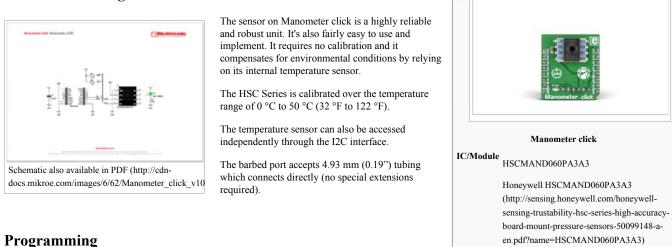
Manometer click

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 mikroBUSTM 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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