SEN2061 Cardio Microphone Sensor

PowerLab Sensors Series

Description

The PowerLab Sensors Cardio Microphone Sensor converts heart sounds into electrical signals.

Operation

The Cardio Microphone contains an electret (condenser) microphone device. It converts mechanical vibrations at the body surface into electrical signals suitable for recording.

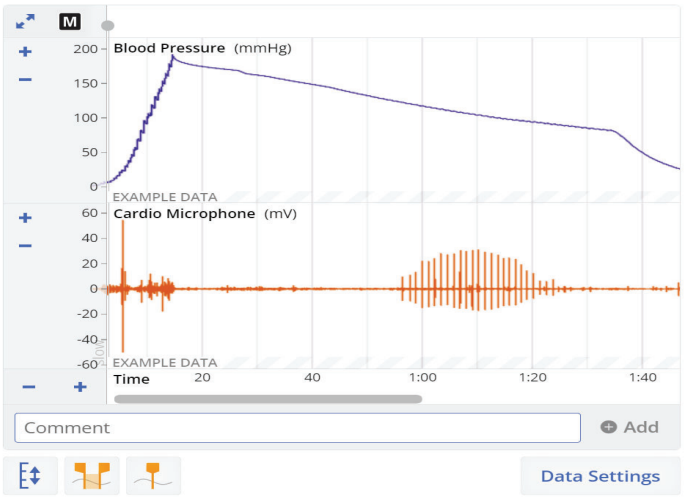
Firmly attach the Cardio Microphone to the chest with adhesive tape. Move the microphone into different positions until the best signal is obtained.

To use the Cardio Microphone 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 green LED on the connector housing indicates the transducer is receiving power and is ready for use.

Application

The Lt Sensor Cardio Microphone is suitable for recording heart sounds with frequencies in the range of 10 to 500 Hz. Heart sound measurements are used in the fields of Phonocardiography and Ballistocardiography.

Typical Data



Blood pressure measurement with Cardio Microphone to measure Korotkoff sounds

Caution

Read “Statement of Intended Use” on our website.

Specifications

Operating frequency:	10 to 500 Hz
Dynamic range:	0.01 to 10 m/s2
Variation in frequency response:	±3 %
Resonant frequency:	3.4 kHz
Amplitude nonlinearity at 10 Hz:	±3 %
Operating temperature:	15 °C to 45 °C
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

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