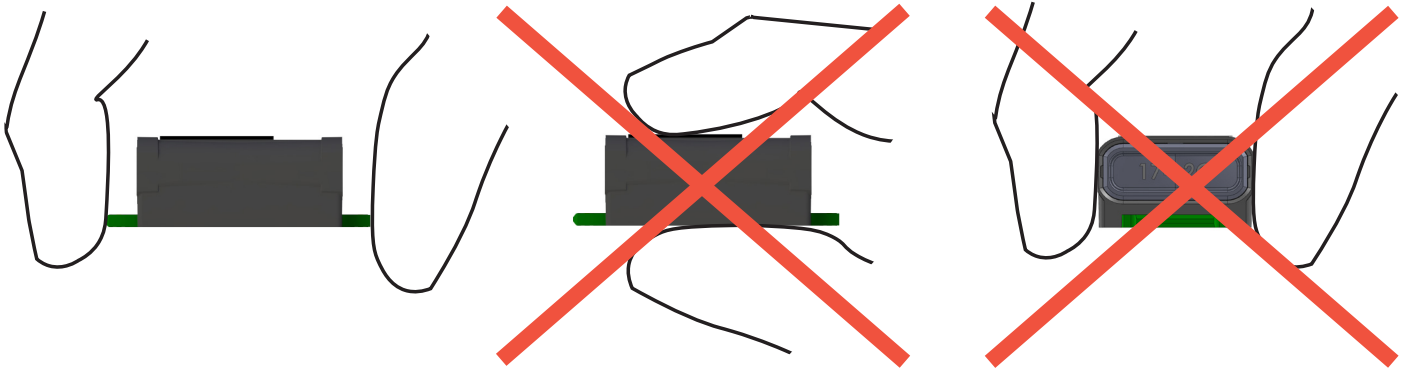


# Handling Manual

## Senseair Sunrise

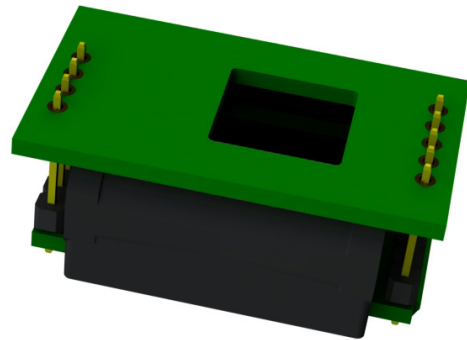
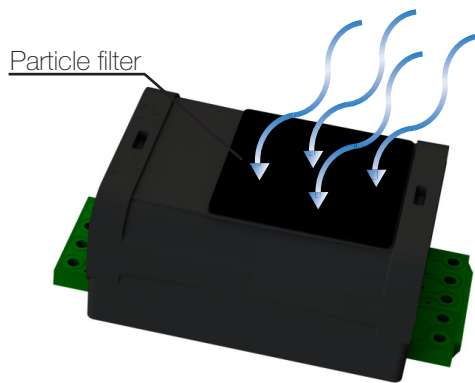
Miniature CO<sub>2</sub> sensor module  
with NDIR technique



NOTE:  
ESD sensitive product.  
Use ESD protection equipment.



NOTE:  
Handle sensor by holding PCB only.  
Never touch sensor with bare hands! Use clean gloves  
to avoid dust, grease or other contaminations.  
Sensor shall not be subjected to any force.



NOTE:  
To ensure airflow, and quick sensor response time to changes  
in environment: do not block particle filter!

### Installation and soldering

See IPC-J-STD-001 for acceptable soldering conditions in general.

Selective soldering machine (drag soldering method): soldering temperature 295°C during three seconds.

Hand soldering: soldering iron temperature 380°C during two seconds/pin.


To eliminate the risk to damage the OBA, soldering on the bottom side is recommended.

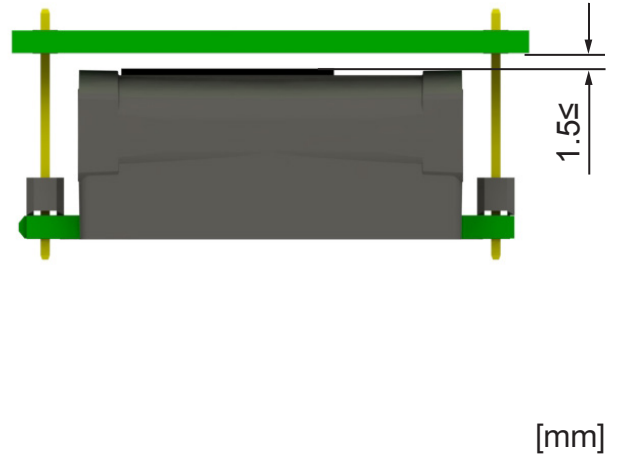
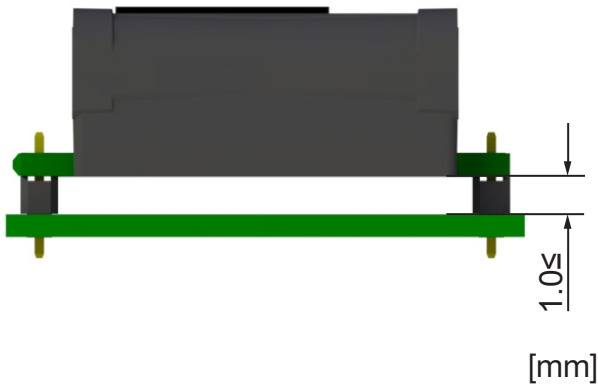
### Mechanical properties

Please refer to mechanical drawing for detailed specification of dimensions and tolerances.


### Layout considerations

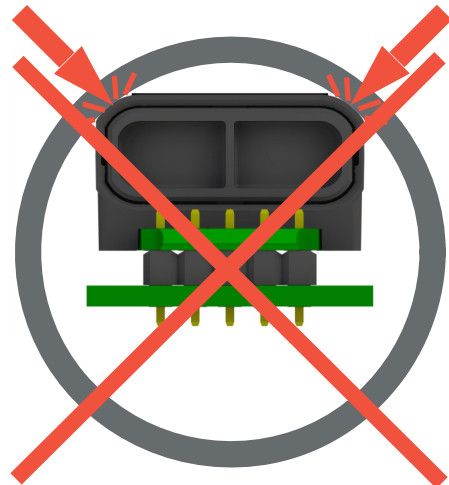
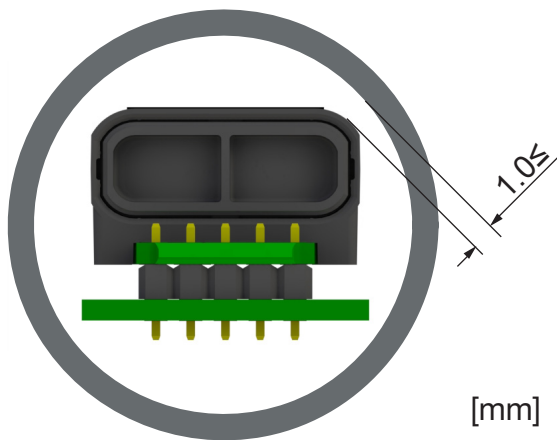
Use cut-outs or slits in main board to reduce mechanical stress to sensor due to board thermal expansion.

 NOTE:  
No gluing or potting on sensor.



 NOTE:  
1.0mm  $\leq$  minimum distance  
from sensor to cover/PCB.

 NOTE:  
1.5mm  $\leq$  minimum distance  
from particle filter to cover/PCB.



 NOTE:  
1.0mm  $\leq$  minimum distance  
from sensor to cover/PCB.

## Storage

Storage in sealed ESD bags.

Storage temperature: According to specification.

Requirements on storage environment: In normal IAQ environments corrosive environments are excluded.

## Inspection - verification

Transport, handling and assembly may affect calibration. Accuracy is defined after minimum three (3) ABC (Automatic Baseline Correction) periods of continuous operation with ABC in normal IAQ applications. Different options exist and can be customised depending on the application. Please, contact Senseair for further information!

Preferably, please inspect and perform zero calibration after any, or all, transports.