

# **MLT201 Cardio Microphone**

Transducer Series

### 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:	$\pm 10 \text{ V}$
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:	±3 %
Resonant frequency:	3.4 kHz
Amplitude nonlinearity at 10 Hz:	±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

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#### ISO 9001:2008 Certified Quality Management System

WARRANTY: ADInstruments PowerLab data acquisition units (Product Number Prefix: PL), Front-end Signal Conditioners (Product Number Prefix: FE) are warranted against defects in materials and workmanship for a period of 5 years from the date of purchase. Other PowerLab data acquisition units and ADInstruments manufactured Front-end and Pod Signal Conditioners, and Instruments are warranted of a period of 3 years from the date of purchase. Third party products are covered by the manufacturer's warranty. Warranties are void if the product has been damaged due to negligence. Consumables and electrodes are not covered by a warranty. All questions regarding service and warranty should be directed to your nearest ADInstruments representative.