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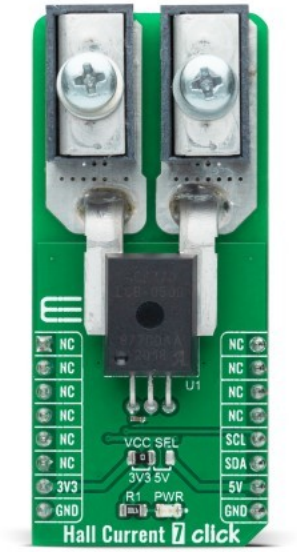
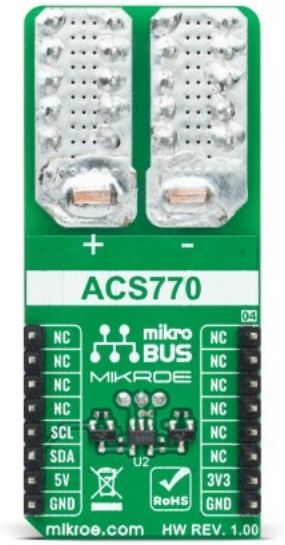
Hall Current 7 Click





PID: MIKROE-4420

Hall Current 7 Click is a compact add-on board that provides economical and precise solutions for AC or DC current sensing. This board features the ACS770, a thermally enhanced, fully integrated, Hall effect-based high precision linear current sensor with 100µΩ current conductor from Allegro MicroSystems. Applied current flows directly into the integrated conductor generating a magnetic field, and an integrated low-hysteresis core concentrates the magnetic field sensed by the Hall element with a typical accuracy of ±1% and 120 kHz bandwidth. This Click board™ is suitable for applications like motor control, load detection and management, DC-to-DC converter control, and similar applications that require accurate and reliable current sensing.

Hall Current 7 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.

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Specifications

Type	Current sensor
Applications	Can be used for applications like motor control, load detection and management, DC-to-DC converter control, and similar applications that require accurate and reliable current sensing.
On-board modules	Hall Current 7 Click is based on the ACS770, a thermally enhanced, fully integrated, Hall effect-based high precision linear current sensor with 100μΩ current conductor from Allegro MicroSystems.
Key Features	Ultralow-power loss, high precision, improved total output error, high reliability, high accuracy, extremely stable output offset voltage, and more.
Interface	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 7 click 2D and 3D files

ACS770 datasheet

Hall Current 7 click example on Libstock

Hall Current 7 click schematic

MCP3221 datasheet

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