

## PWR Meter 3 Click



PID: MIKROE-5510

**PWR Meter 3 Click** is a compact add-on board that measures voltage and current through the connected load. This board features the [ACS37800](#), an I2C-configurable power monitoring solution from [Allegro MicroSystems](#), which simplifies the addition of power monitoring to many AC/DC powered systems. The ACS37800's Hall-effect-based current sensing technology achieves reinforced isolation ratings (4800 VRMS) alongside a reliable  $\pm 90A$  bidirectional current sensing. It also has two LED indicators for the realization of visual detection of some anomalies in operation, such as under/overvoltage and fast overcurrent fault detection. This Click board™ is suitable for many monitoring applications, such as power metering in information and communication equipment, embedded electronic applications, and similar.

PWR Meter 3 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	Measurements
Applications	Can be used for power metering in information and communication equipment, embedded electronic applications, and more
On-board modules	ACS37800 - power monitoring solution from Allegro MicroSystems
Key Features	High accuracy power monitoring for AC and DC applications, certified for high reinforced isolation, Hall-effect based, anomaly detection, I2C interface, user-programmable thresholds, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[PWR Meter 3 click example on Libstock](#)

[PWR Meter 3 click 2D and 3D files](#)

[PWR Meter 3 click schematic](#)

[ACS37800 datasheet](#)

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).