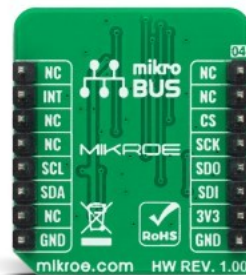
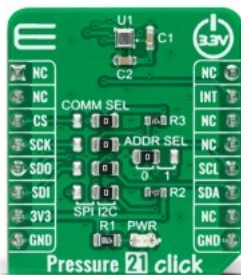


Pressure 21 Click



PID: MIKROE-5274

Pressure 21 Click is a compact add-on board that contains a board-mount pressure sensor. This board features the [BMP581](#), an absolute barometric pressure sensor from [Bosch Sensortec](#). The BMP581 provides a relative accuracy of $\pm 6\text{Pa}$ and typical absolute accuracy of $\pm 30\text{Pa}$ with ultra-low noise, low power consumption, and temperature stability alongside programmable output: temperature-only or both pressure and temperature (pressure-only is not supported). It converts output data into a 24-bit digital value and sends the information via a configurable host interface that supports SPI and I2C serial communications. It measures pressure from 30kPa up to 125kPa over a wide operating temperature range. This Click board™ is suited for various pressure-based applications, industrial, consumer, weather stations, and more.

Pressure 21 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, industrial, consumer, weather stations, and more
On-board modules	BMP581 - digital barometric pressure and temperature sensor from Bosch Sensortec
Key Features	Low power consumption, high performance, improved temperature stability, programmable output and noise performance, programmable interrupt, selectable interface, and more
Interface	I2C,SPI
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

[Pressure 21 click example on Libstock](#)

[BMP581 datasheet](#)

[Pressure 21 click 2D and 3D files](#)

[Pressure 21 click schematic](#)

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