

PAC1720 Click



PID: MIKROE-4905

PAC1720 Click is a compact add-on board that contains an energy monitoring solution. This board features the PAC1720, an I2C configurable dual high-side bidirectional current sensing monitor with precision voltage measurement capabilities from Microchip Technology. The PAC1720 measures the voltage developed across external sense resistors to represent the high-side current of a battery or voltage regulator. They also measure the SENSE+ pin voltage and use these estimated values to present a proportional average power calculation. The current sensing feature includes fault protection, where during a fault condition, the ALERT pin can be asserted or masked. This Click board™ performs power calculations enabling energy monitoring in industrial and embedded applications, power management systems, and many more.

PAC1720 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 perform power calculations enabling energy monitoring in industrial and embedded applications, power management systems, and many more
On-board modules	PAC1720 - dual bidirectional high-side current-sensing device with precision voltage measurement capabilities from Microchip Technology
Key Features	Dual high-side bidirectional current sensor, power calculation, programmable sense voltage range, fault event indicator, I2C interface with selectable address, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[PAC1720 click 2D and 3D files](#)

[PAC1720 datasheet](#)

[PAC1720 click example on Libstock](#)

[PAC1720 click schematic](#)

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