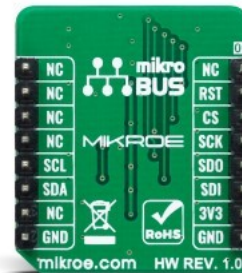


Barometer 6 Click



PID: MIKROE-4978

Barometer 6 Click is a compact add-on board used to measure air pressure in a specific environment. This board features the 2SMPB-02E, a high-accuracy digital barometric air pressure sensor with low current consumption from [Omron Electronics](#). The 2SMPB-02E has a calibration parameter for broader pressure and temperature range, features a MEMS chip for sensing air pressure and an IC chip for signal processing. It converts pressure 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 110kPa with an accuracy of $\pm 50\text{Pa}$ over a wide operating temperature range. This Click board™ is suited for various pressure-based applications, industrial, consumer, weather stations, and many more.

Barometer 6 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 many more |
| On-board modules | 2SMPB-02E - high-accuracy digital barometric air pressure sensor with low current consumption from Omron Electronics |
| Key Features | Low power consumption, high precision, measure barometric pressure and temperature with high accuracy, selectable interface, and more |
| Interface | I2C,SPI |
| 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

[2SMPB-02E datasheet](#)

[Barometer 6 click 2D and 3D files](#)

[Barometer 6 click schematic](#)

[Barometer 6 click example on Libstock](#)

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