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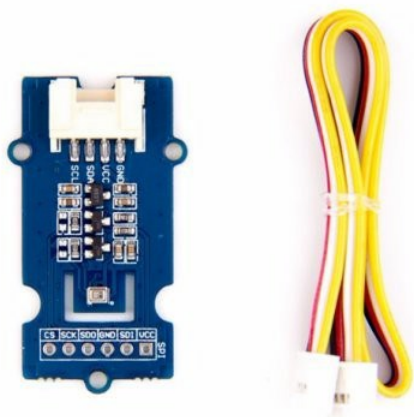
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Company Address

Arrow Electronics, Inc
9201 East Dry Creek Road
Centennial, CO 80112



Grove - Barometer Sensor (BMP280)

SKU 101020192



IN STOCK 27 Available

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Description

Thanks to Bosch, now we've got a high-precision environmental sensor at even lower cost, the [Grove - Barometer Sensor\(BMP280\)](#). It is based on their new BMP280 sensor, which is an upgraded version of the old BMP180 used in [Grove - Barometer Sensor \(BMP180\)](#). The module provides precise measurement of barometric pressure and temperature in the environment. The air pressure can be measured in a range from 300 hPa to 1100hPa with ± 1.0 hPa absolute accuracy. As for the temperature the sensor works perfectly for temperatures between - 40 and 85 with an accuracy of ± 1 .

Owing to its high accuracy on measuring the pressure, and the pressure changes with altitude, we can calculate the altitude with ± 1 meter accuracy, which makes it a precise altimeter as well. Another great thing about this module is that, you don't even need to worry about the I2C collisions as it provides both I2C and SPI interfaces. To use SPI, simply de-solder the bonding pads on the back. If you go with I2C, the board also provides 2 I2C addresses for you to select as you want.

Note: As the sensor is quite sensitive to the environmental conditions, please **DO NOT** touch it with your fingers.

Features

- High accuracy, absolute accuracy of ± 1.0 hPa for pressure measurement and ± 1 accuracy for temperature measurement
- Easy-to-use Grove Compatible Interface
- Supports both I2C and SPI communication
- Can be used as an altimeter with accuracy of ± 1 meter

Specification

- Supply Voltage: 5V or 3.3V
- Current Consumption: 0.6 mA
- Barometric Pressure Measure
- • Range: 300 - 1100 hPa
- • Accuracy: ± 1.0 hPa
- Temperature Measurement
- • Range: -40 to 85
- • Accuracy: ± 1
- Interface: I2C and SPI
- Grove Port: I2C (selectable address at 0x77(default) and 0x76)
- Dimensions: 20mm x 40mm
- Weight: 3g

Documents

- For libraries and documents, please visit our [Wikipage](#).
- For technical discussion, please come to our [Forum](#).
- For projects that you would like to share with the community, please visit [Recipe](#).

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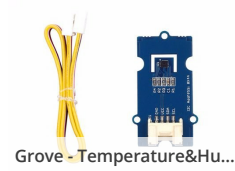
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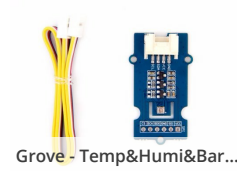
Grove - Sunlight Sensor



Base Shield V2



Grove - Temperature&Hu...



Grove - Temp&Humi&Bar...

Technical Details

| | |
|------------|----------------------|
| Dimensions | 130mm x 90mm x 8.5mm |
| Weight | G.W 10g |
| Battery | Exclude |

Documents

- [Wiki](#)

Questions and Answers

Have a question about this? Ask people who own it.

0

Is it for 3.3V or 5V ?

tonys on May 03,2017

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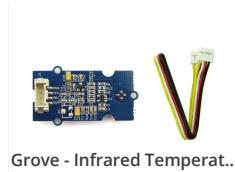
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Grove - Gas Sensor(MQ2)



Grove - Gas Sensor(MQ5)



Grove - Infrared Temperat...



Grove - Loudness Sensor

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