

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



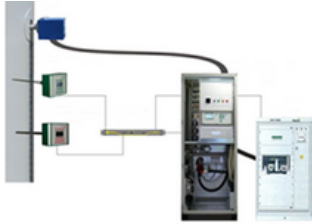
Flow and pressure monitoring

- 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.