

Bmp280 bme280 datasheet

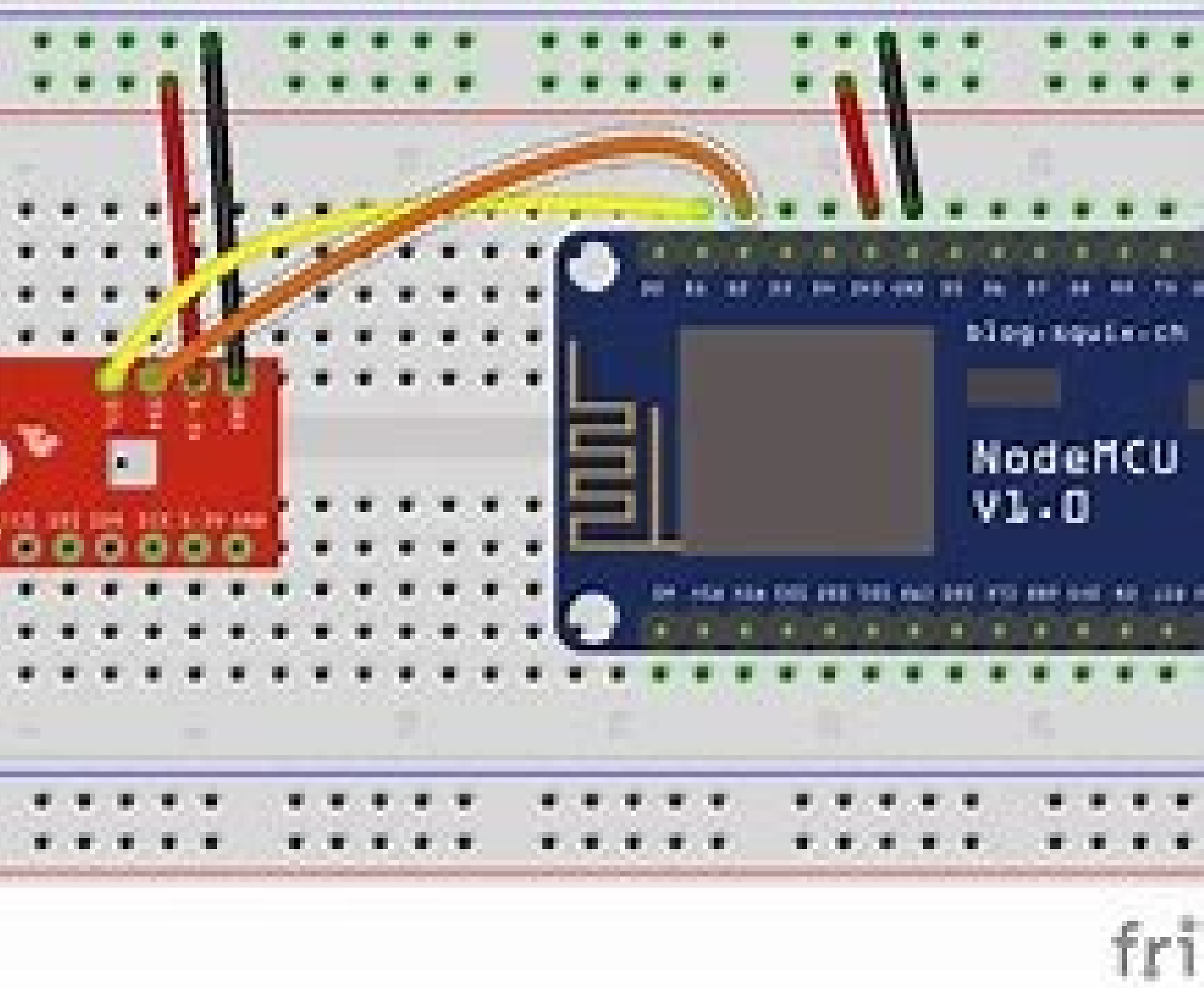
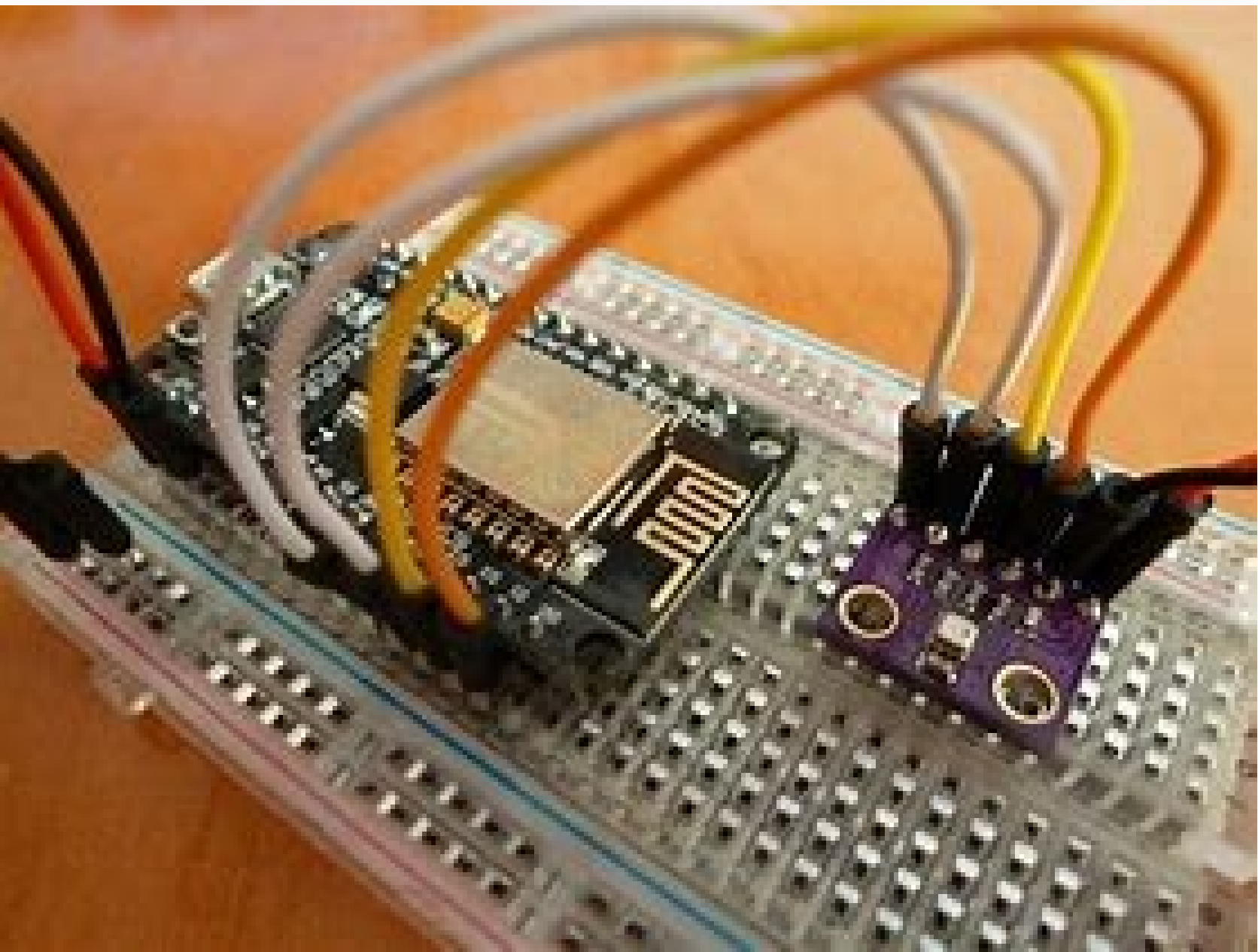
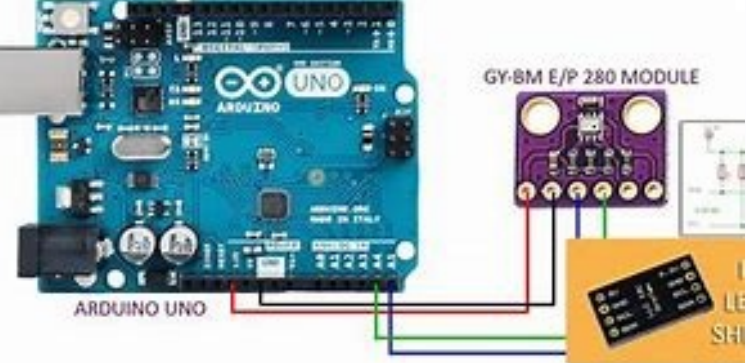
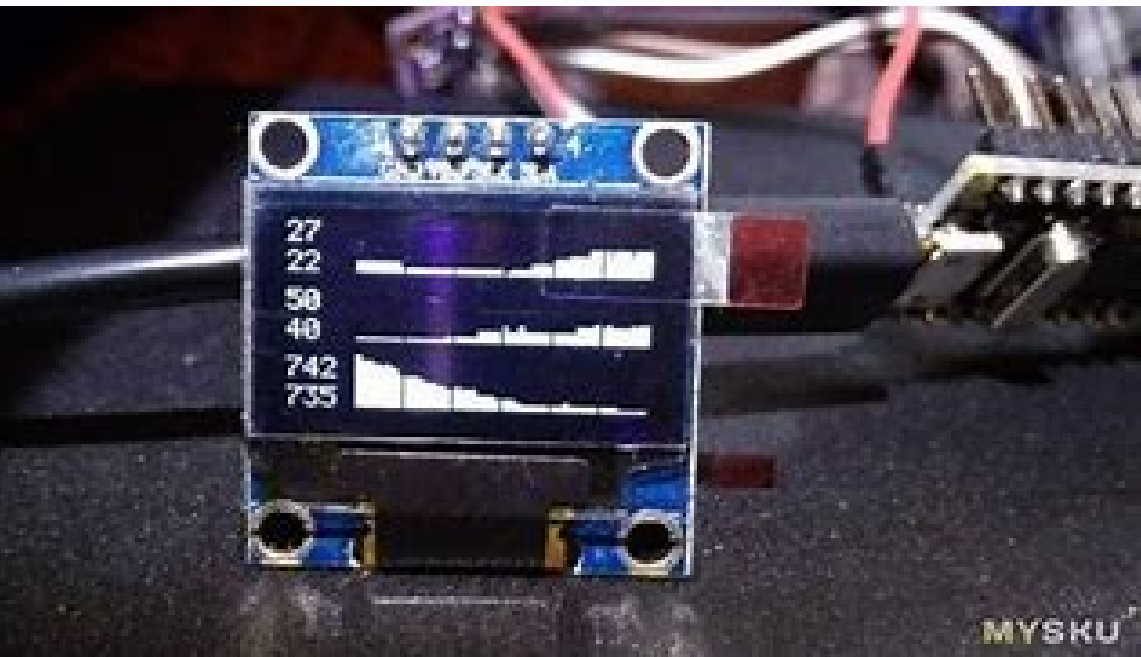
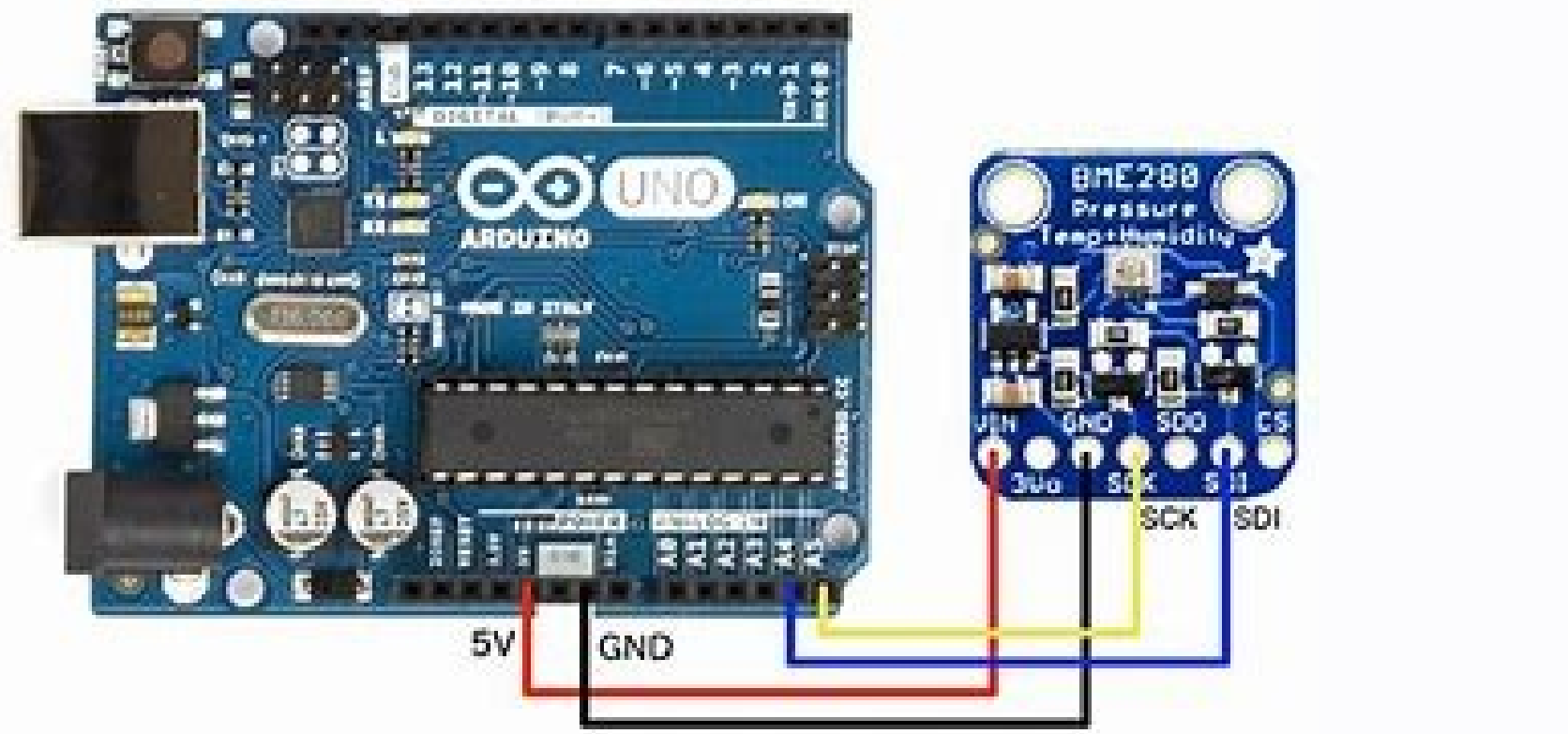
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SparkFun CCS811/BME280 Combo (SEN-14348) This library allows the user to: Read pressure in Pa Read temperature in C Read humidity in %RH It also provides the following mathematical functions based from the above. Read temperature in F Read altitude in meters Read altitude in feet Some examples include a circular buffer class for averaging. Thanks to: Repository Contents /examples - Example sketches for the library (.ino). Run these from the Arduino IDE. /src - Source files for the library (.cpp, .h). keywords.txt - Keywords from this library that will be highlighted in the Arduino IDE. library.properties - General library properties for the Arduino package manager. Documentation Products that use this Library SEN-15440 SEN-14348 SEN-13676 Version History V.1.0.0 - Public release. V.1.1.0 - Pulled request to add decimal precision to readFloatPressure() and readFloatHumidity(). V.1.2.0 - Added ESP32 architecture directives to modify begin operation. V.2.0.0 - Major update. Generalized wire port. Functionalized oversampling, standby time, etc. Added setMode. License Information This product is open source! Please review the LICENSE.md file for license information. If you have any questions or concerns on licensing, please contact techsupport@sparkfun.com. Distributed as-is; no warranty is given. Your friends at SparkFun. Page 2 You can't perform that action at this time. You signed in with another tab or window. Reload to refresh your session. You signed out in another tab or window. Reload to refresh your session. 博世Sensortec - BMP280 是一种专为移动应用设计的绝对气压传感器。该传感器模块采用极其紧凑的封装。得益于小尺寸和低功耗特性，这种器件可用在如移动电话、GPS 模块或手表等电池供电型设备中。与上代产品相同，BMP180、BMP280 也基于Bosch 成熟的压阻式压力传感器技术，具有高精度和线性度，以及长期稳定性和很高的 EMC 稳健性。多种设备工作选择带来了最高灵活性，可以在功耗、分辨率和滤波性能方面对设备进行优化。 BMP280是博世最新推出的数字气压传感器，具有卓越的性能和低廉的价格，相对精度为±0.12 hPa（相当于±1米），传感器功耗仅有2.7µA。BMP280具有业界最小封装，采用极其紧凑的8引脚金属LGA封装，占位面积仅为2.0×2.5mm²，封装高度为0.95 mm。包括有压力和温度测量功能。该气压传感器支持SPI和IIC通信接口，相比上一代的BMP180，精度已有相当大的提升，非常适合应用于低成本的多旋翼飞行器飞行控制器上，价格仅有目前流行的MS5611的四分之一。传感器模块它的小尺寸和2.74µA@ 1Hz的低功耗允许在电池驱动的设备中实现。门内导航、医疗保健以及GPS改进的新兴应用需要高精度和低TCO。 BMP280非常适用于地板水平检测等应用，因为传感器具有±0.12 hPa的优异相对精度，相当于±1m高度差，偏移温度系数（TCO）仅为1.5 Pa / K（相当于12.6厘米/ K）。作为广泛实施的BMP180的继承者，BMP280最初在2011年开始大量使用手机中的气压测量，BMP280在所有需要精确压力测量的应用中实现了高性能。同时，BMP280具有更高的应用灵活性，新的滤波器模式和SPI接口，而且相对于BMP180，占位面积缩小了763%。 The BME280 device is a digital barometric pressure sensor and is a slightly upgraded version of the BMP180. This is available on a small module which provides access to the sensor via the I2C interface. This allows us to easily connect it to the Raspberry Pi and read the data using Python. The BME280 provides temperature, pressure and humidity. The BME280 is made by Bosch and the official BME280 datasheet includes all the technical details. Their device can offer both SPI and I2C interfaces so you need to make sure your module provides the interface you prefer. My module is a small pcb measuring 14x10mm with a 4 pin I2C header. The order of the pins may vary on other modules so keep an eye on the labels so you connect up the correct wires from the Pi. Configure I2C InterfaceIn order to use this module you must enable the I2C interface on the Raspberry Pi as it is not enabled by default. This is a fairly easy process and is described in my Enabling The I2C Interface On The Raspberry Pi tutorial.Connecting HardwareThe table below shows how the module is connected to the Raspberry Pi's GPIO header (P1). Please refer to my GPIO header guide for a diagram.Module PCBDescGPIO Header PinsVCC3.3VP1-01GNDGroundP1-06SCLI2C SCLP1-05SDAI2C SDAP1-03Here is a diagram of a breadboard setup. If you are connecting the module's four pins directly to the Pi you only need four female-female wires.Other modules are available which have different pin arrangements so make sure you are connecting the correct pins to the Pi if yours is different to the one shown in this tutorial.With the device connected and the Pi powered up the "i2cdetect" command should show the device with address 0x76 or 0x77.Download BME280 ScriptTo download the BME280 Python script from my Bitbucket repository you can use wget -O bme280.py or right-click on this link in your browser and save locally.Run the ScriptBefore running the script you should check that your device is connected. If you installed the i2c-tools package as part of the i2c setup you should use the i2cdetect command to check it returns an address for your device. The script assumes the address is 0x76. You can change that by editing the DEVICE variable in bme280.py using your favourite text editor.Run the script using python bme280.pyHere is the output I see on my Pi -Script BreakdownThe script is fairly straight forward but has some scary looking maths in it. This is defined in the datasheet and you will be forgiven for not worrying too much how it works! I rough summary of the script is given below if you want to follow it through in a bit more detail : imports some libraries defines some functions function main uses the readBME280ID function to get the ID of the device function main then calls readBME280All which ... sets the oversampling and mode reads calibration data from the device that was preset in the factory reads the raw temperature, pressure and humidity data refines the data using the maths from the datasheet returns the values to main() Include In Your Own ScriptYou could just modify the main function in my script but you may want to include the functionality in your own. To do this you can import my script and then reference the readBME280ID and readBME280All functions as in the example below :import bme280 (chip_id, chip_version) = bme280.readBME280ID() print "Chip ID :", chip_id print "Version :", chip_version temperature,pressure,humidity = bme280.readBME280All() print "Temperature :", temperature, "C" print "Pressure :", pressure, "hPa" print "Humidity :", humidity, "%The rest is down to your imagination.Troubleshooting If the i2cdetect command results in an error you have either not installed i2c-tools or you need to use 0 rather than 1 If your device is not detected and you don't see the address you have either not connected the device properly or have not correctly enabled the i2c interface Double check your wiring and reboot the PiIn most cases i2c experiments fail to work because : i2c is not enabled The device is not connected properly i2c-tools has not been installed so the i2cdetect command is not availableIn rare cases your device may be faulty but it is far more likely to be one of the above issues.The module is available from Amazon and many other online electronics shops. You can also find .

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