

Application Note for SDP600 Series (SDPxxx)

Handling instructions

Summary

SDPxxx are differential pressure sensors of high quality. For taking benefit of their outstanding performance some precautions must be taken during storage, assembly and

packaging. Therefore, please read the following instructions carefully.

1. Processing the sensor

Storage

Storage environment should be free from dust.

Prior to assembly or use of the sensors it is strongly recommended to store the sensors in original ESD tray packaging. For sensors that have been removed from the original packaging we recommend to store them in ESD bags.

Storage temperature shall be in the range of 0°C to 50°C [32°F to 122°F] (-40°C to 80°C [-40°F to -112°F] for limited time).

Assembly

Assure that the ports of the sensor are well protected during assembly and soldering so that no dust, solder flux or other liquids can enter the flow channel.

Please obey the soldering instruction of the datasheet.

No **mechanical force** should be applied to any part of the sensor during assembly or usage. Especially, no force shall be applied to the sensor pins.

ESD (Electrostatic Discharge)

The sensor shall only be handled in ESD protected areas (EPA) under protected and controlled conditions (ground all personnel with wrist-straps, ground all non-insulating and conductive objects, exclude insulating materials from the EPA, operate only in grounded conductive floor, etc.). Protect sensor outside the EPA using ESD protective packaging.

2. Application in extreme environment

Avoid any kind of liquid, fatty and oil emulsive vapors inside the flow channel. It can not be guaranteed that in these cases the sensors have no drift.

Protect the sensor from dust, which could enter into the flow channel.

Make sure that in humid environment there is no condensation, which could occur inside the sensor.

The sensor is specified for operation in air and nitrogen. Please avoid aggressive or etching substances such as H₂O₂, NH₃, etc.

Application of Sensirion differential pressure sensors to harsh environment must be carefully tested and qualified. The user is responsible for **qualification of the sensor for use in harsh environment**.

Revision history

Date	Version	Changes
18.02.09	V1.0	Initial revision
June 2009	V1.1	Layout adapted and list of sales offices updated

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