

AIRSENSE Analyzer is a high-end electronic nose dedicated to on-line or off-line multi-component gas analysis by soft Ionized Mass Spectrometry.

System features

- ▶ Sub ppb sensitivity
- ▶ Real time on-line measurement
- ▶ Rapid sequential analysis

Applications

▶ **Environmental**

- Indoor air quality: direct monitoring of emissions, development of mechanic or catalytic purification systems
- Real-time assessment of materials in chamber or micro-chamber tests and without a need for thermo-desorption
- Compounds monitored are:
 - Aldehydes and ketones such as acetaldehyde, formaldehyde, acetone, etc
 - Alcohols such as ethanol, propanol, ...
 - (Poly)-Aromatic compounds such as BTXES and PAHs
 - Sulfur compounds such as methyl mercaptan, dimethyl mercaptan, dimethyle disulfide, H₂S, ethyl mercaptan
 - Amine compounds such as dimethyl amine, trimethyl amine, methyl amine
 - Aliphatic compounds such as alkanes and alkenes
 - CO and CO₂,
 - O₂, O₃
 - H₂O
 - Inorganic compounds such as N₂O, NH₃, NO, NO₂, SO₂
- **Automotive / Aircraft interior** - same applications as above
- **Food packaging / household packaging**
 - Detection of leaks / product conformity / cross contamination real-time on production line
- **Food & Ingredient research**
 - Real-time release of aroma in human or artificial mouth
 - Off-taste analysis
- **Diagnostics research**
 - Real- time breath analysis for various bacteria or disease detection (ex: lung cancer)

Service applications

- **Odor source trouble shooting:** identification of causes (which component or combination of components) and molecules

