

## **MLT201 Cardio Microphone**

*Transducer Series*

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### **Description**

The MLT201 Cardio Microphone converts heart sounds into electrical signals. The microphone is suitable for connection directly to PowerLab Pod ports.



### **Operation**

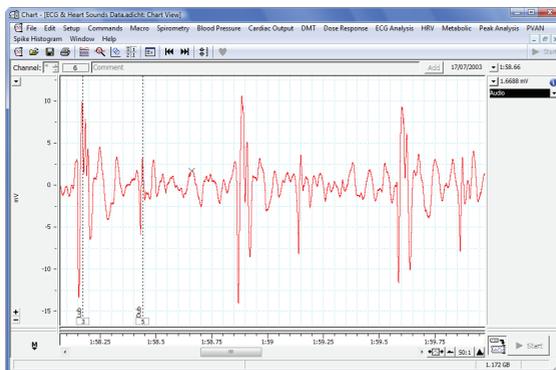
The Cardio Microphone contains an electret (condenser) microphone device. It converts mechanical vibrations at the body surface into electrical signals suitable for recording.

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

### **Application**

The MLT201 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**



*The screen capture shows a typical recording of heart sound using the MLT201 Cardio Microphone connected to a PowerLab Pod port*

## Caution

Read “Statement of Intended Use” on our website or in “Getting Started with PowerLab” before use.

## Specifications

Maximum excitation:	$\pm 10$ V
Conversion factor at 100 Hz:	100 V/s <sup>2</sup> /m
Operating frequency:	10 to 500 Hz
Dynamic range:	0.01 to 10 m/s <sup>2</sup>
Variation in frequency response:	$\pm 3$ %
Resonant frequency:	3.4 kHz
Amplitude nonlinearity at 10 Hz:	$\pm 3$ %
Operating temperature:	15 °C to 45 °C
Connector:	8-pin DIN

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

## Ordering Information:

MLT201 Cardio Microphone

For use with:  
Any PowerLab with Pod ports  
FE305 Pod Expander