

HKD AD8232 ECG PULSE HEART SENSOR

Description

AD8232 Single Lead Heart Rate Monitor is a cost-effective board used to measure the electrical activity of the heart. This electrical activity can be charted as an ECG or Electrocardiogram and output as an analog reading.

ECGs can be extremely noisy, the AD8232 Single Lead Heart Rate Monitor acts as an op amp to help obtain a clear signal from the PR and QT Intervals easily. It is an integrated signal conditioning block for ECG and other biopotential measurement applications.

It is designed to extract, amplify, and filter small biopotential signals in the presence of noisy conditions, such as those created by motion or remote electrode placement. The AD8232 sensor module to monitor Heart Rate breaks out nine connections from the IC that you can solder pins, wires, or other connectors to.

SDN, LO+, LO-, OUTPUT, 3.3V, and GND provide essential pins for operating this monitor with an Arduino or other development board. Also provided on this board are RA (Right Arm), LA (Left Arm), and RL (Right Leg) pins to attach and use your own custom sensors. Additionally, there is an LED indicator light that will pulsate to the rhythm of a heartbeat.

Biomedical Sensor Pads and Sensor Cables are required to use the heart monitor.

Features

Measures heart signals and displays ECG

Improves clarity in noisy readings, simplifies PR and QT intervals

Specialized circuitry for accurate signal amplification and filtering

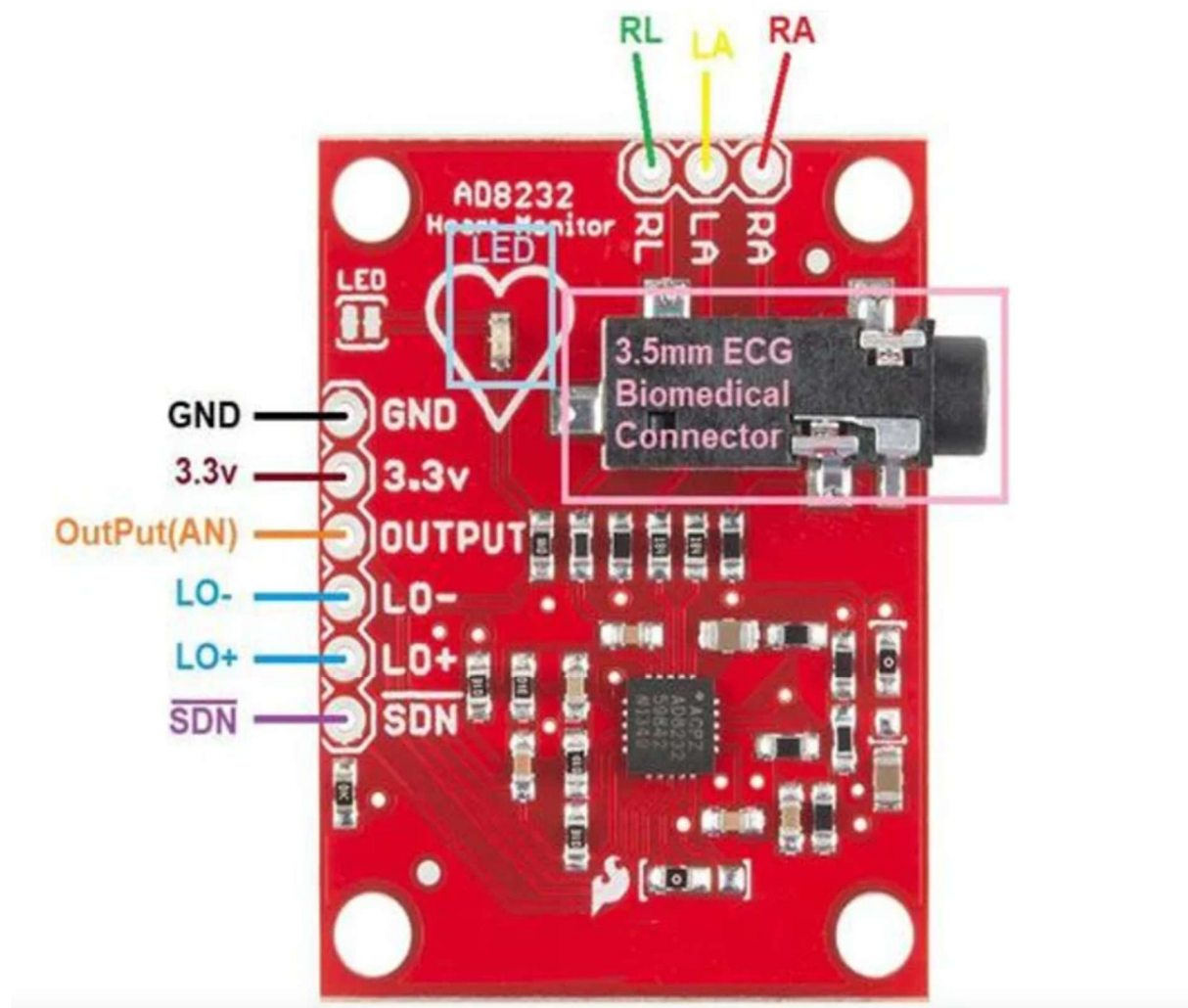
Nine connections for easy integration with Arduino

Essential pins: SDN, LO+, LO-, OUTPUT, 3.3V, GND

Custom sensors can connect via RA, LA, and RL pins

LED indicator pulses with your heartbeat

Wiring diagram



Electrode placement

RA → Right Arm

LA → Left Arm

RL → Right Leg

Safety disclaimer

This product is not a medical device and should not be used for diagnosis or treatment of any medical condition.

Always use the module with low-voltage, battery-powered systems (like Arduino or Raspberry Pi).

Avoid using the device while connected to mains-powered equipment to prevent electrical hazards.

Ensure proper electrode placement and avoid prolonged usage without supervision.

Specifications

Operating Voltage	3.3V (DC)
Operating Temperature	-40 to 90 (°C)
Cable Length	100cms
Dimensions	3.6 x 3.0 x 1.8cms
Weight	50 grams