

Handling of Sensoric Sensors

General Remarks:

1. Sensoric Sensor cells must not be exposed to temperatures outside the range -55°C to $+60^{\circ}\text{C}$. It is recommended to store Sensoric Sensors in the originally sealed packaging at $+4^{\circ}\text{C}$ to $+10^{\circ}\text{C}$.

However, sensors should be installed as soon as possible after receiving to take maximum advantage of the specified warranty period.

In general, the sensor storage time should not exceed the following recommendations:

- 4 weeks for sensors which are provided with up to 12 months warranty.
 - 8 weeks for sensors which are provided with more than 12 and less than 24 month warranty.
 - 12 weeks for sensors which are provided with at least 24 months warranty.
2. The Sensor must not be used in another mode than the one they are electronically designed for. For example, 3 electrode sensors must not be used as 2 electrode sensors. Performances of 3 electrode sensors used in a two electrode mode are unpredictable and therefore not covered by warranty.
 3. Sensoric Sensors must not be subjected to any pressure when handling.
 4. Sensoric Sensors must not be stored or assembled in areas which contain solvent vapors. Especially at high concentrations the organic solvents are known to cause:
 - blocking of the sensing electrodes
 - creation of false baselines
 - in some cases damaging of the electrodes
 - physical damage of the sensor body
 5. Sensors in which additional dust filter is used must not be stacked on top of each others in order to avoid a damage of the sensing electrodes.
 6. Sensors shall be installed with the sensors top (membrane/filter site) pointing downwards. Minimum requirement is to install the sensor with the sensors top (membrane/filter site) in a horizontal direction. It is not advisable to install the sensor with the top permanently pointing upwards in a fixed instrument. In a portable instrument, sensor top should be horizontal or pointing downwards for more than 12 h/day.

Sensor Calibration:

It is Sensoric's policy to pre-calibrate all Sensoric gas sensors prior to shipment with the target gas if technically feasible.

Typically, all shipped products are providing stable sensor characteristics as specified in the individual technical data sheets.

Nevertheless, environmental conditions in end users' application, legal requirements and the level of requested accuracy of the gas detection device towards the target gas are determining the frequency of re-calibration of the sensors. Typical ambient air monitoring of TLV levels require not more than one to two re-calibration cycles per year.

Driven by the reactive nature of some gases, a reliable calibration of sensors to the target gases under field conditions might be technically very difficult, if not impossible. More repeatable calibration results are typically obtained in controlled environments (e.g. laboratory conditions).