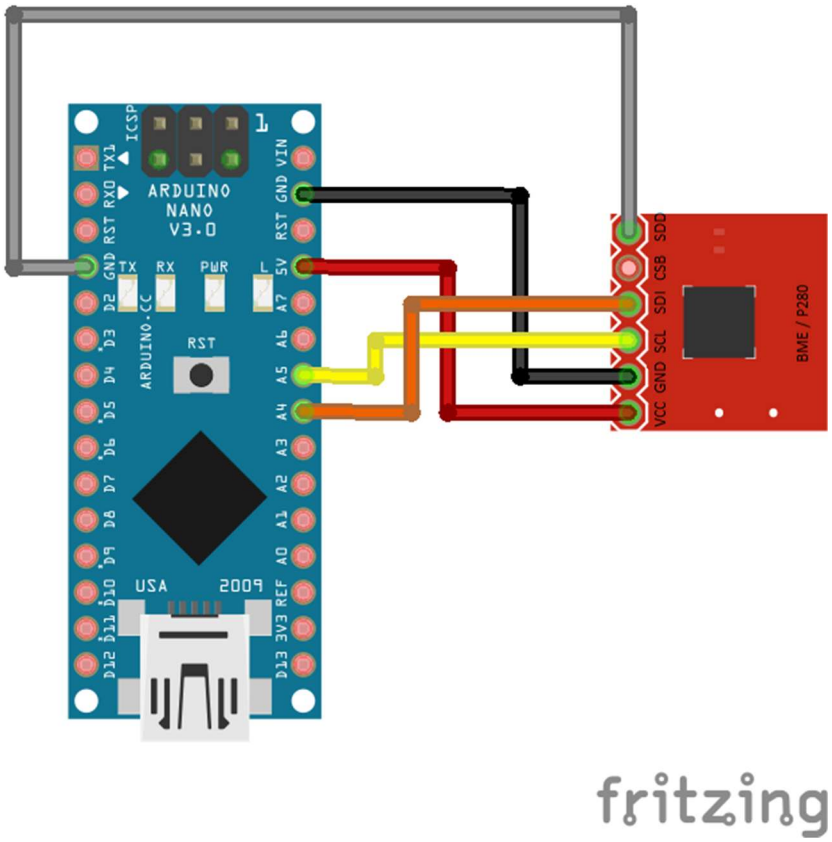
Barometer sensor

Plan de câblage / *Wiring diagram*



Liste du matériel requis / *List of required equipment:*

x1 carte arduino nano v3.0
x1 capteur BMP280
x1 cable USB

Informations complémentaires / *Further informations :*
Les fils rouges et noirs servent à l'alimentation de la sonde (rouge sur + et noir pour la masse). L'alimentation est en 5V. Les connexions à faire sont décrites ci-dessous.

The red and black wires are used to supply the probe (red on + and black for ground). The power supply is 5V. Connections are described below.

VCC → 5V | GND → GND | SCL → A5 | SDA → A4 | SDO → GND

```
#include <Wire.h>
#include <SPI.h>
#include <Adafruit_Sensor.h>
#include <Adafruit_BMP280.h>

#define BMP_SCK 13
#define BMP_MISO 12
#define BMP_MOSI 11
#define BMP_CS 10

Adafruit_BMP280 bme; // I2C
//Adafruit_BMP280 bme(BMP_CS); // hardware SPI
//Adafruit_BMP280 bme(BMP_CS, BMP_MOSI, BMP_MISO,  BMP_SCK);
int incomingByte = 0;
boolean value = false;
double total;

void setup() {
  Serial.begin(115200);
  bme.begin();
}

void loop() {
    while (value==false){
   Serial.println(5);
     delay(50);

    //Serial.println(2);
    while (Serial.available()>=1){
      incomingByte = Serial.read();
   if (incomingByte!=-1){


    //delay(100)
    value = true;

   }
   }
  }
  //Serial.print(F("Temperature = "));
   // Serial.print(bme.readTemperature());
   // Serial.println(" *C");

    //Serial.print(F("Pressure = "));
    total=0;
    for (int i=0;i<64;i++){
      total=total+bme.readPressure()/64.;
    delay(5);
  }
    Serial.println(total);
    delay(100);
```