

SEN2012 Biopotential Sensor

PowerLab Sensors Series

Description

The PowerLab Sensors Biopotential Sensor is a galvanically-isolated, high-performance differential amplifier optimized for the measurement of a wide variety of biopotential signals, including ECG, EEG, EMG and EOG. It is supplied with MLA2505 Shielded Lead Wires (5 pk) and MLA1010 Disposable ECG Electrodes (100 pk).



Operation

The Biopotential Sensor is connected to the MLA2505 Shielded Lead Wires (5 pk), then attached to the skin surface using MLA1010 Disposable ECG Electrodes (100 pk).

To use the Biopotential Sensor, plug the sensor into the USB port of a laptop or desktop computer, with a Windows or Mac operating system. Alternatively, plug the sensor into the PowerLab T1 or a USB hub connected to a computer. A blue LED on the Biopotential housing indicates the transducer is receiving power and is ready for use.

Application

The PowerLab Sensors Biopotential Sensor is used to measure a wide variety of biopotential signals, including ECG, EEG, EMG and EOG.

Typical Data



ECG and finger pulse data

Caution

Read "Statement of Intended Use" on our website.

Specifications

Sampling rate:	1, 2, 4, 10, 20, 40, 100* kHz
Frequency response:	
AC Mode	0.5 Hz to 50 kHz (dependent on sampling rate)
DC Mode	DC to 50 kHz (dependent on sampling rate)
Input Range:	0.5, 1, 2, 5, 10, 20 mV
Noise:	
1 Hz to 500 Hz	<5 μ Vrms (12 μ Vp-p max.)
Gain Accuracy:	\pm 1.0 %
Isolation:	5000VDC for 1 minute
Operating Temperature:	15 °C to 40 °C
Weight (excluding electrode leads):	100 g
Enclosure size (l×w×h):	80 x 50 x 23 mm
Cable length:	1.8 m (5.9')
Connector:	USB

All specifications were tested at the time of printing and are subject to change.

Ordering Information

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For use with:

Laptop or desktop computer with Windows or Mac operating system

ADINSTRUMENTS.com

ISO 9001:2015 Certified Quality Management System

WARRANTY: 1 year as per ADInstruments warranty terms for PowerLab Sensors.