

## Ambient Air Monitoring Systems

ECM systems for ambient air monitoring are usually built into air-conditioned thermally insulated containers. Monitoring stations can be stationary or mobile.



The usually monitored gaseous pollutants are:

- |                   |                    |                                 |
|-------------------|--------------------|---------------------------------|
| ➤ SO <sub>2</sub> | ➤ H <sub>2</sub> S | ➤ C <sub>x</sub> H <sub>y</sub> |
| ➤ NO <sub>x</sub> | ➤ TRS              | ➤ PAH                           |
| ➤ O <sub>3</sub>  | ➤ NH <sub>3</sub>  | ➤ HF                            |
| ➤ CO              | ➤ VOC              |                                 |

### Automated Ambient Air Mercury Analyzer

Mercury analyzer for continuous monitoring with unrivaled accuracy, sensitivity and reliability.

#### Key features:

- Low detection limit <0.1 ng / m<sup>3</sup>
- Internal permeation tube for automatic calibration
- Dual-channel gold absorber for continuous sampling
- Low operating costs



Aerosols are monitored in accordance with TSP, PM10, PM2.5 or PM1 regulations.  
Simultaneous monitoring and sampling of different fractions.

Certified dual-channel particle monitor combined with a certified sampler and an 8-channel optical module with continuous output of individual fractions.



Samplers allow the storage of aerosol samples for later analysis of heavy metals or other contaminants.



### **Aethalometer**

The Aethalometer TM is an ideal instrument for measuring the content of total or elemental carbon in airborne dust.

An aethalometer is an instrument that uses continuous sampling and optical analysis technology to measure carbon concentration in near real time.



### **OC/EC analyzers**

Thermal OC / EC analyzers with laser pyrolysis correction and compatibility with the standard NIOSH 5040 method.



### Ultrafine particle TSI monitor

Continuous monitoring of ultrafine particles (UFP) and air quality monitoring (SMPS).

#### Features and advantages:

- Designed for continuous operation
- Technology according to CEN / TS 17434
- Fast scan time
- Portable but also stationary
- No radioactive materials



Compact instruments for monitoring PM10, PM2.5 and PM1 airborne dust fractions.

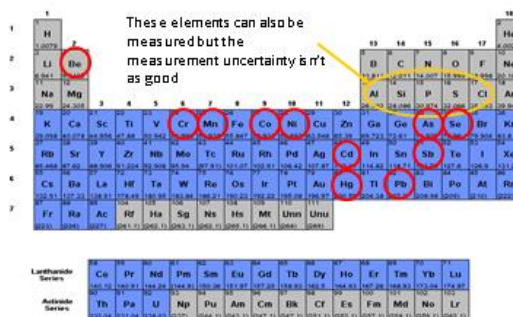
Particle counter allowing to define 16 size channels, with display of the number of particles and at the same time their mass concentration.

### On-line monitoring of heavy metals in dust aerosols

The device works on the principle of XRF and performs on-line analysis of metals contained in dust aerosols. It is designed for unattended continuous operation in air monitoring stations.



#### Elements Measured by the Xact



○ EPA Air Toxics PM Metals

### AQM 65

To increase the accuracy and stability of measurement the stations are equipped with internal air conditioning of the sensor space and heating of dust components for correct measurement even during foggy and rainy days. The reliability of the measurement of gaseous components is ensured by periodic calibration using reference gases from pressure cylinders.



### AQMesh

AQMesh monitoring modules are compact, allowing power from batteries or solar cells.

Information from the sensors is transmitted over the mobile network to a central server, where it is interpreted for pollutant concentrations and made available to customers via the Internet. The reliability of the measurement is verified by comparison with a reference monitoring station, where it adjusts the interpretation algorithms in the central server.



### DustTrak

If you are only interested in measuring airborne dust, simplified versions of stations are available that measure only dust, or dust and one gaseous component.



### Odor

In addition to the individual gaseous components, we often encounter interest in measuring odors. The human nose is more sensitive to some smelly substances than most devices.

Olfactometers are used to evaluate odorous substances and analytical instruments are also available for their continuous evaluation.



## Vehicle emissions

Air pollution from transport is a significant problem. New analytical instruments allow remote measurement of pollution from each passing vehicle during normal traffic.



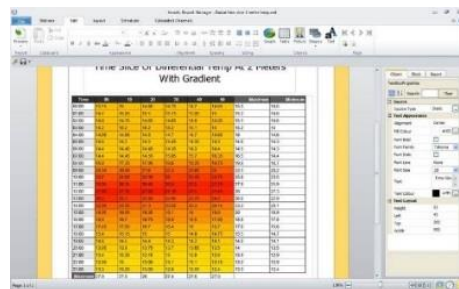
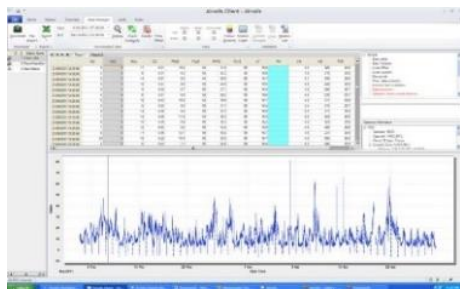
## Sampling for laboratory analysis

Reference sampling devices for dust or gaseous components make it possible to determine accurately the concentration of pollutants such as heavy metals, hydrocarbons and other pollutants in laboratories.



## Data systems

Data are collected via mobile networks, evaluated, archived and made available through information panels or the Internet.



For detailed information on any solutions of your interest we are gladly available on our below contact:

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