MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
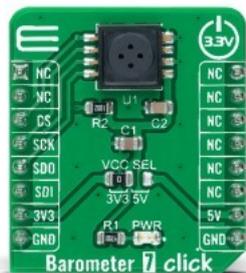Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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Barometer 7 Click

PID: MIKROE-4913

Barometer 7 Click is a compact add-on board used to measure air pressure in a specific environment. This board features the KP264XTMA1, a high-accuracy digital barometric air pressure sensor based on a capacitive principle from Infineon Technologies. The KP264XTMA1 is surface micromachined with a monolithic integrated signal conditioning circuit implemented in BiCMOS technology that converts pressure into a 10-bit digital value and sends the information via the SPI interface. It measures pressure from 40kPa up to 115kPa with an accuracy of ±1.5kPa over a wide operating temperature range. This Click board™ is suited for various pressure-based applications, industrial, consumer, weather stations, and many more.

Barometer 7 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.

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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	KP264XTMA1 - high-accuracy digital barometric air pressure sensor from Infineon Technologies
Key Features	Low power consumption, high accuracy, integrated temperature sensor, 10-bit pressure and temperature resolution, self-diagnosis features, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[Barometer 7 click 2D and 3D files](#)

[KP264XTMA1 datasheet](#)

[Barometer 7 click schematic](#)

[Barometer 7 click example on Libstock](#)