

# LTS2010 Biopotential Sensor

*Lt Sensors Series*

## Description

The Lt 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).

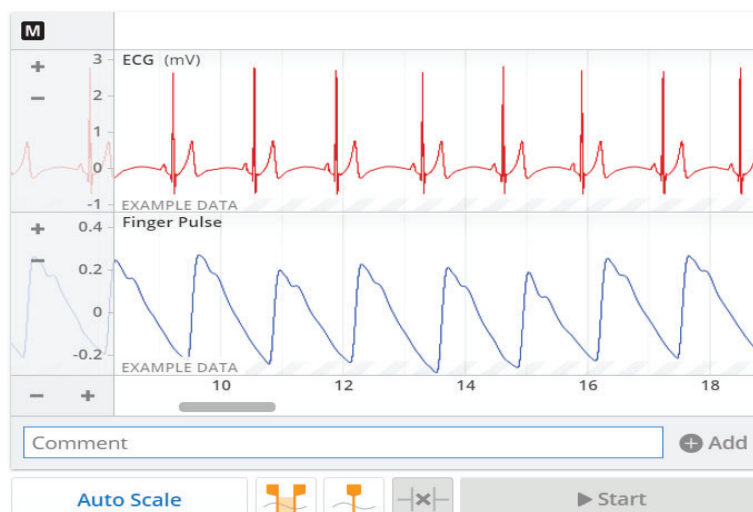


To use the Biopotential Sensor, plug the sensor into the USB port of a laptop or desktop computer, with a Windows operating system. Alternatively, plug the sensor into a USB hub connected to that computer. A green LED on the connector housing indicates the transducer is receiving power and is ready for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

## Application

The Lt 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

### Operating frequency:

ECG, EMG	0.5 Hz to 200 Hz
EEG	0.5 Hz to 50 Hz
EOG	DC to 500 Hz

### Input Range:

ECG	200 mV
EMG	200 mV
EEG	200 mV
EOG	200 mV

### Noise:

1 Hz to 500 Hz	<5 $\mu$ Vrms (12 $\mu$ Vp-p max.)
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### Gain Accuracy:

$\pm 1.0$  %

### Isolation:

5200VDC for 1 minute

### Operating Temperature:

15 °C to 40 °C

### Cable length:

2m (6.5')

### 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 operating system