

SIGGI II

Signal Generator & Impedance Meter

SIGGI II is a laboratory tool for generating and measuring electrical signal parameters in the voltage range of typical biophysiological signals. SIGGI II is a great help for users, resellers, technicians, or developers of devices for the acquisition of biosignals (e.g. EEG amplifiers).

Its four main functions are: Signal Generator, Impedance Meter, Amplifier / Data Logger and Electrode Tester.

The calibrated Signal Generator, issuing both built-in and recorded signals onto 1-32 channels (accompanied by a trigger signal), can be used to verify an amplifier's ability to correctly record amplitudes and frequencies, to visualize filter characteristics, to check linearity of DC amplifiers and to check Common Mode Rejection (CMR).

The Impedance Meter measures the impedance between 1-32 electrodes and their reference and ground electrodes. Special custom adaptors for any EEG-Recording Cap / electrode input box can be supplied. This is a comfortable way to measure impedances independent from the EEG amplifier or if there are reasons to doubt the impedance measurement routines built into the respective amplifier.

The Amplifier/Data Logger can record, amplify and store user specific signals and replay them with the Signal Generator. The Electrode Tester measures the electrode potential of 1-32 electrodes and its changes for up to 6 hours. This unique tool is indispensable for assessing the suitability of individual electrodes for DC recordings.



Technical Data

Signal Exit

Frequency	0.1 - 1000Hz \pm 0.1%
Wave Range	Sine Wave, Square Wave, DC, Amplifier Signal, ECG, Recorded Wave
Amplitude	20mVpp - 0 μ Vpp Exit A \pm 1% 0 - 100Hz / \pm 5% 100Hz - 1000Hz Exit B \pm 5% 0 - 100Hz / \pm 10% 100Hz - 1000Hz
DC Overlay	\pm 300mV - 0mV \pm 10%
CMR Overlay	3, 50, 60Hz Sinus / 5Vpp - 0Vpp \pm 10%

Impedance Meter

Wave Range	Sine Wave
Measuring Frequency	5, 15, 30, 100Hz
Measuring Range	200K - OK \pm 2% 5 - 30Hz / \pm 5% 100Hz

Electrode Tester

DC Range	500mVpp - 2mVpp
Measuring Time	5 hours

Measuring Amplifier

Time Constant	500mVpp - 10 μ Vpp \pm 5%
Measuring Frequency	0 - 1000Hz



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