

Altitude 4 Click



PID: MIKROE-4127

Altitude 4 Click introduces an absolute pressure sensor with digital output for low-cost applications labeled as NPA-201. Altitude 4 click employs a MEMS pressure sensor with a signal-conditioning IC to provide accurate pressure measurements from 260 to 1260 mBar. Measurement values are provided at the digital output pins through an I2C interface. This sensor provides NPA-201 Digital Output Absolute Pressure Sensor provides low power consumption and compact size, making it ideal for battery-powered and mobile applications or any application where size is a constraint. In today's growing market for portable electronics and wearables with multiple parameters being measured, many applications require an accurate measurement of barometric pressure to determine factors such as altitude.

Altitude 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	Altitude, Pressure
Applications	Pressure sensor for mobile devices, indoor and outdoor navigation, enhancement of GPS navigation, altimeter and barometer for portable devices, weather station equipment, leisure and sports, Hard Disk Drive (HDD), weather forecast.
On-board modules	Altitude 4 Click uses the NPA-201 IC, an absolute pressure sensor with digital output for low-cost applications, from Amphenol Advanced Sensors.
Key Features	Barometric pressure sensing applications for sports activity identification, mobile indoor/outdoor navigation, altitude-hold and stabilization in drones, and other
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

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

[NPA-201 datasheet](#)

[Altitude 4 click example on Libstock](#)

[Altitude 4 click schematic](#)

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