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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 ±50Pa 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).

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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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