

Handling Instructions

For the SFA30 Formaldehyde Sensor Module

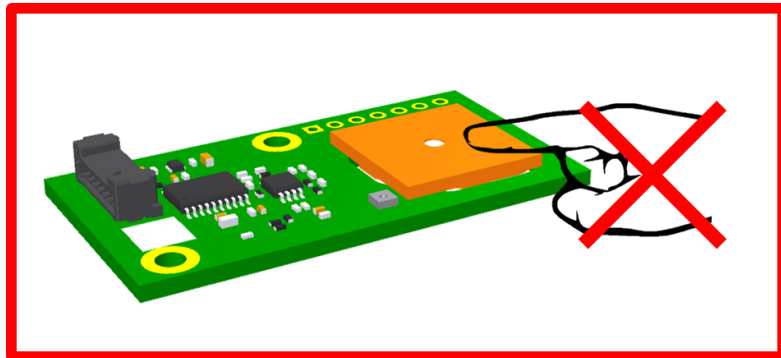
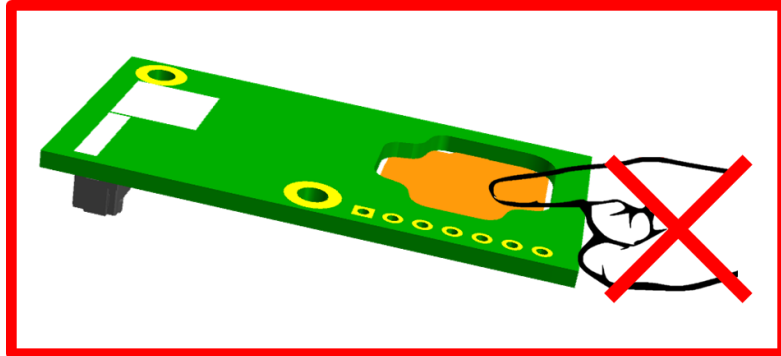
This application note describes the basic handling instructions which shall be followed at all times during handling and assembly of the SFA30 formaldehyde sensor module.

Content

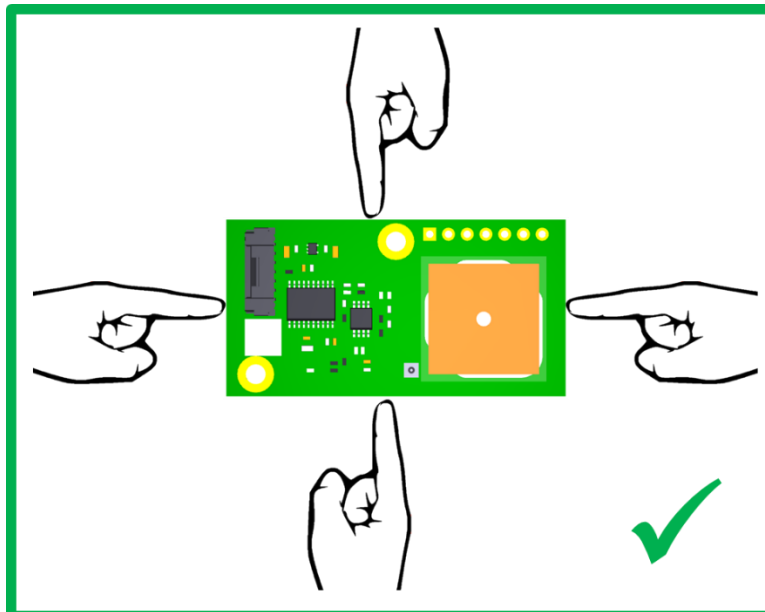
1 Mechanical Handling	2
2 ESD Precautions	3
3 Storage	3
4 Exposure to Chemicals	3
5 Important Notices	4
6 Headquarters and Subsidiaries	5
7 Revision History	5

1 Mechanical Handling

The SFA30 formaldehyde sensor module is a mechanically sensitive device. Handle with care at all times. Avoid exerting pressure or force on the brown top side of the sensor or the black bottom side of the sensor:



For handling or assembly, hold the sensor module at the edges of the PCB:



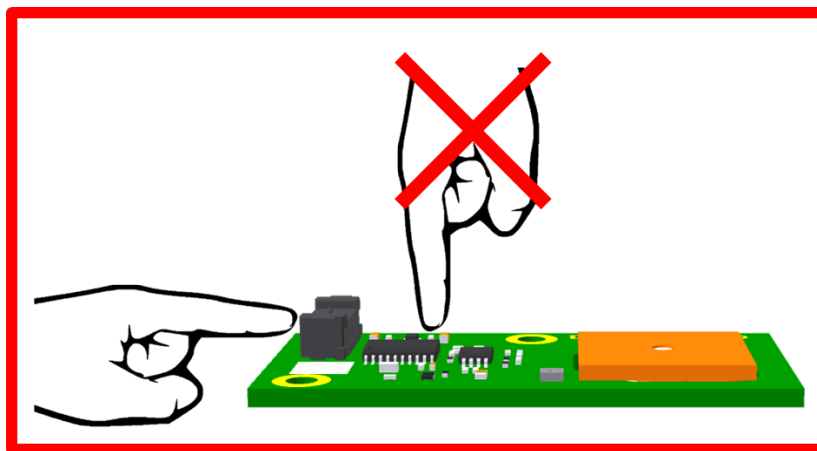
2 ESD Precautions

WARNING: The SFA30 formaldehyde sensor module is susceptible to damage by electro-static discharge (ESD). During handling and testing, suitable ESD precautions must be taken. Operators must always use proper ESD handling equipment.

Parameter	Rating
Electrostatic discharge voltage (human body model)	Class 1C (1000 V)
Electrostatic discharge voltage (charge device model)	Class C2a (500 V)

Table 1: ESD rating of SFA30. Reproduced from the SFA30 datasheet.

In particular, avoid touching the exposed electronics or the connector pins without suitable ESD protection.



3 Storage

Refer to the SFA30 datasheet for recommended storage conditions. Store the sensor in its closed original package in a clean and dry place.

Parameter	Rating	Unit
Recommended storage temperature	10 ... 30	°C
Recommended storage humidity	30 ... 70	% RH

Table 2: Recommended storage conditions for SFA30. Reproduced from the SFA30 datasheet.

4 Exposure to Chemicals

The SFA30 formaldehyde sensor module and its on-board Sensirion SHT humidity and temperature sensor should be protected from volatile chemicals, in particular at high concentrations.

The “*Handling Instructions for SHTxx Humidity and Temperature Sensors*” apply. The latest version of these handling instructions is available on the Sensirion webpage: http://www.sensirion.com/file/handling_instructions_rht.

Pay special attention to the relevant sections on “*Exposure to Chemicals*” as well as “*Packaging and Storage*”.

5 Important Notices

5.1 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.

5.2 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.

5.3 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
- the warranty period for any repaired or replaced product shall be limited to the unexpired portion of the original period.

This warranty does not apply to any equipment which has not been installed and used within the specifications recommended by SENSIRION for the intended and proper use of the equipment. EXCEPT FOR THE WARRANTIES EXPRESSLY SET FORTH HEREIN, SENSIRION MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT. ANY AND ALL WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED AND DECLINED.

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SENSIRION does not assume any liability arising out of any application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. All operating parameters, including without limitation recommended parameters, must be validated for each customer's applications by customer's technical experts. Recommended parameters can and do vary in different applications.

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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6 Headquarters and Subsidiaries

Sensirion AG

Laubisruestr. 50
CH-8712 Staefa ZH
Switzerland

phone: +41 44 306 40 00
fax: +41 44 306 40 30
info@sensirion.com
www.sensirion.com

Sensirion Taiwan Co. Ltd

phone: +886 3 5506701
info@sensirion.com
www.sensirion.com

Sensirion Inc., USA

phone: +1 312 690 5858
info-us@sensirion.com
www.sensirion.com

Sensirion Japan Co. Ltd.

phone: +81 3 3444 4940
info-jp@sensirion.com
www.sensirion.co.jp

Sensirion Korea Co. Ltd.

phone: +82 31 337 7700~3
info-kr@sensirion.com
www.sensirion.co.kr

Sensirion China Co. Ltd.

phone: +86 755 8252 1501
info-cn@sensirion.com
www.sensirion.com.cn

To find your local representative, please visit www.sensirion.com/distributors

7 Revision History

Date	Revision	Changes
October 2020	1.0	Initial version
November 2020	1.1	Pictures updated