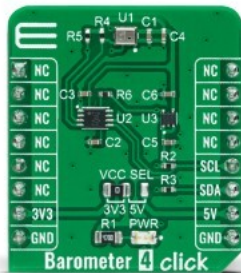


Barometer 4 Click



PID: MIKROE-4868

Barometer 4 Click is a compact add-on board used to measure air pressure in a specific environment. This board features the [ICP-10111](#), a high accuracy low power barometric and temperature sensor from [TDK InvenSense](#). The ICP-10111 is based on MEMS capacitive technology providing ultra-low noise at the lowest power, enabling industry-leading relative accuracy, sensor throughput, and temperature stability. It comes with a configurable host interface that supports I2C serial communication and measures pressure in a range from 30kPa up to 110kPa with an accuracy of $\pm 1\text{Pa}$ over a wide operating temperature range. This Click board™ is suited for various pressure-based applications, especially when low power consumption is required, home appliances such as airflow control in HVAC, water level detection, vertical velocity monitoring, weather forecasting, and many more.

Barometer 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	Pressure
Applications	Can be used for various pressure-based applications, especially when low power consumption is required, home appliances such as airflow control in HVAC, water level detection, vertical velocity monitoring, weather forecasting, and many more
On-board modules	ICP-10111 - an ultra-low power, low noise, digital output barometric pressure, and temperature sensor from TDK InvenSense
Key Features	Low power consumption, high precision, embedded temperature sensor, ultra-low noise, temperature stability, accuracy of $\pm 1\text{Pa}$ over a wide operating temperature range, also measure altitude differentials down to 8.5cm, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[Barometer 4 click example on Libstock](#)

[PCA9306 datasheet](#)

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

[ICP-10111 datasheet](#)

[BH18PB1WHFV datasheet](#)

[Barometer 4 click schematic](#)

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