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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





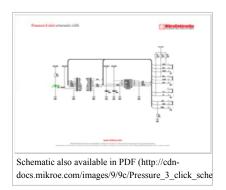


Pressure 3 click

From MikroElektonika Documentation

Pressure 3 click carries an Infineon DPS310 digital barometric pressure sensor.

Features and usage notes



Pressure 3 click has an operating range from 300 to 1200 hPa with a relative accuracy of 0.06 hPa and absolute accuracy of 1 hPa. DPS310 is a fast sensor with typical measurement time of 27.6 ms for standard mode, down to 3.6 ms in low precision mode.

DPS310 integrates a FIFO (First In First Out) buffer that can store the last 32 measurumenets. Using the buffer saves power because the target MCU doesn't have to constantly poll for resources.

The sensor is callibrated. Callibration coefficients are used to compensate the measurement results. The data sheet contains detailed instructions on how to convert compensated results to pressure and

temperature values.

The digital measurements are in 24-bit resolution.

Pressure 3 click has both I2C and SPI outputs. The four interface configuration buttons are soldered to mikroBUSTM I2C pins by default. Additionally, there is an Interrupt pin that can be triggered whenever a new measurement is available or if a FIFO buffer is full.

The click uses a 3.3V power supply.

Pressure 3 click



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IC/Module Microchip Infineon DPS310

(http://www.infineon.com/dgdl/Infineon-DPS310+Pressure+Sensor-PB-v01_00-

EN.pdf?

SPI, I2C, INT

fileId=5546d462525dbac40152b0a05ad74d56)

Power 3.3V

supply

Interface

Website www.mikroe.com/click/pressure-3

(http://www.mikroe.com/click/pressure-3)

Programming

This snippet initializes all necessary pins and functions for using Pressure 3 Click, and performs a test by writing test values to the click, and then reading them back to the user through UART communication.

Code examples that demonstrate the usage of Pressure 3 click with MikroElektronika hardware, written for mikroC for ARM, AVR, dsPIC, FT90x, PIC and PIC32 are available on Libstock (http://libstock.mikroe.com/projects/view/1897/pressure-3-click-example).

Resources

 $- data \ sheet \ (http://www.infineon.com/dgdl/Infineon-DPS310+Pressure+Sensor-PB-v01_00-EN.pdf? fileId=5546d462525 dbac40152b0a05 ad74d56)$

- $Pressure\ 3\ click\ examples\ on\ Libstock\ (http://libstock.mikroe.com/projects/view/1897/pressure-3-click-example)$
- $-\ mikroBUS\ standard\ specifications\ (http://download.mikroe.com/documents/standards/mikrobus-standard-specification-v200.pdf)$