides? Or would you like to monitor the impedance of your electrodes over time? Not a problem - with the MEA-IT, the impedance testing device from Multi Channel Systems.

The MEA-IT is the reliable, easy-to-use solution to test the quality of your microelectrode array. All you need to do is to connect the device via the included USB cable to any PC or laptop, insert the MEA, open the software, and start the measurement. Within less than a minute, you know the impedance of every single electrode.

Intuitive software

The complete measurement process is controlled via the included software. On the virtual MEA-layout, you can see the impedance of each electrode. Colors indicate the condition of the electrode and facilitate a quick overview.

You can save the data after each measurement and export the history of one MEA. This way you can monitor the development of each electrode’s impedance over the entire life span of the array.

MEA-IT: Technical specifications

Number of channels 120
Dimensions (W x D x H) 250 mm x 140 mm x 25 mm
Measurement range 5 kOhm ... 2 MOhm
Test signal 100 mV, 1 kHz Sinus
Accuracy 5 %
Power supply USB powered
PC interface USB 2.0

Currently, the MEA-IT is available for MEAs with 60 or 120 electrodes. Please contact us for more detailed information.