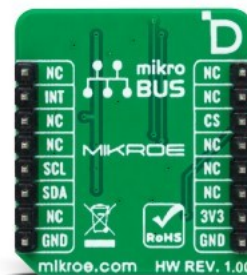


Barometer 10 Click



PID: MIKROE-5601

Barometer 10 Click is a compact add-on board that measures air pressure in a specific environment. This board features the [LPS28DFW](#), an ultra-compact piezoresistive absolute pressure sensor that functions as a digital output barometer from [STMicroelectronics](#). The LPS28DFW comprises a sensing element and an IC chip for signal processing in one package, converts pressure into a 24-bit digital value, and sends the information via I2C serial interface. It has a selectable dual full-scale absolute pressure range of up to 1260hPa and 4060hPa, with an absolute pressure accuracy of 0.5hPa over a wide operating temperature range. This Click board™ is suitable for various pressure-based industrial, consumer, weather stations, and more applications.

Barometer 10 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 industrial, consumer, weather stations, and more applications
On-board modules	LPS28DFW - dual full-scale absolute pressure sensor from STMicroelectronics
Key Features	Low power consumption, selectable dual full-scale absolute pressure range, low pressure sensor noise, high-performance, embedded temperature compensation, extended temperature range, embedded FIFO, interrupt function, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[Barometer 10 click 2D and 3D files](#)

[LPS28DFW datasheet](#)

[Barometer 10 click schematic](#)

[Barometer 10 click example on Libstock](#)

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