SparkFun Pressure Sensor Breakout - MS5803-14BA

SEN-12909

★★★★½ 6

DESCRIPTION FEATURES DOCUMENTS

This is the MS5803-14BA Pressure Sensor Breakout, a high resolution pressure sensor with both an I²C and SPI interface. This MEMS pressure sensor measures the absolute pressure of the fluid around it which includes air, water, and anything else that acts like a viscous fluid. Depending on how you interpret the data, you can determine altitude, water depth, or any other tasks that require an accurate pressure reading. What makes the MS5803-14BA unique is the the gel membrane and antimagnetic stainless steel cap that protects against 30 bar water pressure.

We have broken out all the pins you need including GND and 3.3V for power, SDA/SDI and SCL/SCLK for an I²C interface and SD0, AD/CS, and PS for a SPI interface. The MS5803-14BA Breakout offers a resolution range of 1 / 0.6 / 0.4 / 0.3 / 0.2 mbar. Be aware that to switch between I²C and SPI interfaces a little bit of soldering between solder pads will be required, check the hookup guide below for more information.

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MS5803-14BA Pressure Sensor Hookup Guide
JULY 24, 2014

Breakout of MS5803-14BA Pressure Sensor

COMMENTS 46 REVIEWS ★★★★½ 6

Customer Reviews

★★★★½ 4.7 out of 5

Based on 6 ratings:

5 star		4
4 star		2
3 star		0
2 star		0
1 star		0

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1 of 1 found this helpful:

★★★★★ Easy and accurate
about 3 years ago by JibberFisch ✔ verified purchaser
With the existing libraries, this was a 20 minute job to get it reading properly on my Arduino. I needed it to read pressure from a tube, so I hot-glued the bejeezus out of it and that did the trick. For that to work, I had to also seal off all the holes on the bottom of the board, basically encapsulating it into a brick of hot glue. Even so, it works great.

★★★★☆ seems to work nicely
about 3 years ago by Member #146820 ✔ verified purchaser
I used it in SPI mode. I'd give 5 stars except for the fact that I had to do a little intelligent guessing to figure out how to go from I2C configuration to SPI. The description said that some other doc would say how to do it, but it didn't. It wasn't hard to guess, but that document should be fixed to give the info or else the part description changed.

Also I wish you guys sold a watertight case with a gland and o-ring to match the collar on the sensor itself.

★★★★★ Very Reliable
about 2 years ago by Member #695250 ✔ verified purchaser
I had this sensor running in just one hour, it's perfect for hobbyists looking for a home-made project. There are online examples on how to use it.

★★★★☆ Does exactly what it says on the tin.
about a year ago by Member #762966 ✔ verified purchaser
Does exactly what it says on the tin; no fuss, no muss. What more could you ask for?

An SPI library would have been nice as well as confirmation that the one solder bridge to solder was the right one, but it's really not at all hard to work out.

★★★★★ Great for scientific research!
about 7 months ago by Member #416028 ✔ verified purchaser
Used the sensor to build a machine that dilutes gas samples stored in a glass vial. The sensor is very accurate. After calibration the machine is able to dilute gas samples with an error less than 0.5%. Very happy with this breakout board!

Downloaded from Arrow.com.