

Barometer 5 Click



PID: MIKROE-4924

Barometer 5 Click is a compact add-on board used to measure air pressure in a specific environment. This board features the MS5637-02BA03, a high accuracy low voltage barometric and temperature sensor from TE Connectivity Measurement Specialties. The MS5637-02BA03 includes a high-linearity pressure sensor and an ultra-low-power 24-bit $\Delta\Sigma$ ADC with internal factory-calibrated coefficients, providing a precise digital 24-bit pressure and temperature value, and different operation modes allowing the user to optimize for conversion speed and current consumption. It comes with a configurable host interface that supports I2C serial communication and measures pressure in a range from 300mbar up to 1.2bar with an accuracy of ± 2 mbar over a wide operating temperature range. This Click board™ is suited for various pressure-based applications, especially when low power consumption is required.

Barometer 5 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
On-board modules	MS5637-02BA03 - high accuracy low voltage barometric and temperature sensor from TE Connectivity Measurement Specialties, to measure air pressure in a specific environment
Key Features	Low power consumption, high resolution and precision, embedded temperature sensor, temperature stability, accuracy of ± 2 mbar over a wide operating temperature range, also measure altitude of 13cm, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[MS5637-02BA03 datasheet](#)

[Barometer 5 click 2D and 3D files](#)

[Barometer 5 click schematic](#)

[Barometer 5 click example on Libstock](#)

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