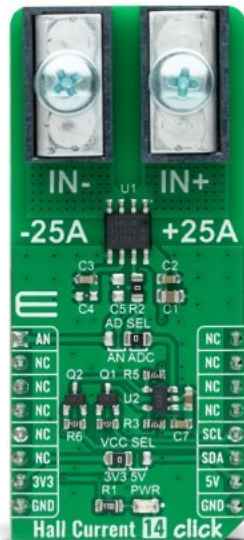


Hall Current 14 Click



PID: MIKROE-5239

Hall Current 14 Click is a compact add-on board that contains a precise solution for AC/DC current sensing. This board features the MCS1801, a fully integrated Hall-effect-based isolated linear current sensor designed for the current range of $\pm 25A$ from Monolithic Power Systems (MPS). The galvanic isolation between the pins of the primary copper conductive path and the sensor leads allows the MCS1801 to replace optoisolators or other isolation devices. Applied current flowing through this copper conduction path generates a magnetic field that the differential Hall sensors convert into a proportional voltage, where after that, the user is given the option to process the output voltage as an analog or digital value. This Click board™ is ideal for applications requiring a combination of high-current monitoring and high isolation voltage between the primary high-current and low-voltage sides.

Hall Current 14 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	Current sensor
Applications	Can be used for applications requiring a combination of high-current monitoring and high isolation voltage between the primary high-current and low-voltage sides
On-board modules	MCS1801 - linear Hall-effect current sensor for AC or DC current sensing from Monolithic Power Systems (MPS)
Key Features	Output voltage proportional to AC or DC currents, ratiometric output from supply voltage, high reliability, factory-trimmed for accuracy, possibility of signal processing in analog and digital form, immune to external magnetic fields by differential sensing, and more
Interface	Analog,I2C
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)

Downloads

[Hall Current 14 click example on Libstock](#)
[MCP3221 datasheet](#)
[MCS1801 datasheet](#)
[Hall Current 14 click 2D and 3D files](#)
[Hall Current 14 click schematic](#)

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