

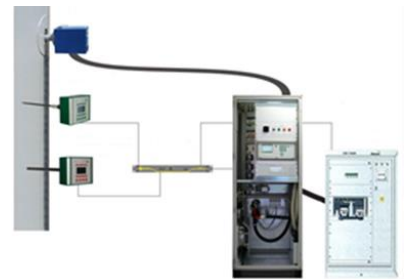
Monitoring Solutions for Automotive Industry

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.



Continuous Emission Monitoring (CEMS)

European legislation requires continuous monitoring of emissions. These are usually SO₂, NO_x, CO, CO₂, O₂, particle and flow. Monitoring can be extended to HCl, HF, NH₃, TOC, and mercury compounds. The devices must meet the QAL1 certification conditions. CEMS data systems must be reliable, secure and fulfill all the regulatory requirements.



HSE monitoring

- Toxic gases in indoor air
- Particles in working area
- Breath protection mask training tools
- Monitoring of filters



Ambient air monitoring

- Certified analyzers for monitoring of SO₂, NO_x, CO, CO₂, H₂S, TRS and NH₃
- 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 SO₂, NO, NO₂, CO, CO₂, hydrocarbons, dust, noise and meteorology
- Data systems and dispersion modelling



Water quality monitoring

- Monitoring for optimal WWTP control
- Effluent from paint shops and other production areas
- Plant inlet water from wells and public sources
- Ultrapure water
- Samplers for laboratory analysis
- Flow and level monitoring in pipes and open channels



Paint Shop monitoring

- Monitoring of paint material density
- Flow particle content in painting chambers
- Vapors in indoor air
- Organic pollution of the effluent water
- Organic content of the venting air
- Flame detectors for the firing varnish conveyor



Clean room monitoring

- Monitoring of critical particle fractions
- Optical component assembly
- Engine assembly
- Painting Cabinets
- Battery manufacturing



Battery manufacturing

- Hydrogen in indoor air
- Purity of hydrogen and other industrial gases
- Water in dielectric liquids
- Particle content in atmosphere
- Refractometers for liquid content and coolant monitoring



Process Liquids

- Lubricating emulsions for cutting tools
- Texturing and etching
- Oil content in cooling systems
- Water in lubricant oil



Powders and granulates

- Flow switch
- Mass flow monitoring
- On-line size categorization



PEMS (Portable Emission Monitoring System)

PEMS was designed for vehicle exhaust gas measurement during the drive.

The equipment is exactly corresponding to applicable European standards. The monitored compounds are CO, CO₂, NO, NO₂, Hydrocarbons (methane / non methane options using FID analyzers) and particles.



Monitoring of Flow, Quality and Leak Detection for compressed air and gases

- Thermal mass flow, differential pressure and vortex sensors for measurement of flow and consumption
- Portable leak detector with a camera
- Portable and stationary dew point meters
- Residual oil content measurement and particle counters
- Pressure sensors
- Software for recording and evaluating data from a wide range of measured values



Main References are:

- Škoda (Czech)
- Hyundai (Czech)
- VW (Slovakia)
- KIA (Slovakia)
- Audi (Hungary)
- Daimler Truck (Germany)
- MAN (Germany and Austria)
- Volvo (Sweden)
- Jaguar Land Rover (Slovakia and UK)
- Suzuki (Hungary)

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

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