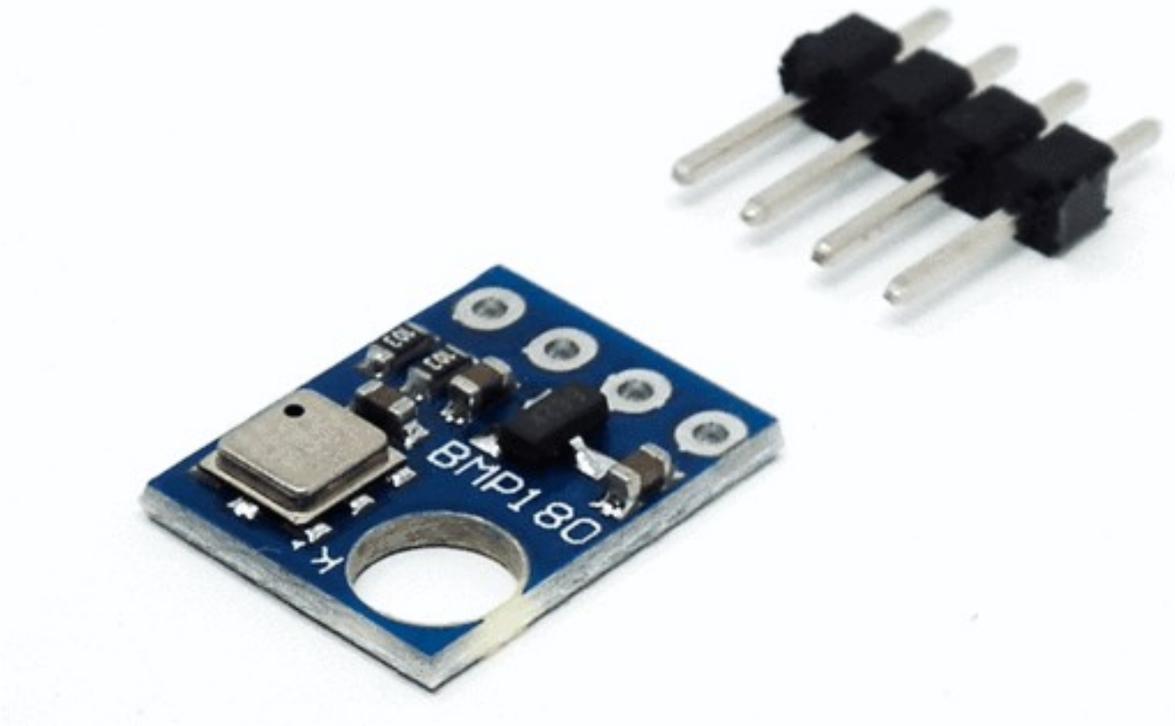


AZ-Delivery

Welcome!

Thank you very much for purchasing our AZ-Delivery BMP180 sensor. On the following pages, we will introduce you to how to use and setup this handy device.

Have fun!

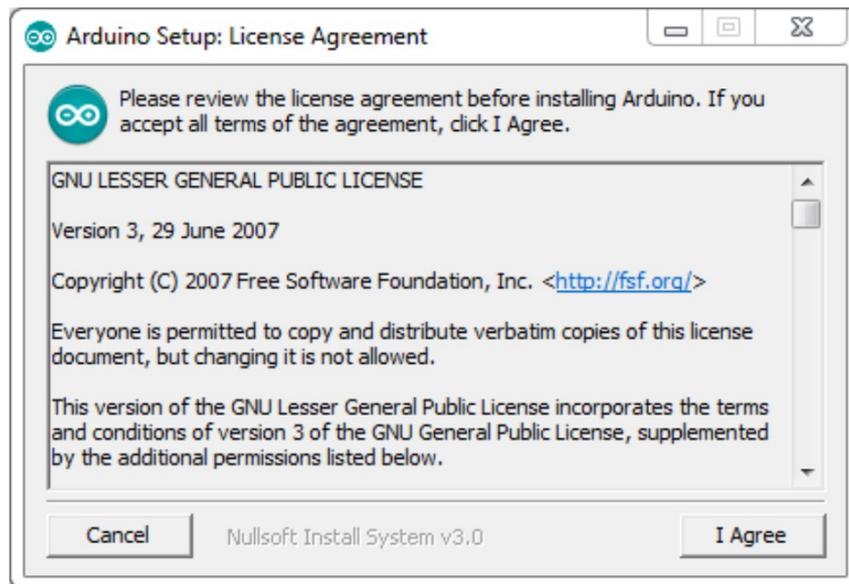


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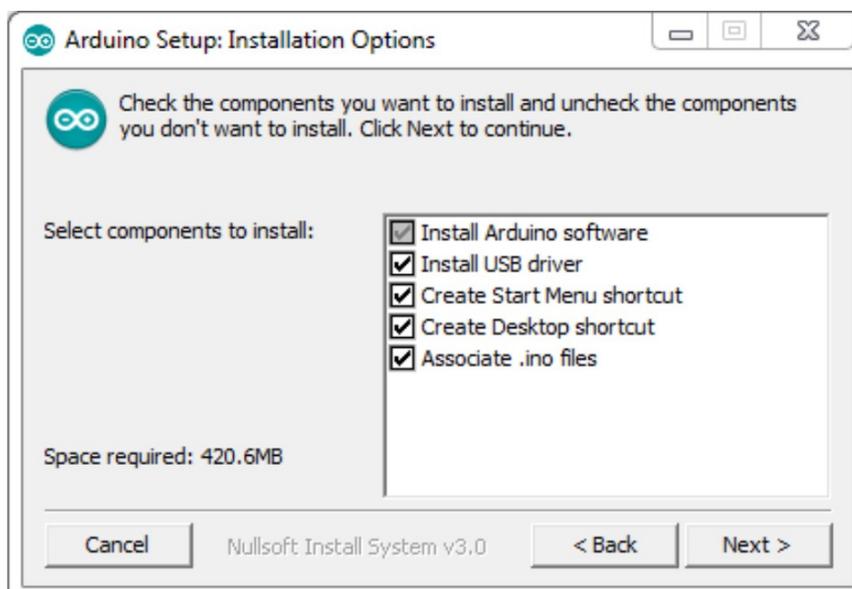
Installation of the Arduino software:

Before we can start programming, we have to download the Arduino software from <https://www.arduino.cc/en/Main/Software> .

After the download and we start the installer and the following screen appears:



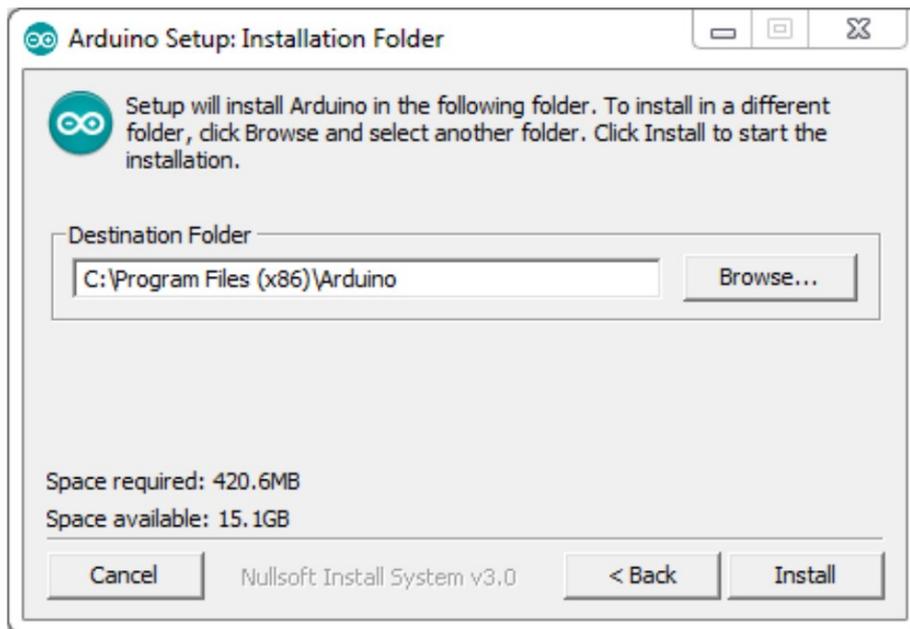
We confirm this window with "I Agree" if you accept the license agreement.



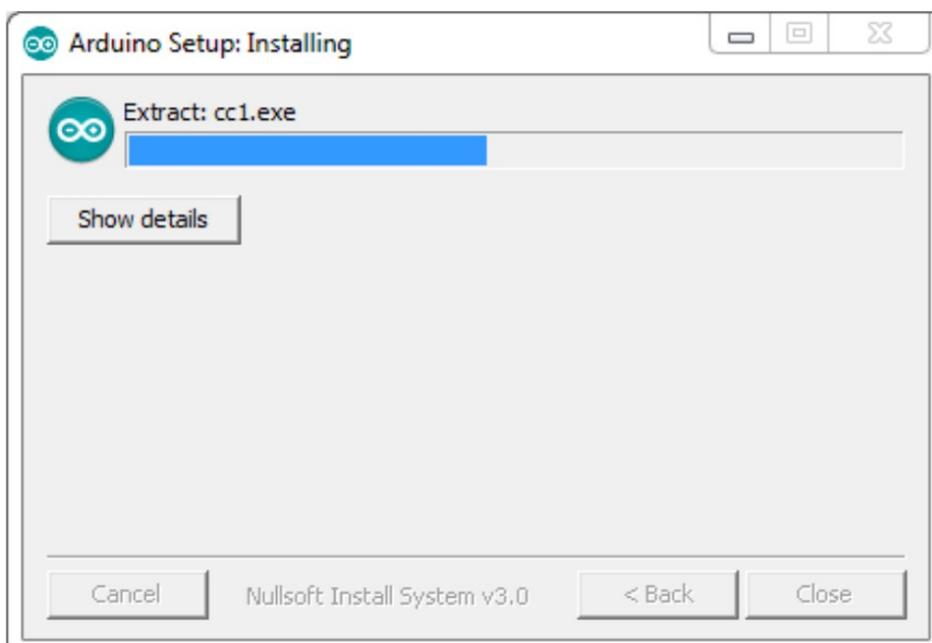
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In the next window we can choose from where we can start the Arduino software and if we want to install the USB drivers as well. The best way is to set the checkmarks as shown in the picture above.

The next step is to specify the installation directory, the default directory should usually be correct:



And then just wait for the arduino software to install:



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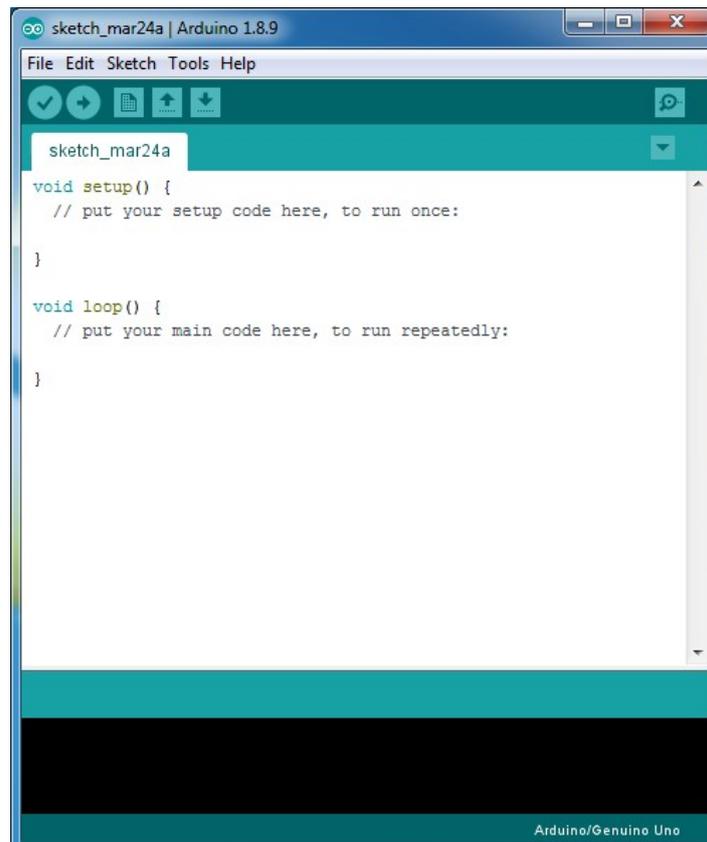
Close the installer by clicking on 'Close' button and in the start menu and desktop there will be a new icon. We start this now:



It starts the Arduino software:



And the programming window appears:



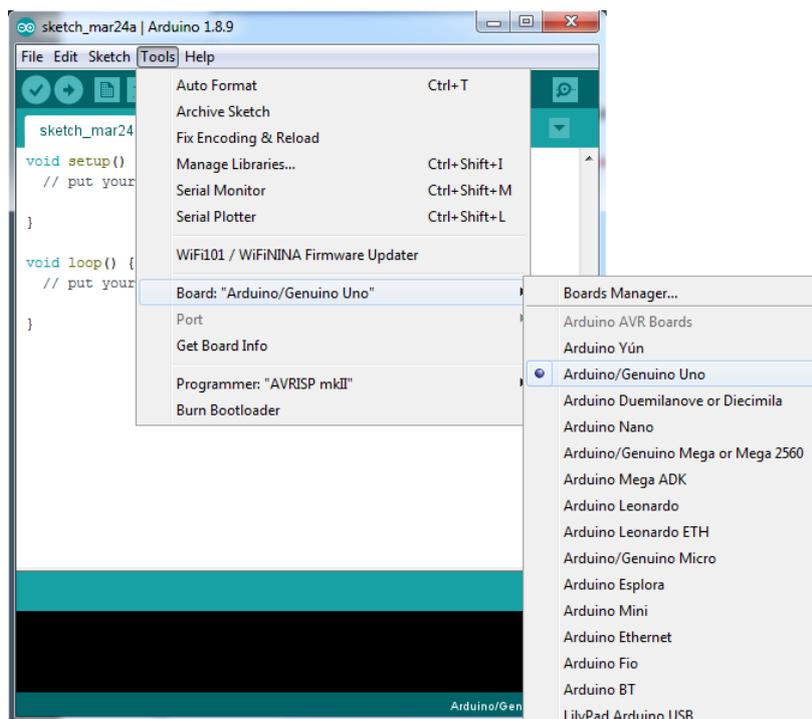
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First steps in the Arduino programming software

Before we can start with the sensor kit, we must also define our Arduino (which you can order separately from us) in the software.

For this we go in Tools and choose:

Tools > Board: > {Select your Arduino here} Arduino/Genuino Uno

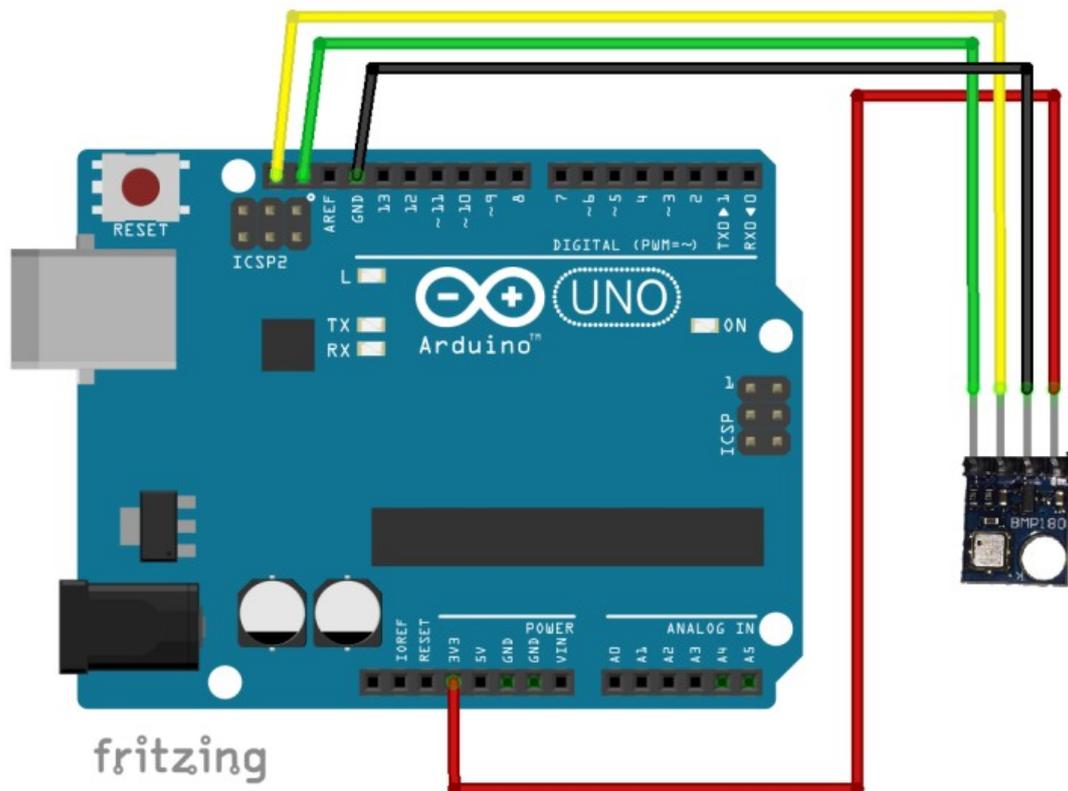


In this manual we use an Arduino Uno. But you can use any other Arduino board. At Tools > Port you only have to enter the Com-Port of your Arduino, you can read it from the device manager and change it if necessary.



Those were the first basic settings, now we can start programming.

Wiring the sensor



VIN is connected to 3.3V Arduino

GND is connected to GND

SCL is connected to SCL

SDA is connected to SDA

Red wire

Black wire

Yellow wire

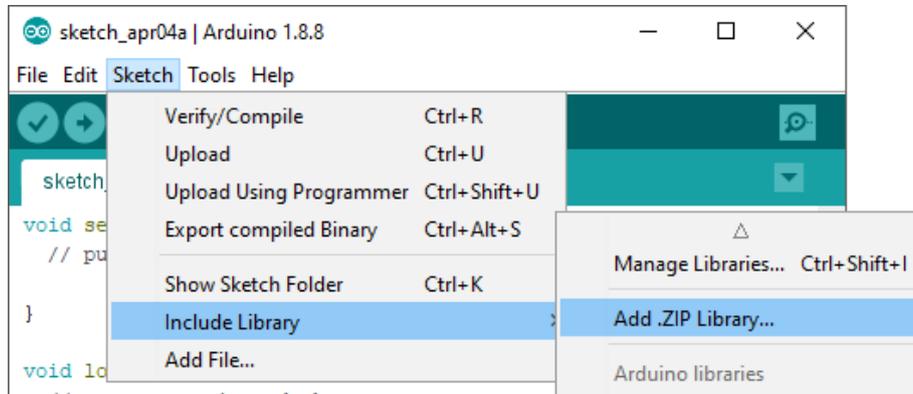
Green wire

For the sensor we still need a library. We have to install it manually by downloading the library here:

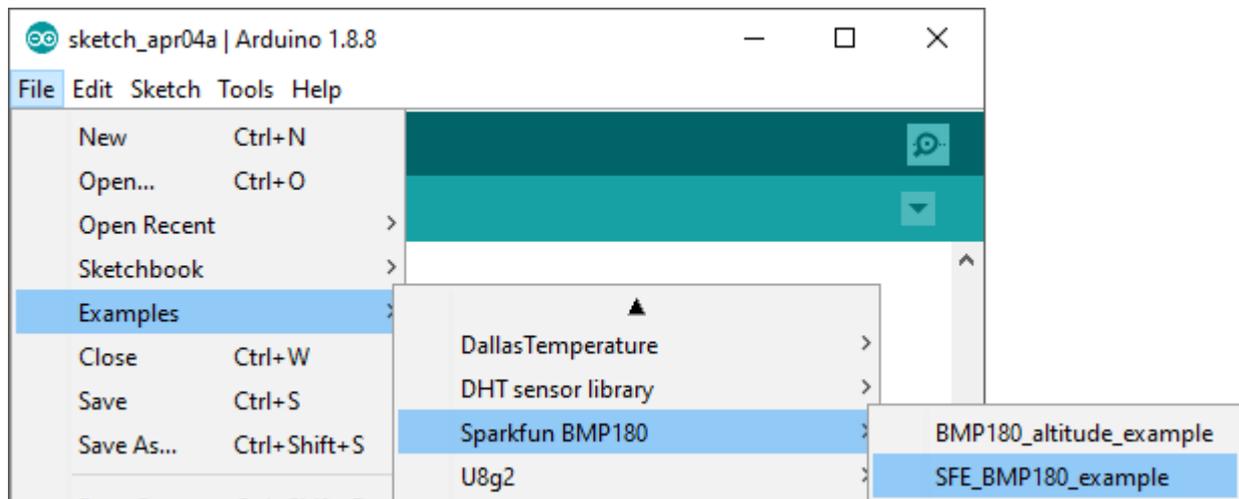
<https://www.dropbox.com/s/2emtotpd160lb3z/BMP180.zip?dl=>

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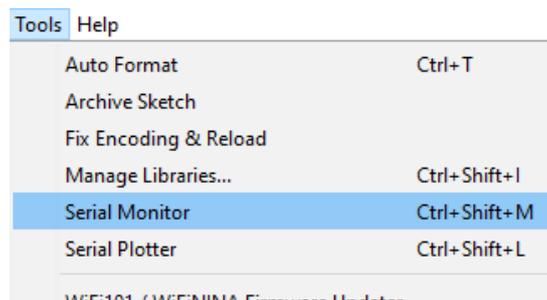
To add this .zip library to your Arduino IDE, go to Sketch > Include Library > Add .ZIP library, and add downloaded .zip file.



To load sketch example go to File > Examples > Sparkfun BMP180 > SFE_BMP180_example.

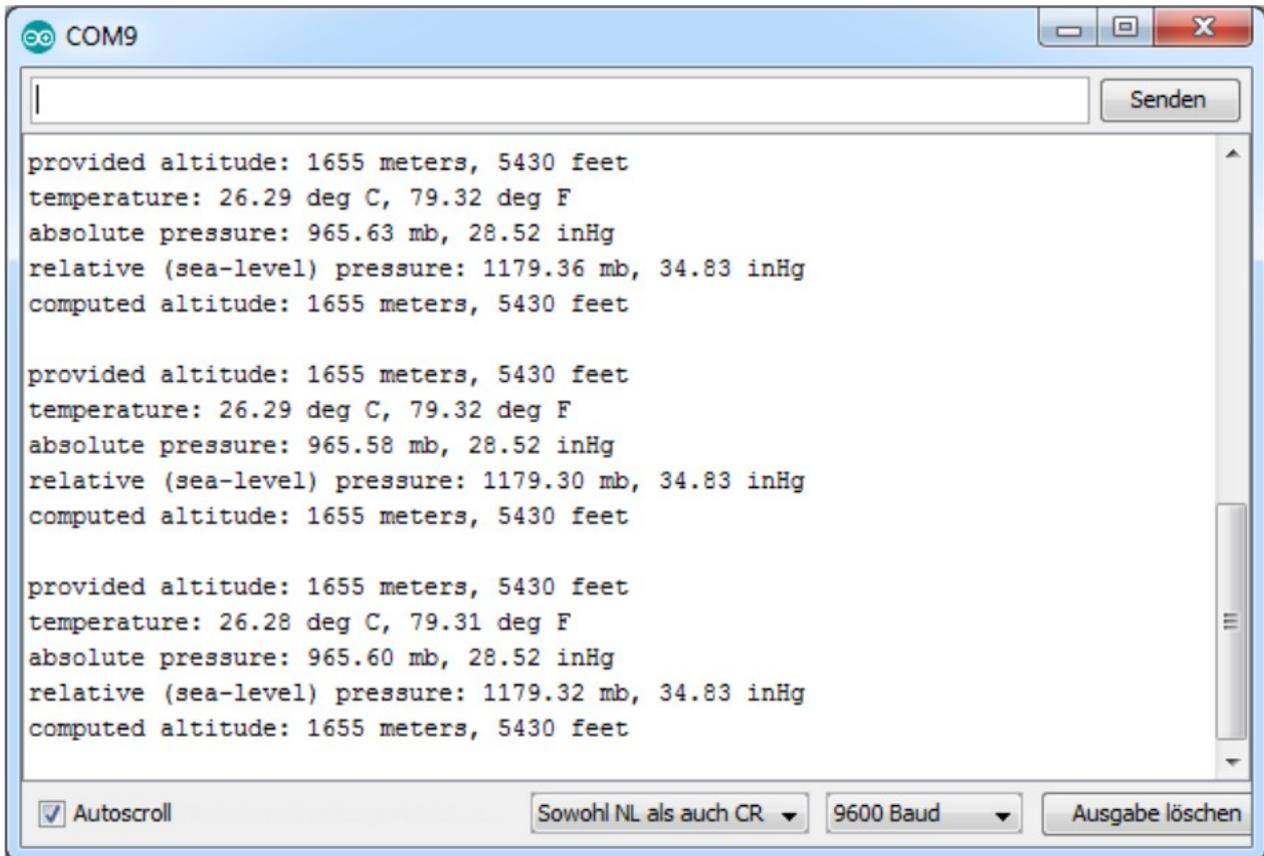


Then upload sketch code into your arduino board, and start Serial Monitor by going on Tools > Serial Monitor



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Make sure to use 9600 baud rate in serial monitor. If everything worked fine, you should get something like this in your Serial Monitor:



The screenshot shows a serial monitor window titled 'COM9'. The window contains three lines of sensor data, each consisting of five lines of text. The data is as follows:

```
provided altitude: 1655 meters, 5430 feet
temperature: 26.29 deg C, 79.32 deg F
absolute pressure: 965.63 mb, 28.52 inHg
relative (sea-level) pressure: 1179.36 mb, 34.83 inHg
computed altitude: 1655 meters, 5430 feet

provided altitude: 1655 meters, 5430 feet
temperature: 26.29 deg C, 79.32 deg F
absolute pressure: 965.58 mb, 28.52 inHg
relative (sea-level) pressure: 1179.30 mb, 34.83 inHg
computed altitude: 1655 meters, 5430 feet

provided altitude: 1655 meters, 5430 feet
temperature: 26.28 deg C, 79.31 deg F
absolute pressure: 965.60 mb, 28.52 inHg
relative (sea-level) pressure: 1179.32 mb, 34.83 inHg
computed altitude: 1655 meters, 5430 feet
```

The window also features a 'Senden' button at the top right, a 'Senden' button at the top right of the text area, and a control bar at the bottom with the following options: Autoscroll, a dropdown menu set to 'Sowohl NL als auch CR', a dropdown menu set to '9600 Baud', and a button labeled 'Ausgabe löschen'.

Now you can try out the 2nd example, which calculates the altitude change of your sensor.

You've done it, you can now use and program your sensor in your projects.

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Now it is time to learn and make the Projects on your own. You can do that with the help of many example scripts and other tutorials, which you can find on the internet.

If you are looking for the high quality products for Arduino and Raspberry Pi, AZ-Delivery Vertriebs GmbH is the right company to get them from. You will be provided with numerous application examples, full installation guides, eBooks, libraries and assistance from our technical experts.

<https://az-delivery.de>

Have Fun!

Impressum

<https://az-delivery.de/pages/about-us>