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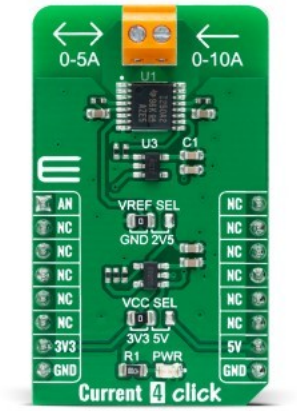
Current 4 Click



PID: MIKROE-4755

Current 4 Click is a compact add-on board that provides a precise and accurate current sensing solution. This board features the INA250, a bidirectional, zero-drift current-shunt monitor from Texas Instruments. This voltage-output, current-sensing amplifier measures the voltage developed across the internal current-sensing resistor when current passes through it. Also, by selecting the reference voltage, the INA250 allows users to measure both unidirectional and bidirectional currents through the current-sensing resistor. This Click board™ delivers higher performance to applications such as test and measurement, load monitoring and power supplies, automotive, and many more.

Current 4 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,Measurements
Applications	Can be used for applications such as test and measurement, load monitoring and power supplies, automotive, and many more
On-board modules	INA250 - current-sense amplifier with a high-precision, low-drift shunt resistor which can deliver highly accurate measurements over a wide temperature range from Texas Instruments
Key Features	Low power consumption, precise integrated shunt resistor, high accuracy, 500mV/A gain, zero-drift, uni/bidirectional current measurements, and more
Interface	Analog
ClickID	No
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

AP7331 datasheet

LMV321 datasheet

INA250 datasheet

Current 4 click 2D and 3D files

Current 4 click schematic

Current 4 click example on Libstock