

Ambient air pollution monitoring

Reference monitoring station



Monitoring station

Stationary and mobile reference monitoring stations equipped with internationally certified analyzers for monitoring pollutants in the ambient air.

The objects are made of high-quality materials that guarantee a long service life and prevent problems with leaks, condensation, etc.



Standard pollutants

ACOEM Serinus analyzers for monitoring SO₂, H₂S, TRS, NO, NO₂, NO_X, NH₃, CO, CO₂, O₃.

The instruments are certified for reference monitoring systems. Calibrators, developers and other components required for integration of measuring stations are also available.



BTEX and VOC

Certified BTEX and VOC Chromatotec analyzers using PID or FID detectors. Their special version allows selective monitoring of sulfur compounds and odors. The analyzers can be equipped with built-in permeation calibrators without the need for calibration gases for station operation.



Mercury

TEKRAN analyzers for monitoring elemental, oxidized and particulate mercury.

A permeation calibration gas generator and a wide range of additional modules are available.



Solid aerosols

FAI analyzers and samplers for simultaneous monitoring and sampling of PM₁₀ and PM_{2.5} dust aerosols

This is the device that is in the best compliance with the prescribed parameters of all devices on the market.





Carbon content in solid aerosols

Aerosol continuous monitors for monitoring the carbon content of solid aerosols expressed as BC, OC and EC. The instruments are designed for continuous operation without the need for auxiliary media.



Sunset Laboratories reference laboratory and continuous analyzers for monitoring OC and EC in solid samples. These instruments use a methodology that closely matches the European methodology for reporting organic and elemental carbon components in particulate matter.



Metals in solid aerosols

Cooper continuous analyzers for multicomponent monitoring of metal content in solid aerosols.

These devices use the principle of X-ray fluorescence. The device is calibrated annually online in cooperation with the manufacturer using special foils.



Ultrafine particles

TSI devices for continuous monitoring of ultrafine particles in ambient air starting from 1 nm in size.



Aerosols in the atmosphere

3-wavelength integrating nephelometer ACOEM AURORA for detailed climate studies based on the influence of aerosols on the optical properties of the air. This is an instrument that is also standard for ACTRIS projects.



Radiometers, photometers and lidars Cimel for remote sensing of aerosols in the layers of the atmosphere.

The instruments are also used within the ACTRIS projects.



Indicative monitoring

Aeroqual compact station for indicative air pollution monitoring with accuracy close to reference methods.

The station can be equipped with a dilution autocalibration unit using gases from small pressure cylinders. A great advantage of the station is the continuous zero value correction.

This is a station that is on the list of recommended devices by the US EPA.

Indicative monitoring stations with solar power used in many international projects.

The stations can be equipped with a wide range of sensors for gaseous pollutants, noise and meteorological components.



Odors

Instrumentation for online odor monitoring as well as olfactometric devices for reference odor level assessment.

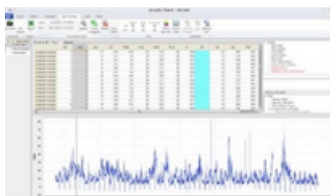
Compact odor sensors are also available, even in a drone-mountable design.



Transport

OPUS mobile and stationary equipment for monitoring pollutants in the exhaust gases of each passing vehicle.

The system allows you to identify vehicles that significantly contribute to air pollution.



Data systems

Data systems for interpretation, visualization and archiving of data captured by monitoring equipment.