

XC3702 Barometric Pressure Sensor Module

The XC3702 Barometric Pressure Sensor Module is based on the Bosch BMP180 digital pressure sensor, which can also supply ambient temperature readings. Although the BMP180 sensor is rated to a maximum of 3.6V, the module board provides a 3.3V regulator for interfacing to 5V systems. When used with pins in I2C mode, the module is safe to use with 5V systems as the I2C pins should not pull the pins up to 5V. The module has the requisite pull-up resistors to 3.3V. The I2C address of the module is 0x77 (7bit), or 0xEF/0xEE (8bit). For more detail on BMP180, see the datasheet.

The module will work with the Adafruit BMP085/BMP180 library- this can be found in the Library Manager by searching for BMP085, or by downloading directly from <https://github.com/adafruit/Adafruit-BMP085-Library>

The single 'BMP085test' example provides an overview of the basic functions of the module, including pressure, temperature and altitude measurements.

The below wiring will work with any R3 boards that have SCL/SDA broken out next to AREF. Alternative I2C wiring options can be found at <https://www.arduino.cc/en/Reference/Wire>

