

## SGP on flex PCB



### Summary

For sensor evaluation Sensirion offers SGP sensors soldered on flex PCB. The PCBs are designed for easy evaluation of SGP sensors with Sensirion's Sensorbridge evaluation kit. The flex PCB also includes the recommended decoupling capacitors for noise reduction. The SGP on flex PCB are available in single quantities and evaluation purposes only.

## 1 Interface Specifications

The SGP on flex PCB has a 4-pin connector with a pin assignment as described in **Table 1**. The PCB includes a 100 nF decoupling capacitor between VDD and VSS. For connecting the flex PCB to other electronics a connector like for instance the SFW4R-2STE1LF is recommended.

Pin	Name	Comments
1	V <sub>DD</sub>	Supply voltage
2	SCL	Serial clock, bidirectional
3	V <sub>SS</sub>	Ground
4	SDA	Serial data, bidirectional

1: VDD

2: SCL

3: GND

4: SDA

**Table 1** Pin assignment

## 2 Electrical and Gas Sensing Specifications

Please refer to the datasheet of the respective SGP gas sensor for electrical and gas sensing specifications.

## 3 Important Notices

### 3.1 Warning, Personal Injury

**Do not use this product as safety or emergency stop devices or in any other application where failure of the product could result in personal injury. Do not use this product for applications other than its intended and authorized use. Before installing, handling, using or servicing this product, please consult the data sheet and application notes. Failure to comply with these instructions could result in death or serious injury.**

If the Buyer shall purchase or use SENSIRION products for any unintended or unauthorized application, Buyer shall defend, indemnify and hold harmless SENSIRION and its officers, employees, subsidiaries, affiliates and distributors against all claims, costs, damages and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if SENSIRION shall be allegedly negligent with respect to the design or the manufacture of the product.

### 3.2 ESD Precautions

The inherent design of this component causes it to be sensitive to electrostatic discharge (ESD). To prevent ESD-induced damage and/or degradation, take customary and statutory ESD precautions when handling this product. See application note "ESD, Latchup and EMC" for more information.

### 3.3 Warranty

SENSIRION warrants solely to the original purchaser of this product for a period of 12 months (one year) from the date of delivery that this product shall be of the quality, material and workmanship defined in SENSIRION's published specifications of the product. Within such period, if proven to be defective, SENSIRION shall repair and/or replace this product, in SENSIRION's discretion, free of charge to the Buyer, provided that:

- notice in writing describing the defects shall be given to SENSIRION within fourteen (14) days after their appearance;
- such defects shall be found, to SENSIRION's reasonable satisfaction, to have arisen from SENSIRION's faulty design, material, or workmanship;
- the defective product shall be returned to SENSIRION's factory at the Buyer's expense; and
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SENSIRION reserves the right, without further notice, (i) to change the product specifications and/or the information in this document and (ii) to improve reliability, functions and design of this product.

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