

The multi-pixel gas sensor platform SGP creates new possibilities for the measurement of indoor air quality. The SGP offers a complete gas sensor system integrated into a very small $2.45 \times 2.45 \times 0.9 \text{ mm}^3$ DFN package featuring an I²C interface and fully calibrated air quality output signals.

Sensirion's MOXSens® Technology provides the SGP with an unmatched robustness against contamination by siloxanes resulting in unique long-term stability and accuracy. The SGP further combines multiple metal-oxide sensing elements – the pixels – on one chip to provide more detailed air quality signals. The unprecedented combination of long-term stability and multi-pixel technology makes the SGP a perfect choice for indoor air quality monitoring in mobile, smart home and appliance applications.

Pic. 1 Front view of the SGP30BOBII

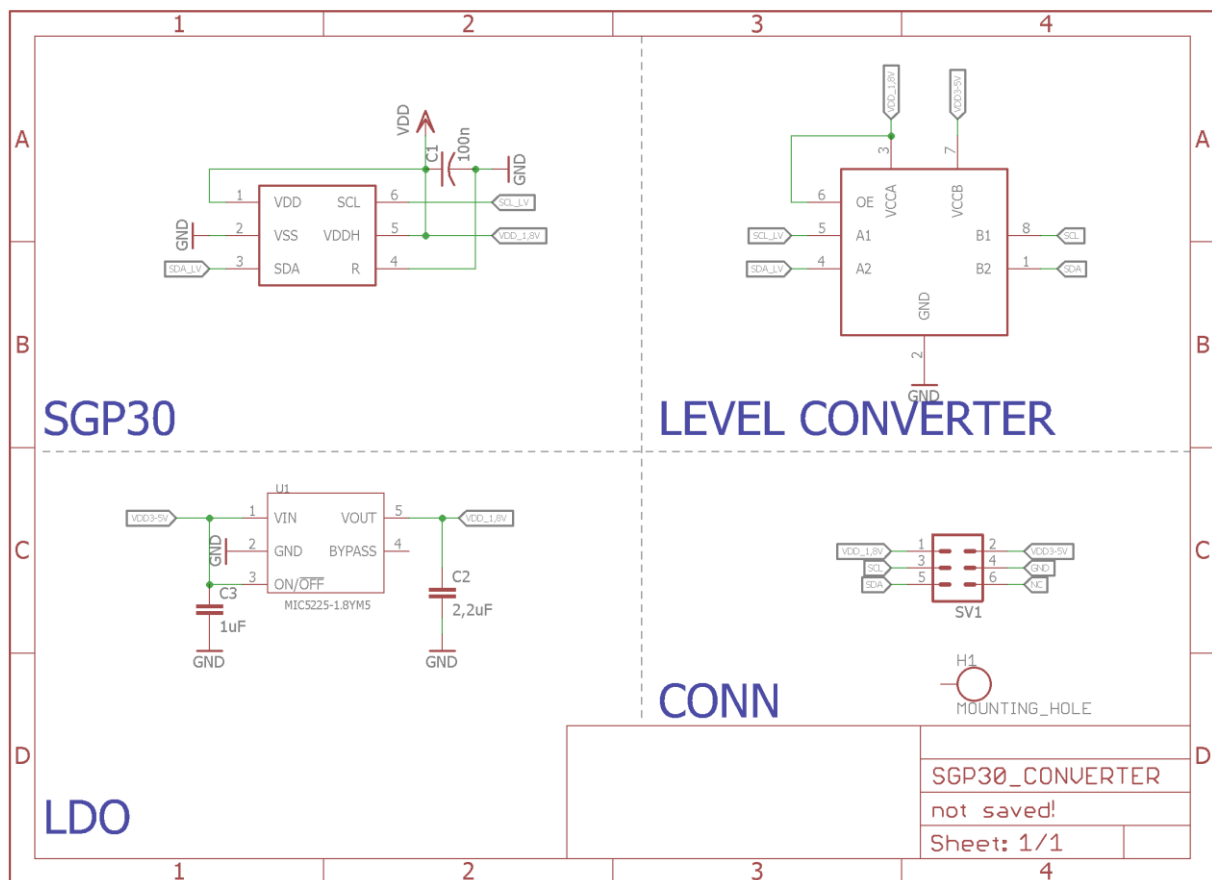
SGP30BOB II module features:

- Very small – only 7.7 x 20.6mm
- 0.1 inch pin header for easy handling
- Power supply voltage 3-5VDC
- On-board level converter to interface with 3.3 or 5V logic systems

For more information and technical details of SGP30 sensor please visit

https://www.sensirion.com/fileadmin/user_upload/customers/sensirion/Dokumente/0_Datasheets/Gas/Sensirion_Gas_Sensors_SGP30_Datasheet.pdf

Schematic diagram:



Pin description:

1. 1.8V output of voltage regulator
2. VDD – 3 to 5VDC external power supply
3. SCL – Clock signal of I2C bus
4. GND – Power Ground
5. SDA – DATA signal of I2C bus
6. N/C

Pic. 2 Back view of the Break out Board

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