

Current 3 Click



PID: MIKROE-4203

Current 3 Click is a compact add-on board for applications like current sense and dual temperature monitor. This board features the [EMC1702](#), a combination of the high-side current sensing device with a precision temperature measurement function from [Microchip](#). The EMC1702 measures the voltage developed across a sense resistor to represent the high-side current of a battery or voltage regulator, and it contains additional bidirectional peak detection circuitry to flag instantaneous current spikes with programmable time duration and magnitude threshold. Also includes an external diode channel for temperature measurement as well as an internal diode for ambient temperature measurements. This Click board™ is suitable for embedded, industrial, and power management systems applications.

Current 3 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	Measurements
Applications	Can be used for embedded, industrial, and power management systems applications.
On-board modules	Current 3 Click is based on the EMC1702, a combination of the high-side current sensing device with a precision voltage and temperature measurement capabilities from Microchip.
Key Features	High-side current sensor, temperature monitoring, hardware set peak detector, accuracy, and more.
Interface	I2C
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

[Current 3 click example on Libstock](#)

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

[EMC1702 datasheet](#)

[Current 3 click schematic](#)

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