

Altitude 6 Click



PID: MIKROE-4903

Altitude 6 Click is a compact add-on board that allows height measurement of an object or point related to sea level or ground level. This board features the [MS5611-01BA03](#), a high-resolution barometric pressure sensor optimized for altimeter applications with an altitude resolution of 10 cm from [TE Connectivity](#). It consists of a high linearity pressure sensor and an ultra-low power 24 bit $\Delta\Sigma$ ADC with internal factory calibrated coefficients. Also, it provides a precise digital 24-bit pressure and temperature value, different operation modes, and a configurable host interface that supports both SPI and I2C serial communication allowing the user to optimize for conversion speed and current consumption. The high accuracy and stability of both pressure and temperature signal of the MS5611-01BA03 make this Click board™ suitable for height sensing in medical and consumer applications, indoor navigation, mobile altimeter or barometer systems, and many more.

Altitude 6 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 height sensing in medical and consumer applications, indoor navigation, mobile altimeter or barometer systems, and many more
On-board modules	MS5611-01BA03-50 - high-resolution barometric pressure sensor optimized for altimeter applications with an altitude resolution of 10 cm from TE Connectivity
Key Features	Low power consumption, high precision and resolution, integrated digital pressure sensor (24 bit $\Delta\Sigma$ ADC), excellent long-term stability, and many more
Interface	I2C,SPI
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

[Altitude 6 click schematic](#)

[Altitude 6 click 2D and 3D files](#)

[Altitude 6 click example on Libstock](#)

[MS5611-01BA03 datashhet](#)

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