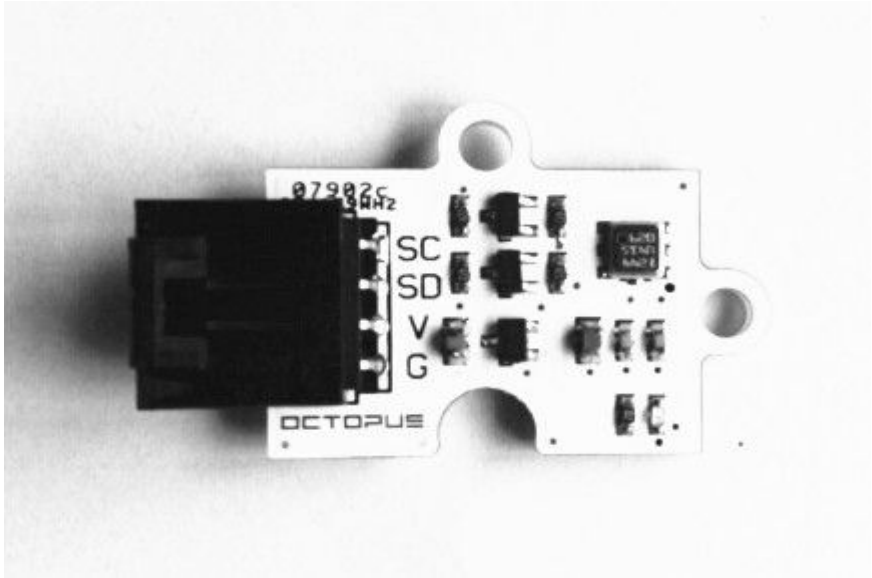
www.elecfreaks.com

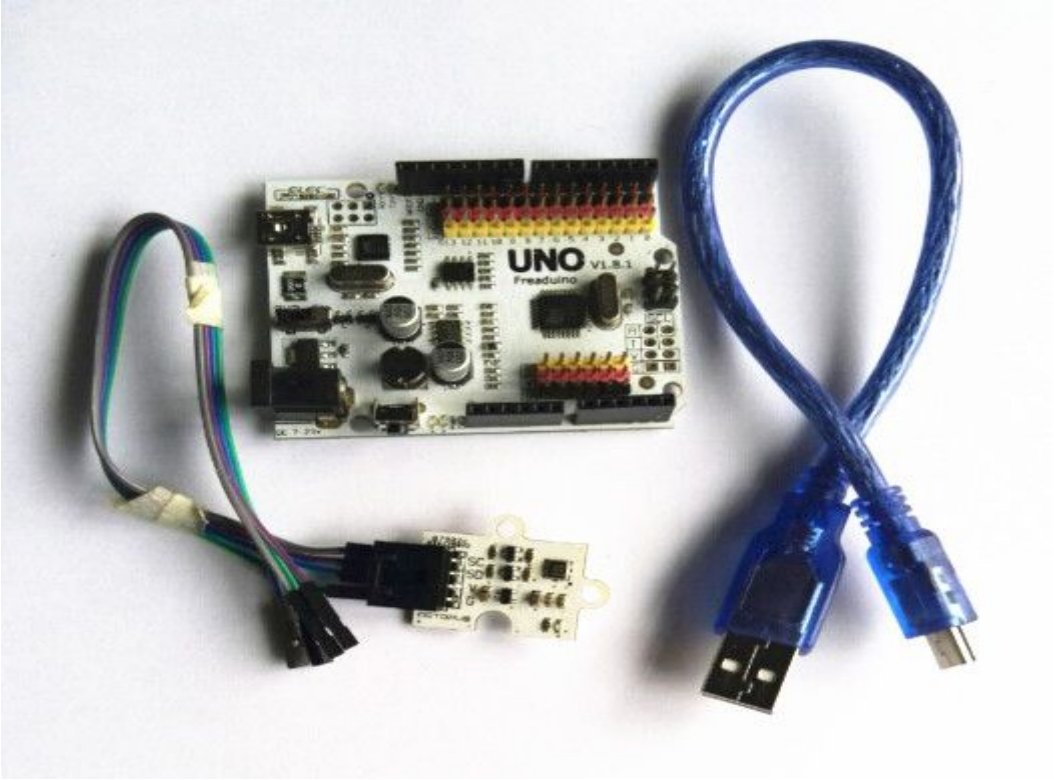
Octopus Barometer Sensor User Guide

1. Octopus Barometer Sensor Description

Octopus Barometer Sensor is a pressure sensor based on Bosch Sensortec BMP180. Its functions are almost the same with BMP085. It can be used as a barometer, temperature measurement, altitude measurement and so on.

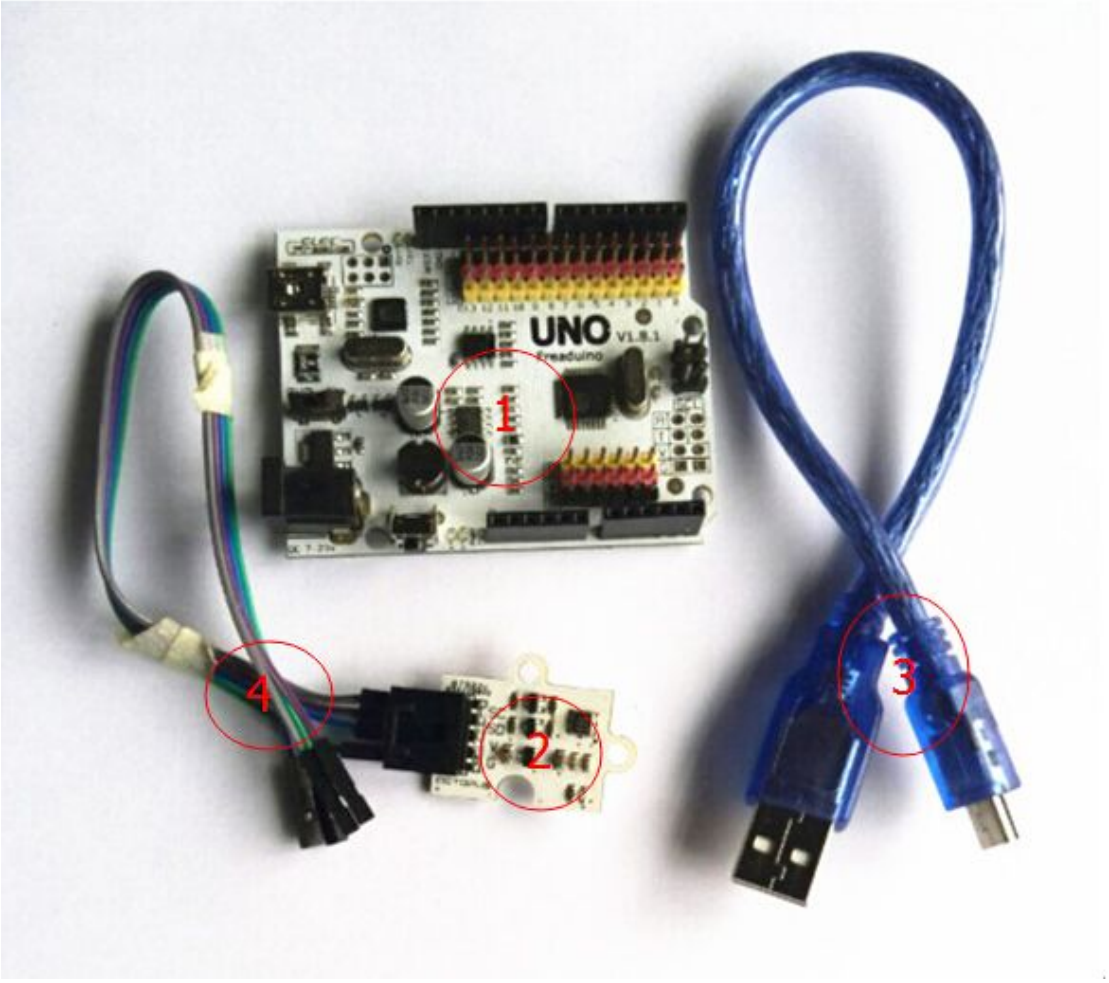


Pic 1



Pic 2

2. Hardware and Software Preparation



Pic 3

Hardware：

1、 Arduino UNO mainboard
2、 Octopus Barometer Sensor
3、 USB cord
4、 DuPont Line

Software：

1、 Octopus_Barometer_Sensor_lib AND Octopus_Barometer_Sensor Code

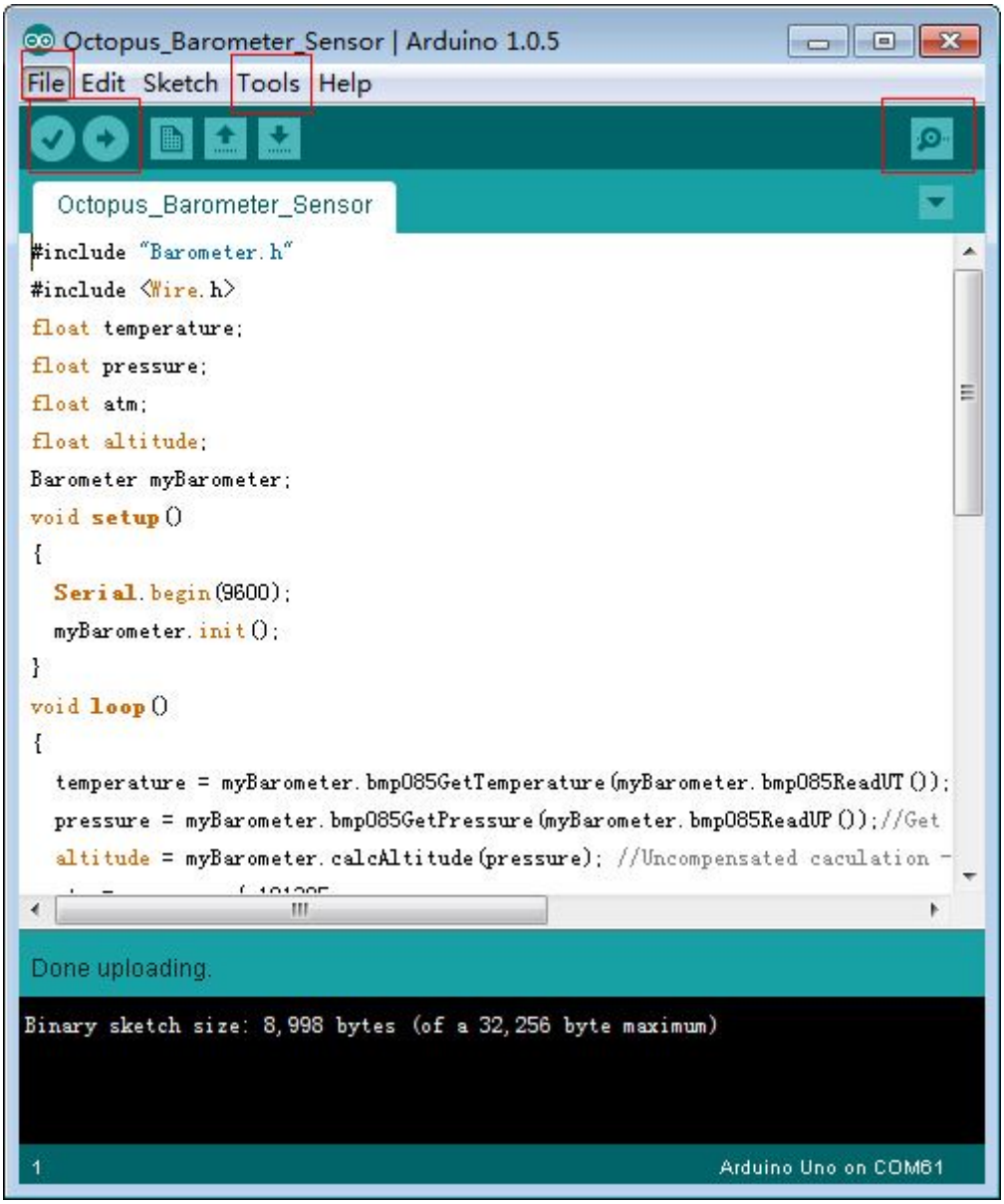
2、 Arduino IDE(1.0.5)

Step 1 Download Octopus Barometer Sensor CODE to Arduino

IDE

1. Download the two files “Octopus_Barometer_Sensor_lib” and “Octopus_Barometer_Sensor_Code” from ElecFreaks official website.

2. Put “Octopus_Barometer_Sensor_lib” into the library of “Arduino IDE(1.0.5)”; open “Octopus_Barometer_Sensor_Code” and enter “Arduino IDE(1.0.5)”, the interface will show as pic 4 below. Compile and download the code.

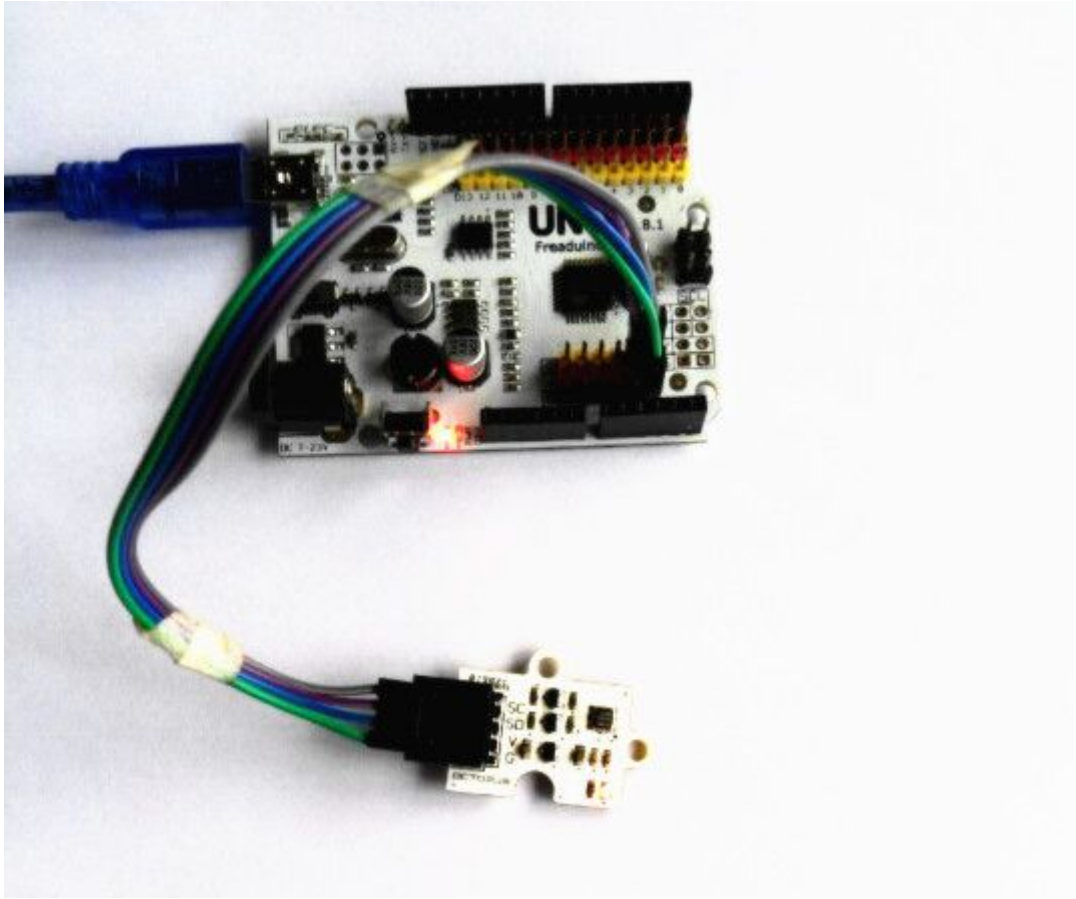


Pic 4

Note:
1. The content shown within the red frames is to prompt you to choose Arduino UNO or MEGA 2560 board for test. You need to change chipSelectPin into the corresponding pin.

Part 2 Wiring between Barometer Sensor and Arduino UNO

Step 1. Wiring Diagram



Pic 5

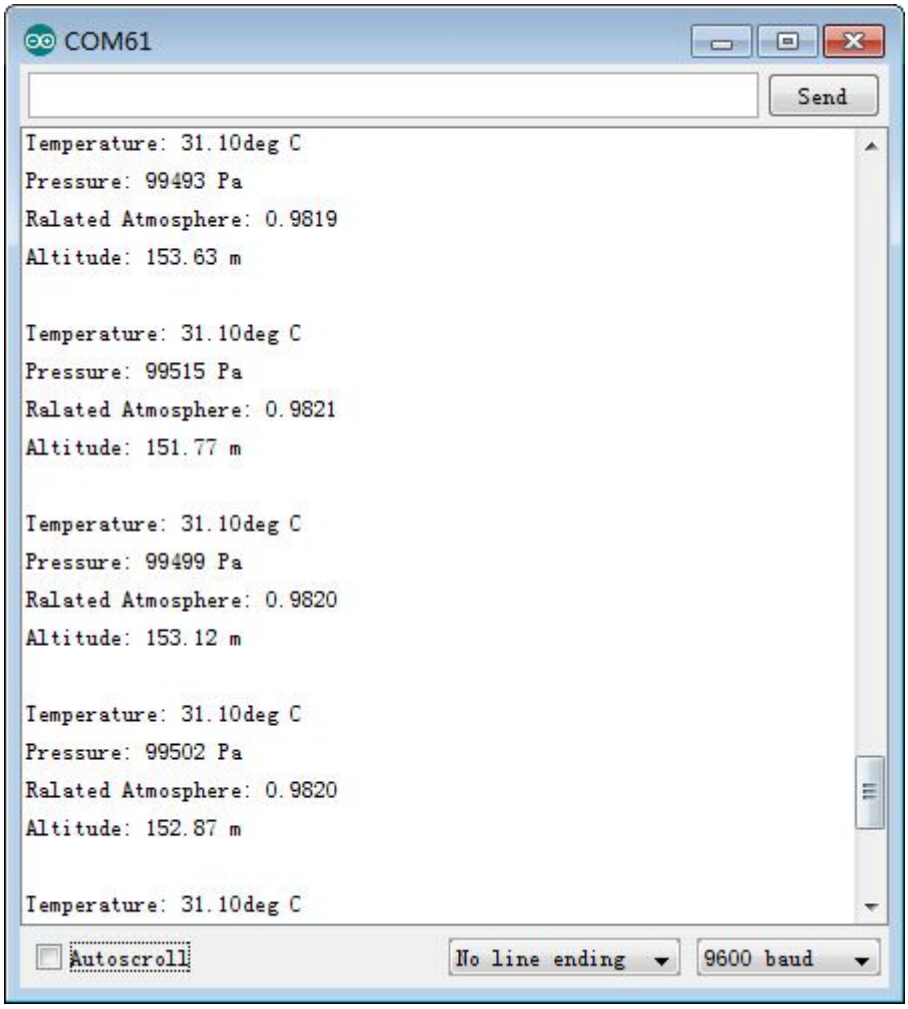
Corresponding Interfaces

Barometer Sensor	Arduino UNO
GND	GND
+5V	+5V
SD	A4
SC	A5

Step 2. Compile and Run Arduino（1.0.5）IDE Codes

Compile and run the program in Arduino（1.0.5）IDE. After successful download, open the serial port, the window will show as below:

Rendering effect:



(It's just the data measured on my own. The results of measurements in different places are not the same)