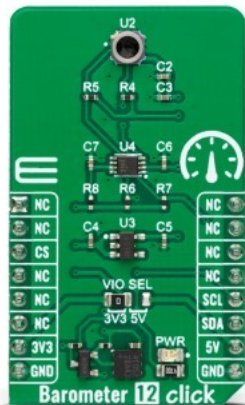


Barometer 12 Click



PID: MIKROE-5775

Barometer 12 Click is a compact add-on board that measures air pressure in a specific environment. This board features the ICP-10125, a high-accuracy, low-power, 10-atm waterproof barometric pressure and temperature sensor from [TDK InvenSense](#). It has a normal pressure operating range from 95 to 105kPa (extended from 30 to 110kPa) and a maximum temperature operating range from -40 to 85°C. The sensor comes in a chimney package with waterproofing gel providing IPx8 waterproofing at 10atm. This Click board™ makes the perfect solution for the development of sports and fitness activity monitoring applications, altimeters, and barometers for portable devices, indoor/outdoor navigation, and more.

Barometer 12 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 the development of sports and fitness activity monitoring applications, altimeters, and barometers for portable devices, indoor/outdoor navigation, and more
On-board modules	ICP-10125 - barometric pressure and temperature sensor from TDK InvenSense
Key Features	Low power consumption, good relative pressure, and temperature accuracy, low noise, IPx8 waterproof to 10atm, small footprint, measure differentials of altitude as small as 8.5cm, ideal for battery-powered applications, and more
Interface	I2C
ClickID	Yes
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

[PCA9306 datasheet](#)

[AP2112 datasheet](#)

[Barometer 12 click 2D and 3D files](#)

[Barometer 12 click schematic](#)

[ICP-10125 datasheet](#)

[Barometer 12 click example on Libstock](#)

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