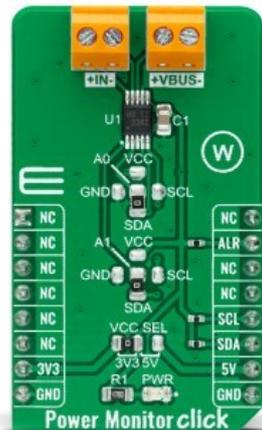


Power Monitor Click



PID: MIKROE-4810

Power Monitor Click is a compact add-on board that represents an ultra-precise power monitoring solution. This board features the INA228, a digital power monitor with a 20-bit delta-sigma ADC specifically designed for current-sensing applications from Texas Instruments. The INA228 reports current, bus voltage, temperature, power, energy, and charge accumulation while employing a precision $\pm 0.5\%$ integrated oscillator, all while performing the needed calculations in the background. It can measure a full-scale differential input of $\pm 163.84\text{mV}$ or $\pm 40.96\text{mV}$ across a resistive shunt sense element, with common-mode voltage support up to $+85\text{V}$. This Click board™ is suitable for current-sensing applications in DC-DC converters, power inverters, telecom equipment, industrial measurements, and many more.

Power Monitor 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	Power Switch
Applications	Can be used for current-sensing applications in DC-DC converters, power inverters, telecom equipment, industrial measurements, and many more
On-board modules	INA228 - ultra-precise digital power monitor with a 20-bit delta-sigma ADC and I2C digital interface from Texas Instruments
Key Features	High resolution, current and power monitoring accuracy, energy and charge accuracy, fast alert response, wide common-mode voltage range, shunt full-scale differential range, integrated temperature sensor, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V, External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[Power Monitor click example on Libstock](#)

[Power Monitor click 2D and 3D files](#)

[INA228 datasheet](#)

[Power Monitor click schematic](#)

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).