|  | [SGP 30](https://www.adafruit.com/product/3709) | [SCD 30](https://www.adafruit.com/product/4867) |
| --- | --- | --- |
| **Type** | E CO2 | CO2 |
| **Additional sensors** | VOC | Temp  Humidity |
| **Range** | 400-60k PPM | 400-10k PPM |
| **Accuracy** | ±15% | ±30PPM +3% |
| **Price ($)** | 17.50 | 58.95 |
| **Relative Size** | Size of quarter | Double size |
| **Notes** | Can be more accurate with Humidity sensor  Uses H2 to get CO2 | 2-1800s sampling range |

Average outdoor PPM is 414 PPM

Cities have PPM between 600-900

OSHA permits up to 5K PPM per 8 hour exposure

40K PPM is where it gets to the deadly range

ANSI recommends below 700 PPM outdoor and 1200 PPM Indoor

Sources:

[USDA](https://www.fsis.usda.gov/sites/default/files/media_file/2020-08/Carbon-Dioxide.pdf)

[SGP30 Overview/datasheet/tutorial...etc](https://learn.adafruit.com/adafruit-sgp30-gas-tvoc-eco2-mox-sensor/overview)

[SCD 30 Overview/datasheet/tutorial...etc](https://learn.adafruit.com/adafruit-scd30)