

Current 9 Click



PID: MIKROE-5319

Current 9 Click is a compact add-on board providing a precise and accurate current sensing solution. This board features the [CT415-HSN830DR](#), high-bandwidth and ultra-low-noise XtremeSense® TMR current sensor designed for the current range up to 30A from [Crocus Technology](#). This sensor also features an integrated current-carrying conductor which handles rated current and generates a current measurement as a linear analog output voltage, accomplishing a total output error of about $\pm 1\%$ full-scale. After that, the user is allowed to process the output voltage in analog or digital form. This Click board™ is ideal for high-accuracy current measurements for many consumer, enterprise, and industrial applications.

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 many consumer, enterprise, and industrial applications
On-board modules	CT415-HSN830DR - XtremeSense® TMR current sensor from Crocus Technology
Key Features	Low power consumption, integrated current carrying conductor, low total error output, high bandwidth, fast response time, high accuracy and precision, possibility of signal processing in analog and digital form, and more
Interface	Analog,I2C
ClickID	No
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

[MCP3221 datasheet](#)

[CT415-HSN830DR datasheet](#)

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

[Current 9 click schematic](#)

[Current 9 click example on Libstock](#)

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