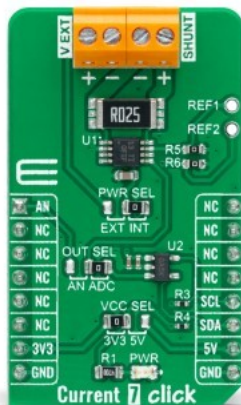


# Current 7 Click



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.

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,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](#)

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).