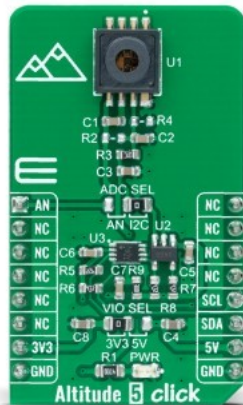


Altitude 5 Click



PID: MIKROE-4875

Altitude 5 Click is a compact add-on board allowing high-resolution barometric pressure measurement. This board features the KP236, an analog barometric air pressure sensor based on a capacitive principle from Infineon Technologies. The KP236 is primarily developed for measuring barometric air pressure but can also be used in other application fields. It is surface micro-machined with a monolithic integrated signal conditioning circuit implemented in BiCMOS technology. The calibrated transfer function converts pressure into an analog output signal in a range of 40kPa to 115kPa. However, the choice of signal processing is up to the user; more precisely, the user can process the output signal in analog or digital form. The high accuracy and the high sensitivity of the KP236 make this Click board™ suitable for advanced automotive applications and industrial and consumer applications.

Altitude 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 advanced automotive applications and industrial and consumer applications
On-board modules	KP236 - high-resolution analog barometric air pressure sensor based on a capacitive principle from Infineon Technologies
Key Features	High precision pressure measurements, high accuracy, automotive qualified, wide temperature range, possibility of signal processing in analog and digital form, and more
Interface	Analog,I2C
ClickID	No
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

[MCP3221 datasheet](#)

[KP236 datasheet](#)

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

[Altitude 5 click schematic](#)

[Altitude 5 click example on Libstock](#)

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