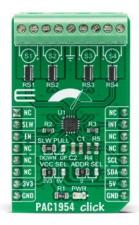


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PAC1954 Click





PID: MIKROE-4291

PAC1954 Click is a compact add-on board that contains an energy monitoring solution. This board features the PAC1954, a four-channel DC power/energy monitor from Microchip Technology. It uses real-time calibration to minimize offset and gain errors with no input filters required for this device. One major feature of the PAC1954 design is a set of digital comparators that allows the user to detect over/under voltage, over/undercurrent, and overpower against user-programmed limits for each channel and generate an alert when the threshold is exceeded. This Click board™ performs power calculations and energy accumulation, enabling energy monitoring with integration periods up to one year or longer.

DC Motor 17 Click is supported by a $\frac{\text{mikroSDK}}{\text{compliant library}}$, which includes functions that simplify software development. This $\frac{\text{Click board}^{TM}}{\text{comes}}$ comes as a fully tested product, ready to be used on a system equipped with the $\frac{\text{mikroBUS}^{TM}}{\text{comes}}$ 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.





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Specifications

Туре	Measurements
Applications	This Click board™ performs power calculations and energy accumulation, enabling energy monitoring with integration periods up to one year or longer.
On-board modules	PAC1954 - four-channel energy monitoring solution with bus voltage monitors and current sense amplifiers that feed high-resolution ADCs from Microchip Technology
Key Features	High-side current monitor, real-time auto- calibration of offset and gain errors for voltage and current, 1% power measurement accuracy over a wide dynamic range, alert feature, 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

PAC1954 click 2D and 3D files

PAC1954 click schematic

PAC1954 click example on Libstock

PAC1954 datasheet

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