EASYCAP

EEG Recording Caps and Related Products

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:

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.

SYMBIOTIC DEVICES

www.symbioticdevices.com.au

Technical Specification

Signal Generator

Frequency	0.1 - 1000Hz ±0.1%
Waveforms	Sine and Square Waves, DC, Amplifiers Signal, ECG, Recorded Signal
Amplitude	0µV(pp) - 20mV(pp) Output A (high precision - few channels): 0 - 95Hz ± 1%; 100Hz - 1000Hz ±5% | Output B (high power - many channels): 0 - 95Hz ±5%; 100Hz - 1000Hz ±10%
DC Overlay	0mV - ±300mV
CMR Overlay	3, 50, 60Hz Sine; 0V - 5V

Impedance Meter

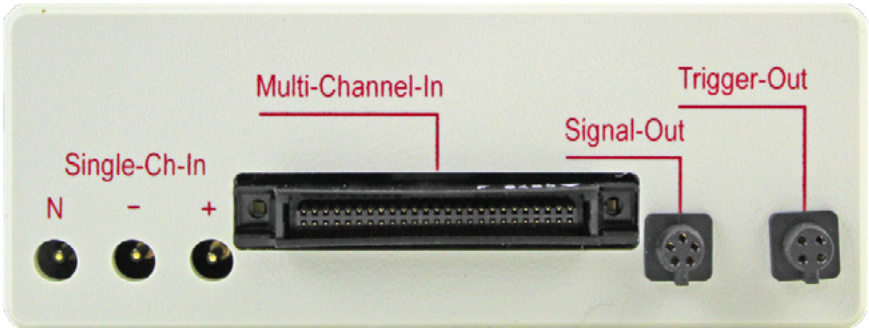
Waveform	Sine
Measuring Frequency	5, 15, 30, 100Hz
Measuring Range	0K - 200K

Electrode Tester

Range	2mV(pp) - 500mV(pp)
Measuring Time	~ 6 Hours

Measuring Amplifier

Range	10µV(pp) - 500mV(pp)
Time Constant	0,3s; DC
Upper Cutoff Frequency/Low Pass	70Hz; 1KHz



Delivery Scope

SIGGI II package	SIGGI II base unit, 4xAA accumulators, Accumulator charger, 3xSingle-Ch-In cables, Signal-out box, Trigger-Out cable, Belt, User guide.

SYMBIOTIC DEVICES

p 1300 934 947 f 1300 734 712
w www.symbioticdevices.com.au
e team@symbioticdevices.com.au
a Unit 6, 105-111 Ricketts Road
Mount Waverley, VIC 3149