

Atmospheric Sensor Breakout - BME280 (with Headers)

SEN-13905

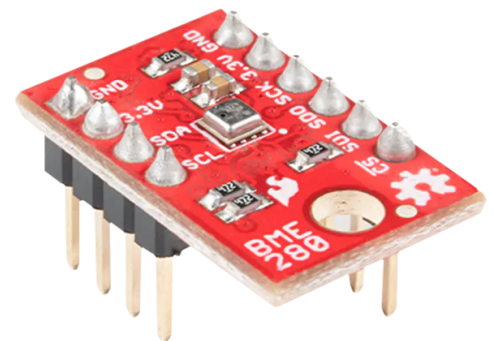
Product Overview

10/18/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun Atmospheric Sensor Breakout - BME280 (with Headers) is designed to measure barometric pressure, humidity, and temperature readings without too much space. This breakout board can measure atmospheric pressure from 30kPa to 110kPa and relative humidity and temperature. The BME280 atmospheric sensor breakout board provides a 3.3V SPI interface, a 5V tolerant I²C interface (with pull-up resistors to 3.3V), takes measurements at less than 1mA, and idles less than 5µA. This breakout board has 10 pins and no more than six are used simultaneously. The left side of the board provides power, ground, and I²C pins. The other side of the board has the remaining pins which provide SPI functionality and have another power and ground. Applications include indoor/outdoor navigation, weather forecasting, home automation, and personal health and wellness monitoring.



Features

- 3.3V operation voltage
- I²C and SPI communications interface
- -40°C to 85°C operating temperature range
- Humidity range:
 - 0 - 100% RH, ±3% from 20-80%
- Pressure range:
 - 30,000Pa to 110,000Pa, relative accuracy of 12Pa, and absolute accuracy of 100Pa
- Altitude range:
 - 0 to 30,000ft (9.2km), relative accuracy of 3.3ft (1m) at sea level, and 6.6 (2m) at 30,000ft
- Compact size
- Pre-soldered headers

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-atmospheric-sensor-breakout-bme280/>