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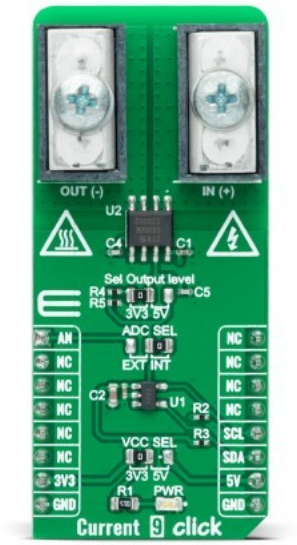
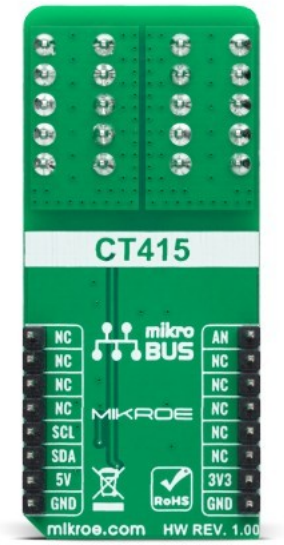
# Current 9 Click




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 ±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.

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# Specifications

| Type | 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 |
| 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