

Hall Current 9 Click



PID: MIKROE-4466

Hall Current 9 Click is a compact add-on board that contains the coreless current sensor corresponding to the safety standards. This board features the CQ3301, a high-speed response coreless current sensor using a Hall sensor that outputs the analog voltage proportional to the AC/DC from [AKM Semiconductor](#). It employs a high sensitive InAs Hall element with the ability to detect both DC and AC with high accuracy and high speed. It has an ultra-fast high response of 0.5 μ sec, high galvanic isolation, and it is designed for the currents to range from 4.5A to \pm 44A. This Click board™ is suitable for overcurrent applications and shows good performance in small-sized inverter applications.

Hall Current 9 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,Measurements
Applications	Can be used for overcurrent applications and shows good performance in small-sized inverter applications.
On-board modules	CQ3300 - high-speed response coreless current sensor using a Hall sensor that outputs the analog voltage proportional to the AC/DC from AKM Semiconductor MCP3221 - successive approximation A/D converter with a 12-bit resolution from Microchip
Key Features	Low power consumption, high precision, highly sensitive quantum well structure InAs Hall element, characterized by the ability to detect both DC and AC with high accuracy and high speed, and more.
Interface	Analog,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Hall Current 9 click schematic](#)

[MCP3221 datasheet](#)

[Hall Current 9 click 2D and 3D files](#)

[CO3300 datasheet](#)

[Hall Current 9 click example on Libstock](#)

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