**3/28/2014 BMP085 Digital Barometric Pressure Sensor**

1. Project Reference Number / Title:

-140328 **BMP085 Digital Barometric Pressure Sensor**

2. Link to Hardware Order:

-[BMP180 Replace BMP085 Digital Barometric Pressure Sensor Board Module Arduino T7](http://www.ebay.com/itm/121289316269?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1497.l2649)

3. Other Documentation:

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4. Link to Source Documentation/ Actual Documentation:

-<https://www.sparkfun.com/tutorials/253>

### BMP085 Quickstart Guide

Bosch's BMP085 is a rock-solid [barometric pressure](http://en.wikipedia.org/wiki/Barometric_pressure) sensor. It features a measuring range of anywhere between 30,000 and 110,000 Pa. 'Pa' meaning the [Pascal](http://en.wikipedia.org/wiki/Pascal_%28unit%29) unit, which you'll probably more often see converted to hPa (hectoPascal), equal to 100 Pa, or kPa (kiloPascal), which is 1000 Pa. As a bonus the BMP085 also provides a temperature measurement, anywhere from 0 to 65 °C.

The BMP085 has a digital interface, I2C to be specific. This means there may is a bit more overhead to get it talking to your microcontroller, but in return you get data that is much less susceptible to noise and other factors that may hamper an analog signal. I2C is a synchronous two-wire interface, the first wire, SDA, transmits data, while a second wire, SCL, transmits a clock, which is used to keep track of the data. If you're using an Arduino to talk to the BMP085, the Wire library will conveniently take care of most of the work in communicating with the sensor.

5. Wiring Documentation:

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6. ---------------- Project Code: (text format) START -------------------

7. --------------- Project Code: (text format) END -----------------------