

## ECG/GSR Click



PID: MIKROE-4500

**ECG/GSR Click** is a compact add-on board representing a complete solution for the development of ECG and GSR applications. This board features the [AS7030B](#), a vital sign sensor based on Photoplethysmography (PPG) and Electrocardiogram (ECG) operations from [AMS-AG](#). This vital-sign sensor features a low noise analog front end, a single device integrated optical solution, a synchronous demodulator, and skin temperature and skin resistivity measurements by providing an interface to external NTC. This Click board™ is suitable for medical remote diagnostic equipment applications, such as disposable patches used for blood oxygen saturation (SpO2) and electrocardiogram (ECG) measurement.

ECG/GSR Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	Biometrics
Applications	Can be used for medical remote diagnostic equipment applications, such as disposable patches used for blood oxygen saturation (SpO2) and electrocardiogram (ECG) measurement.
On-board modules	AS7030B - vital sign sensor based on Photoplethysmography (PPG) and Electrocardiogram (ECG) operations from AMS-AG
Key Features	Low-noise analog front end, synchronized PPG, ECG and GSR acquisition, blood pressure measurements, good HRM quality, temperature sensing using NTC, long operating period, and more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[ECG/GSR click 2D and 3D files](#)

[AP7331 datasheet](#)

[AS7030B datasheet](#)

[ECG/GSR click schematic](#)

[ECG/GSR click example on Libstock](#)

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