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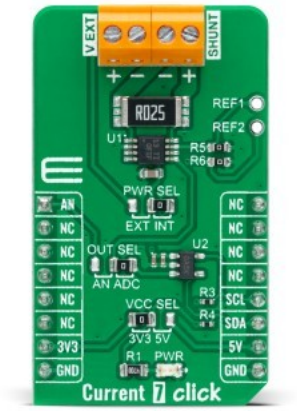
Current 7 Click



PID: MIKROE-4976

Current 7 Click is a compact add-on board providing a precise and accurate current sensing solution. This board features the INA282, a wide common-mode range, bidirectional, high-accuracy current shunt monitor from Texas Instruments. The INA282 represents a voltage output current shunt monitor that can sense drops across shunts at common-mode voltages from –14 V to +80 V, independent of the supply voltage, which operates in a range from 2.7V up to 18V supply. The zero-drift topology enables high-precision measurements with maximum input offset voltages as low as 70µV. Also, the user is allowed to process the output signal in analog or digital form. This Click board™ delivers higher performance to industrial control and automation applications, load and power supplies monitoring, telecom equipment, and many more.

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,Measurements
Applications	Can be used for industrial control and automation applications, load and power supplies monitoring, telecom equipment, and many more
On-board modules	INA381 - current-sensing amplifier from Texas Instruments
Key Features	Wide input common-mode range, low power consumption, bidirectional and unidirectional current sensing, high accuracy and precision, possibility of signal processing in analog and digital form, and more
Interface	Analog,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Current 7 click example on Libstock

Current 7 click 2D and 3D files

MCP3221 datasheet

INA282 datasheet

Current 7 click schematic