

Analytical solutions for metallurgy

Gas analysis

- Concentrations of O₂, CO, CH₄ and H₂ in the atmosphere of furnaces and coke oven gases
- Optimization of combustion processes
- Monitoring the start of blast furnaces
- Monitoring of inertization processes
- Flow of coke oven, blast furnace and torch gases
- Steam flow
- Compressed air flow
- Monitoring the Claus process
- Measurement of purity of technical gases
- HF monitoring in aluminum foundries
- H₂ tracking
- Steam flow
- Compressed air flow



Fluid analysis

- Hydrocarbon leakage monitoring
- Composition of lubricating emulsions
- Monitoring of galvanizing processes
- Monitoring of the wastewater treatment process
- Composition of solutions in the processing of copper and metallurgy of other non-ferrous metals
- Staining monitoring during surface treatment
- Foam height on conductive and non-conductive liquids



Particle analysis

- Identification of damaged filter sleeves
- Monitoring the efficiency of filtration systems
- Particle monitoring in the work environment
- Measurement of TZL emissions



Flow and pressure monitoring

- Attached flow meters
- In-situ flow meters
- Powder and granulate flow meters
- Vibration resistant pressure gauges



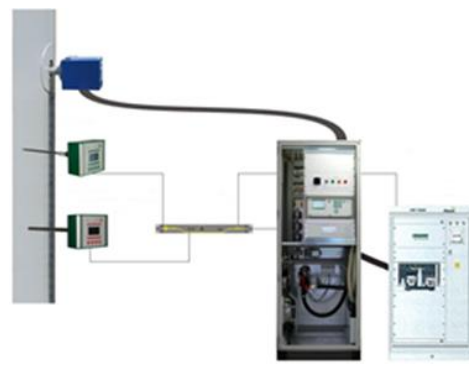
Humidity monitoring

- Dew point and humidity of gases
- Water content in liquids
- Moisture of solids



Ecology and working environment

- Automatic emission monitoring systems with QAL1 certification according to EN14181
- Monitoring of immissions in ambient air
- Monitoring of toxic and explosive gases in the working environment
- Toxic gas detectors calibrators with internal by developing a calibration gas
- Respiratory protection testers
- Monitoring the dustiness of the working environment
- Scattering models for cases of dangerous leaks



Others

- Flame detection
- Optimization of combustion processes
- Route heaters and fittings
- Comprehensive monitoring of the operation of blast furnaces, steelworks, foundries, coke ovens, aluminum plants, production of copper and other non-ferrous metals
- Monitoring systems for monitoring metal recycling
- Monitoring of rolling equipment
- Monitoring the condition of lubricating oils in transmission mechanisms
- Continuous monitoring of ore and coal composition



We supply turnkey analytical solutions, including the design and planning of sampling systems and connection to data systems.

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

ECM ECO Monitoring, a.s.
Nevádzová 5, 821 01 Bratislava
Slovak Republic

Tel.: +421 2 4342 9417
E-mail: ecm@ecm.sk
www.ecmonitoring.com