

# Current Sens 2 Click



PID: MIKROE-6018

**Current Sens 2 Click** is a compact add-on board designed for precise current measurements in industrial applications. This board features the HO 10-P, an AC/DC current transducer from LEM USA. The HO 10-P offers galvanic isolation and reliable measurement of DC, AC, and pulse currents up to 10ARMS. Its open-loop Hall effect measuring principle ensures accurate readings, with sensitivity adjustable in three scenarios for enhanced versatility. Ideal for AC variable speed drives, UPS systems, SMPS, and power supplies for welding, the Current Sens 2 Click is made for dynamic and demanding environments where low power consumption and high immunity to external interference are paramount.

Current Sens 2 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 this [Click board™](#) 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	Ideal for AC variable speed drives, UPS systems, SMPS, and power supplies for welding
On-board modules	HO 10-P - AC/DC current transducer from LEM USA
Key Features	Nominal RMS current up to 10A, AC/DC/pulse current measurement, sensitivity adjustments, galvanic isolation, open-loop Hall effect based, analog output, overcurrent detection, and more
Interface	Analog
ClickID	Yes
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™](#)

[ClickID](#)

## Downloads

[Current Sens 2 click example on Libstock](#)

[Current Sens 2 click 2D and 3D files v100](#)

[HO 10-P datasheet](#)

[Current Sens 2 click schematic v100](#)

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