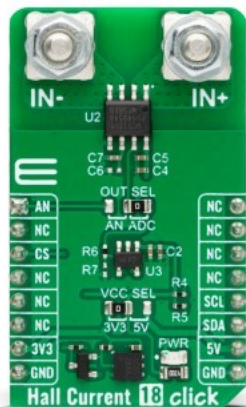


Hall Current 18 Click



PID: MIKROE-5832

Hall Current 18 Click is a compact add-on board that contains a precise solution for AC/DC current sensing. This board features the [MCS1806](#), an isolated Hall-effect current sensor from [MPS](#). The sensor is immune to external magnetic fields via differential sensing and has no magnetic hysteresis. The MCS1806 features galvanic isolation between the pins of the primary conductive path and the sensor leads, allowing it to replace optoisolators and other isolation devices. This Click board™ makes the perfect solution for the development of multi-phase inverters, motor controls, automotive systems, load detection and management, and more.

Step Down 10 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets Hall Current 18 Click apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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	Current sensor
Applications	Can be used for the development of multi-phase inverters, motor controls, automotive systems, load detection and management, and more
On-board modules	MCS1806- isolated Hall-effect current sensor from MPS
Key Features	Immune to external magnetic fields via differential sensing, 3KVRMS minimum isolation voltage, good accuracy, adjustable bandwidth, output proportional to AC or DC currents, factory-trimmed accuracy, and more
Interface	I2C
ClickID	Yes
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™](#)

[ClickID](#)

Downloads

[Hall Current 18 click 2D and 3D files](#)

[MCS1806 datasheet](#)

[MCP3221 datasheet](#)

[Hall Current 18 click schematic](#)

[Hall Current 18 click example on Libstock](#)

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