

Application Note

# Cold Room Operation

Gasporox GPX1500 Film Food is used for headspace oxygen measurements of food packages produced with modified atmosphere (MAP).

Production of meat or other food is sometimes done in a cooled environment. A typical temperature is then between 4°-10° C.

The Gasporox's non-destructive instrument GPX1500 Film Food is applicable for the operation in this kind of environment.



### Benefits

- Non-destructive MAP testing
- Reliable gas sensing
- O<sub>2</sub> or CO<sub>2</sub> measurements
- High or residual O<sub>2</sub> measurements
- User-friendly touch screen
- Parameter free

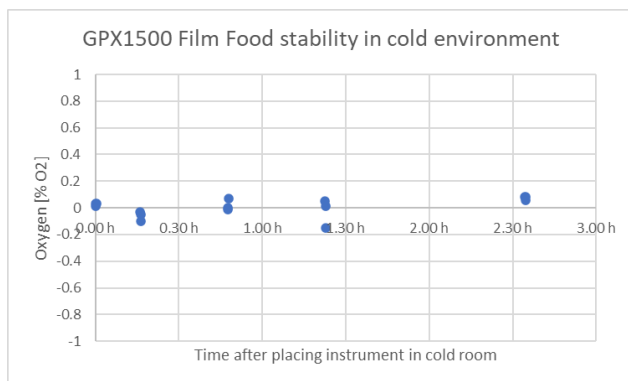
### Application Example

The instrument was placed in a cold room. Measurements have been taken during cooling down the instrument and at tuned in low temperature. This shows the behavior at normal temperature and when the instrument is temperature stabilized at the temperature.

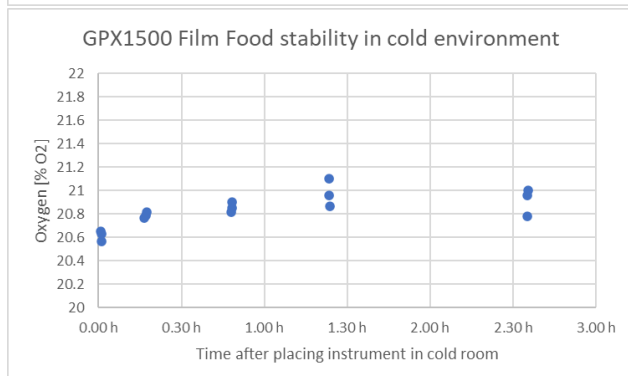
Product: Calibration bag 0% and air%  
 Gas: Residual O<sub>2</sub> in N<sub>2</sub>  
 Measurement time: 4 seconds  
 Sample handling: Placing bag manually on the instrument, 3 times each.

### Supported Packages

- Trays
- Flexible film bags
- Thermo formed bags
- Transparent measurement window >10x30 mm needed
- Content examples: Minced meat, cold cuts, salad, pasta, bread etc



0% bag does not show any change over the time measured



The Air bag has a slight increase of 0.3% O<sub>2</sub>. This corresponds to a relative error of only 1.5%.