Overview of Sensirion's Gas Sensors

Do you have any questions or want to discuss a future project? Please contact us.

Product	SGP30	SGPC3	SVM30 (coming soon)
Output	• Total VOC in ppb • H_2-based CO_2eq in ppm	• Total VOC in ppb	• Total VOC in ppb • H_2-based CO_2eq in ppm • Relative humidity • Temperature
Supply voltage	1.62 – 1.98 V	1.62 – 1.98 V	4.5 – 5.5 V
Average current	48 mA	Low power mode: 1mA Ultra-low power mode: 0.065 mA	49 mA
Package	6-pin DFN 2.45 x 2.45 x 0.9 mm³	6-pin DFN 2.45 x 2.45 x 0.9 mm³	PCB 39 x 15 x 6.5 mm³
Interface	I²C 1.8 V	I²C 1.8 V	I²C 5 V
Indoor Air Quality			
Typ accuracy	15% of measured value	15% of measured value	15% of measured value
Output range[1]	TVOC: 0 – 60'000 ppb CO_2eq: 0 – 60'000 ppm	TVOC: 0 – 60'000 ppb	TVOC: 0 – 60'000 ppb CO_2eq: 0 – 60'000 ppm
Sampling rate	1s	Low power mode: 2s Ultra-low power mode: 30s	1s
Long-term stability	MOXSens® siloxane resistance: typ 1.3% accuracy drift per year in siloxane accelerated lifetime test		
Baseline compensation	On-chip baseline compensation algorithm		
Humidity compensation	Yes[2]	Yes[2]	Yes[2]
Temperature			
Measurement range	-	-	−20 °C – 85 °C
Typ accuracy	-	-	± 1°C
Humidity			
Measurement range	-	-	0% – 100% RH
Typ accuracy	-	-	± 5% RH

Please note that the above values are of indicatory nature only. For detailed information please consult the respective datasheet.

• [1]CO_2eq output is based on a hydrogen measurement. The SGP is not suited for applications where real CO_2 detection is required.

• [2]To use the humidity compensation feature of the SGP an additional humidity sensor like the SHTxx is required.