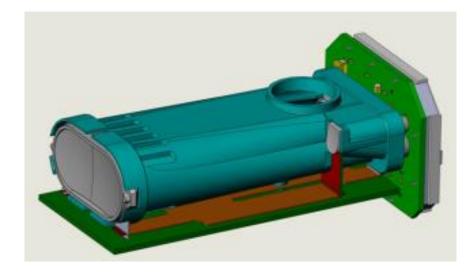
European Network on New Sensing Technologies for Air Pollution Control and Environmental Sustainability - EuNetAir COST Action TD1105 WG3-WG4 JOINT SCIENTIFIC MEETING Duisburg, Germany, 4 - 6 March 2013 Action Start date: 01/07/2012 - Action End date: 30/06/2016 Year: 2012-2013 (Starting Action) Henrik Rödjegård <u>SenseAir</u>®

Sensors for Life

WG Member

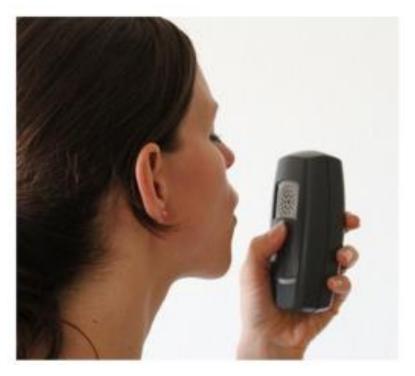
SenseAir AB / Sweden

- A spin off from our alco-lock development in cooperation with Autoliv.
- Robust and suitable for mass production.
- Sub-ppm resolution.
- Adaptable for other gases.
- The platform itself is a resource for the gas sensing community.



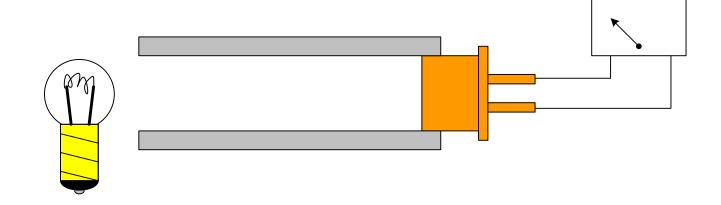


- No mouthpiece.
- No annual calibration.
- Operation temperature -40°C to 85 °C.
- < 20 s start-up time.</p>
- ppm accuracy during a test.
- 5 Hz measurement rate.
- Varying humidity.
- High production yield.
- Simple and low-cost production.



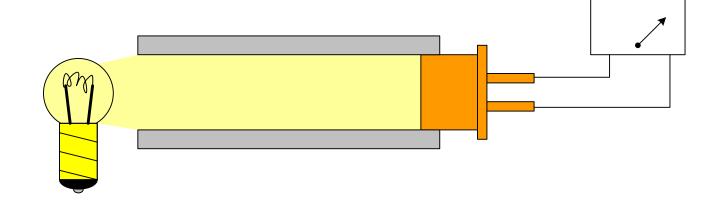


A reminder on NDIR technology...



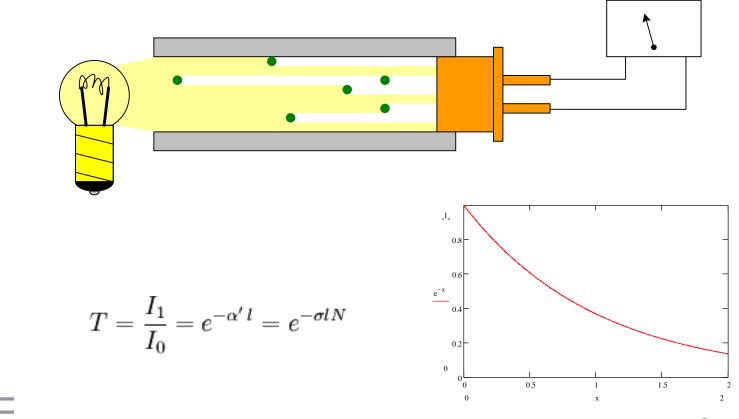


A reminder on NDIR technology...

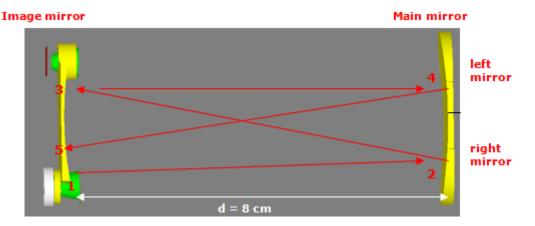




A reminder on NDIR technology...



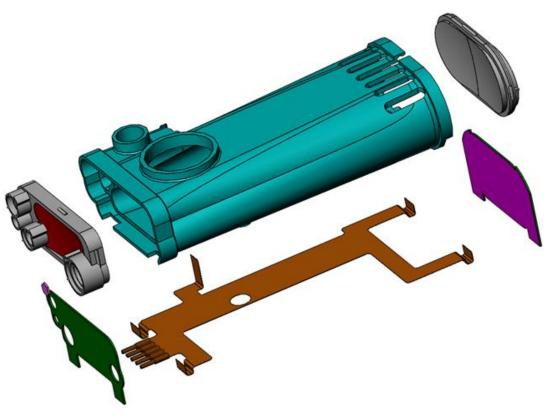
- White cell implementation.
- 1.28 m optical path.
- Stable and accurate plastic material (CRE).
- Temp. controlled optics.
- Electronics with high resolution, high stability and high electro magnetic immunity.
- Advanced measurement scheme and algorithms.





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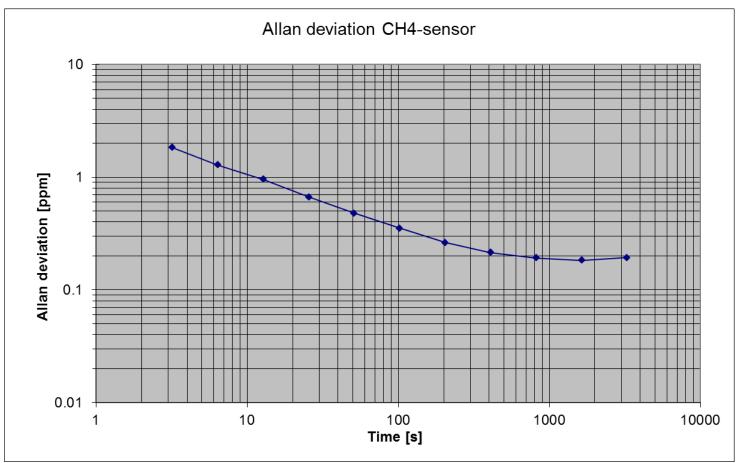




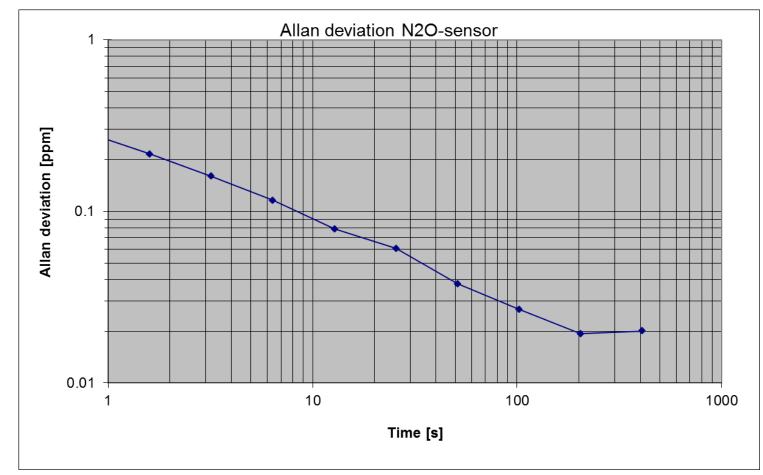
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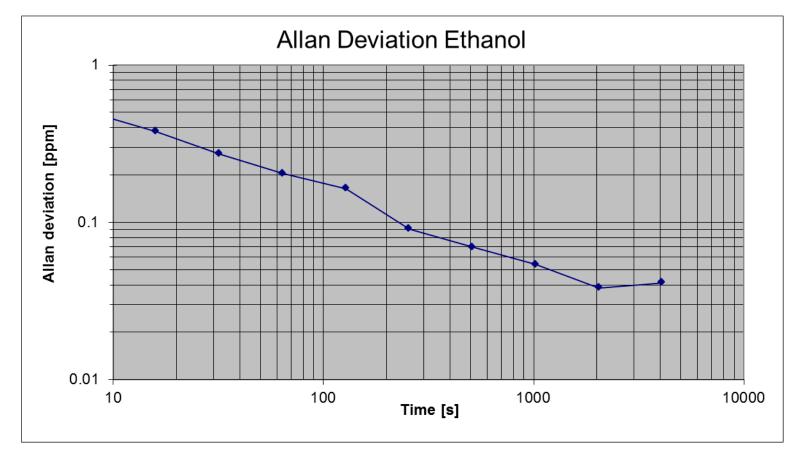
Allan variance – Methane



Allan variance – Nitrous oxide

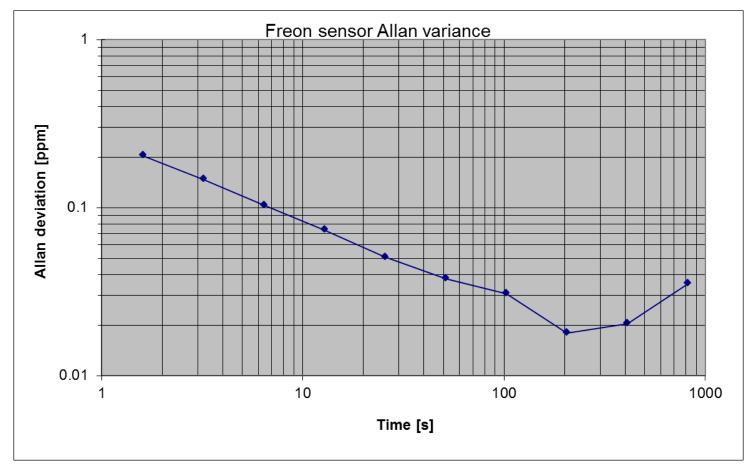


Allan variance – Ethanol





Allan variance – Freon (R134A)



What is next?

- CO2
- Ethylene
- · CO
- SF6
- NH3
- •



