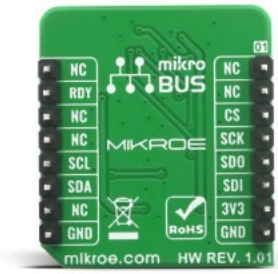
MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

Pressure 10 Click



PID: MIKROE-4142

Pressure 10 Click features a digital interface barometric pressure sensor, based on piezoresistive bridge, labeled as HSPPAD042A, from ALPS Electric. It can use both SPI and I2C communication protocols, allowing it to be interfaced with a broad range of MCUs. Besides the pressure readings, this Click board™ also offers very accurate temperature reading, which is required for the pressure readings compensation and can be used in a wide range of battery-powered and portable applications thanks to its very low power consumption. In addition, this product supports averaging and filtering for lower noise, and FIFO function. All these features make the Pressure 10 Click an ideal solution for the development of portable weather station applications, indoor navigation, altitude control for drones, and similar applications that rely on barometric pressure measurements.

Pressure 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.

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Specifications

Type	Pressure
Applications	An ideal solution for the development of portable weather station applications, indoor navigation, altitude control for drones, and similar applications that rely on barometric pressure measurements.
On-board modules	Pressure 10 Click uses the HSPPAD042A IC, a digital pressure sensor, from ALPS ELECTRIC.
Key Features	Industry-lowest current consumption, 300 hPa to 1100 hPa range, temperature reading, averaging, noise filtering, FIFO function.
Interface	GPIO,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

Pressure 10 click example on Libstock

Pressure 10 click 2D and 3D files

HSPPAD042A datasheet

Pressure 10 click schematic