



## Zio Qwiic Air Quality Sensor CCS811

SKU: 101933

### Description:

Our Zio Qwiic Air Quality Module features a CCS811 IC; a very small gas sensor that detects the quantity of Volatile Organic Compounds (VOCs) and CO<sub>2</sub> in the atmosphere, great for indoor air-quality monitoring.

You can also use this sensor alongside our range of other Zio Qwiic sensors to create a full indoor-environment sensing module!

This sensor can measure

- **eCO2** (equivalent calculated carbon-dioxide) (400 to 8192 ppm (parts per million))
- **VOC** (Total Volatile Organic Compound (0 to 1187 ppb (parts per billion))
- **Ambient Temperature** (Optional with NTC Thermistor\* which can help compensate readings).

The CCS811 has a configurable interrupt pin, which can be enabled when a conversion is ready and when user-defined thresholds have been reached. The sensor also has the ability to take measurements at set intervals; every 250 milliseconds, 1, 10 and 60 seconds, making it as simple as possible to receive your data.

Like other Zio Qwiic boards, it incorporates the Qwiic connector for a convenient and easy setup, and as always we have provided breakout pins so you can use it with your breadboard as well.

**Important:** Like all VOC/Gas sensors, it must be calibrated before use. The sensor must be run 48 hours the first time of use, then 20 minutes on preferred mode every time it is used; without this the sensor will give inaccurate readings.

To find out more about how to use this device and get up and running, check out our Tutorial.

\*NTC Thermistor Not Included

## Specification

- Operation Voltage: 3.3V
- Interface: I2C
- I2C Address: 0x5A and 0x5B
- Dimensions: 25.5 x 26.6mm
- Weight: 1.7g

## Links:

- [PCB Source File and Schematic](#)
- [CCS811 Datasheet](#)
- [Sparkfun CCS811 Library](#)
- [Adafruit CCS811 Library](#)

More Product Picture:



