

„Smart City“ ambient air monitoring system

ECM Group is supplier of certified ambient air monitoring systems, but for informative monitoring for public these systems may found be too bulky, expensive and requesting too much attention. For such applications we supply monitoring systems based on compact sensor modules.



The most commonly monitored gaseous pollutants are:

- | | | |
|-------------------|--------------------|--------|
| ➤ SO ₂ | ➤ H ₂ S | ➤ CxHy |
| ➤ NOx | ➤ TRS | ➤ PAH |
| ➤ O ₃ | ➤ NH ₃ | ➤ HF |
| ➤ CO | ➤ VOC | |

These instruments allow monitoring of gaseous pollutants SO₂, NOx, NO₂, O₃, CO, CO₂, VOC, H₂S, and also of PM₁₀ and PM_{2.5} dust.

AQM 65

To improve accuracy and stability, sensor modules of these instruments are in a conditioned compartment. Air sample intake of the optical dust monitor is heated to avoid interferences on foggy and rainy days.

Periodic calibration using gas cylinders allows consistent and accurate monitoring.



AQMesh

Compact monitoring pods allow an easy installation with battery or solar powering

Sensor information is Cloud connected to a central server for proper interpretation in terms of concentration units and smart Internet access for the clients.



DustTrak

If only dust measurement is requested, the job can be done by simple stations. Extension for an additional gas compound is possible.



Odors

Besides of monitoring of conventional pollutants monitoring of odors may be also requested. The human nose is more sensitive for inconvenient odors than most of gas analyzers. Odors are evaluated by olfactometric methods. There are also on-line odor monitoring instruments available. Olfactometry is used as a method to calibrate the interpretation software then.



Car Exhausts

Significant part of ambient air pollution originates from car exhausts. New instrumentation allows remote on-line monitoring of exhaust gas and particle composition of each passing vehicle in normal street traffic.



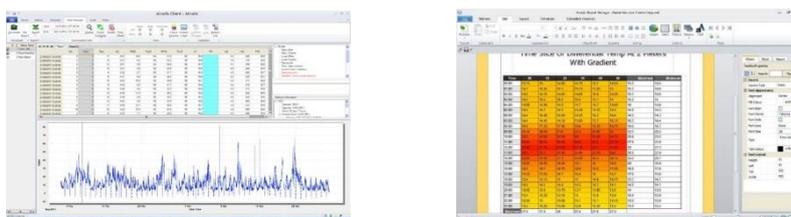
Samplers

Gas and particle samplers allow later exact determination of gaseous and air born pollutants in laboratories.



Data Systems

Data are collected via cloud systems, interpreted, stored and presented on public display panels or internet.



For detailed information on solutions of your interest we are gladly available:

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