

**ECM Group** operates since 1991 a network of subsidiaries in 20+ countries providing key-turn systems and individual instruments for environmental and process monitoring of off gases, liquids and particles.



**Main activities of the ECM Group:**

- Ambient Air Monitoring
- Water quality monitoring
- Continuous stack gas emission monitoring systems
- Working area monitoring
- Clean room solutions
- Industrial gas monitoring solutions
- Process gas / liquid monitors
- Particle analyzers
- Level and flow monitors



**The main supported areas:**

- Ambient air monitoring networks
- River and Harbor authorities
- Stack gas monitoring
- Power generation
- Food and beverage industry
- Chemical industry
- Oil refineries, gas and petrochemical industry
- Paper / cellulose industry
- Pharmaceutical industry
- Municipalities and regional authorities
- Nanotechnologies
- Waterworks
- Metallurgic industry
- Semiconductor industry



**Water quality monitoring**

- Compact multicomponent systems
- Complex stations
- Process water
- Boiler water
- Oil in water
- Samplers
- Ultrapure water



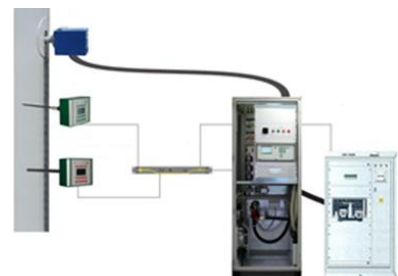
### Ambient air monitoring

- Certified analyzers for monitoring of SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>S, TRS and NH<sub>3</sub>
- BTEX and VOC analyzers
- Dust aerosol monitors and samplers
- EC / OC analyzers
- Carbon Black analyzers
- Heavy metal content in ambient dust monitors
- Compact multicomponent monitoring stations for SO<sub>2</sub>, NO, NO<sub>2</sub>, CO, CO<sub>2</sub>, hydrocarbons, dust, noise and meteorology
- Data systems and dispersion modelling



### Continuous stack gas emission monitoring systems

- QAL1 certified monitoring of gaseous pollutants, particles and flow
- Acid dew point monitors
- Isokinetic sampling trains for reference particle concentration and content of dioxins, furans, metals and acids
- Portable flue gas monitors



### Working area monitoring

- Portable detectors
- Stationary systems
- Personal samplers
- Compact calibrators
- Heat stress monitors



### Clean room solutions

- Portable and stationary particle counters / sizers
- Monitoring of microbial activity
- Biodecontamination systems
- Filter testers
- Particles in pressurized industrial gases
- FMS Data systems



### Industrial gas monitoring solutions

- Cryogenic air separation units
- Medical gases
- Gases for food and beverage industry
- Cleanness / contamination of O<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>, Ar and other gases



### Process gas / liquid monitors

- O<sub>2</sub> / CO monitoring for optimization of combustion processes
- NDIR / UV analyzers for different compounds
- NIR, FTIR, Raman multicomponent analyzers
- Physical property analyzers for oil refineries
- Oxygen analyzers based on paramagnetic, optical or electrochemical methods
- Monitoring of heat value and Wobbe index of gas mixtures
- Moisture analyzers
- Absorption, dispersion and refraction based liquid analyzers
- Viscosity monitors
- Monitoring of heat value, moisture, ash, and composition of coal and minerals on conveyor belts



### Particle analyzers

- Particle counters / sizers for atmospheric research, working area and nanotechnologies
- Ambient dust monitors
- Portable instruments
- Filter watch systems
- Particle samplers



### Level and flow monitors for gases and solids

- Ultrasonic and radar level monitors
- Level measurement across the tank wall
- Flow monitors based on thermal conductivity, ultrasonic, radar and dp methods



### Other solutions

- Optimization of combustion processes
- Heat tracing for different applications
- Filter watch
- Clean room decontamination
- Automatic samplers of bulk materials, liquids and gases for laboratory analysis

