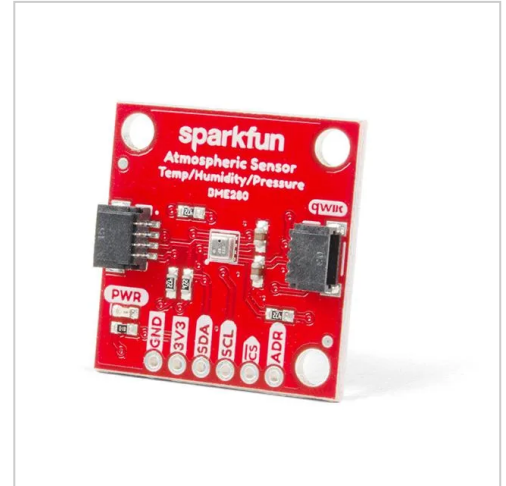


SparkFun Qwiic - Atmospheric Sensor Breakout, BME280

The SparkFun BME280 Atmospheric Sensor Breakout is an easy way to measure air pressure, humidity and temperature without taking up too much space. Basically, you can find out everything with this tiny breakout

Product number SEN-15440

Weight 0.002kg



Product description

The SparkFun BME280 Atmospheric Sensor Breakout is an easy way to measure air pressure, humidity and temperature without taking up too much space. Basically, you can find out everything you need to know about atmospheric conditions with this tiny breakout. The BME280 Breakout is designed for use in indoor/outdoor navigation, weather forecasting, home automation and even personal health and wellness monitoring. By using our convenient Qwiic system, no soldering is required to connect it to the rest of your system. Still, we've broken out the pins at 0.1" spacing in case you prefer to use a breadboard.

The BME280 on-board sensor measures barometric pressure from 30kPa to 110kPa as well as relative humidity and temperature. The breakout offers a 3.3V SPI interface, a 5V-tolerant I2C interface (with pull-up resistors to 3.3V) and can be configured to take measurements with less than 1mA current consumption.

Features:

- Operating voltage: 1.71V-3.6V(**standard for Qwiic system: 3.3V**)
- I2C & SPI interface
- Temperature range
 - Overall accuracy: 0°C-65°C (32°F-149°F)
 - Operational: -40°C-85°C (-40°F-185°F)
- Humidity range: 0-100% RH
- Pressure range: 300-1100 hPa (30,000-110,000 Pa or approx. 4.35-15.95 PSI)
- I2C address: 0x77 (default) or 0x76

Documents:

- [Get Started With the SparkFun Qwiic Atmospheric Sensor Guide](#)
- [Circuit diagram](#)
- [Eagle files](#)
- [Connection instructions](#)
- [Datasheet \(BME280\)](#)
- [SparkFun BME280 Arduino Library](#)
- [SparkFun BME280 Python package](#)
- [GitHub Hardware Repo](#)

Product properties

Gross Weight (kg)	0.002
Country of Origin	USA
Brand	SparkFun
Product ID	SEN-15440
Manufacturer ID	SEN-15440
EAN	5904422352134
Zolltarifnummer	85423911

More images

