

VCP Monitor 4 Click



PID: MIKROE-4763

VCP Monitor 4 Click is a compact add-on board that represents a high-precision power monitoring system. This board features the INA239, ultra-precise digital power monitor with a 16-bit delta-sigma ADC specifically designed for current-sensing applications from Texas Instruments. The INA239 reports current, bus voltage, temperature, and power while performing the needed calculations in the background. The integrated temperature sensor is $\pm 1^{\circ}\text{C}$ accurate for die temperature measurement and is also helpful in monitoring the ambient system temperature. This Click board™ is suitable for applications such as industrial measurements, DC-DC converters, power inverters, telecom equipment, servers, and many more.

VCP Monitor 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.

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	Measurements
Applications	Can be used for applications such as industrial measurements, DC-DC converters, power inverters, telecom equipment, servers, and many more
On-board modules	INA239 - ultra-precise digital power monitor with a 16-bit delta-sigma ADC specifically designed for current-sensing applications from Texas Instruments
Key Features	Low power consumption, high precision, high resolution ADC, accuracy, fast alert response, programmable conversion time and averaging, and more
Interface	SPI
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

[VCP Monitor 4 click schematic](#)

[VCP Monitor 4 click 2D and 3D files](#)

[INA239 datasheet](#)

[VCP Monitor 4 click example on Libstock](#)

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