# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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

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## **Manometer click**

From MikroElektonika Documentation

**Manometer click** carries a piezoresistive silicon pressure sensor – a Honeywell HSCMAND060PA3A3 module with industry-leading, extremely high accuracy of  $\pm 0.25\%$ FSS BFSL. An absolute pressure range from 0 to 60 PSI makes it suitable for a variety applications. Beyond the measurement range, the sensor has a high burst pressure threshold, resulting in increased reliability. Manometer click communicates with the target board MCU through the mikroBUS<sup>TM</sup> I2C interface (SCL, SDA). Manometer click uses a 3.3V power supply.

#### Features and usage notes



The following code snippet shows how our library simplifies the usage of Manometer click.

```
1 #include "manometer_hw,h"
2 void main()
3 {
4 float pressure, temp;
5 int count = 0;
6 TWI_Init(100000);
7 manometer_init(MANOMETER_ADDRESS_TYPE_3, 0, 60);
8 pressure = manometer_get_pressure();
9 temp = manometer_get_cemp(CELSIUS);
10 if(pressure > 45 & & temp > 35)
11 count++;
12 }
```

Code examples that demonstrate the usage of Manometer 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/1781/manometer-click).

### Resources

- learn.mikroe.com/industrial-solution-pressures/)

- HSCMAND060PA3A3 data sheet (http://sensing.honeywell.com/honeywell-sensing-trustability-hsc-series-high-accuracy-board-mount-pressure-sensors-50099148-a-en.pdf?name=HSCMAND060PA3A3)

- Manometer click examples on Libstock (http://libstock.mikroe.com/projects/view/1781/manometer-click)

- mikroBUS standard specifications (http://download.mikroe.com/documents/standards/mikrobus/mikrobus-standard-specification-v200.pdf)

Retrieved from "http://docs.mikroe.com/index.php?title=Manometer\_click&oldid=365"

Manometer click

Interface

Power

supply

Website

I2C (SCL, SDA)

www.mikroe.com/click/manometer

(http://www.mikroe.com/click/manometer)

3.3V

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