

Analytic Solutions for Chemical, Petrochemical and Food Industries



Gases

- Trace and percent level oxygen content of different gas mixtures
- UV and IR absorption based monitoring instruments
- Wobbe Index, Air Demand, and Heat Value analyzers
- Process gas chromatographs
- Moisture and dew point monitors
- Clamp on flow and heat transfer monitors
- Moisture independent thermal conductivity flow monitors for process, biogas, flare gas and waste gas applications
- Biogas, waste gas and flare gas, content monitoring



Liquids

- Ultrasonic, refractometry, conductivity or spectrometry based liquid content monitors
- Monitoring of turbidity, color, viscosity, crystallization and polymerization of different liquid media
- UV, NIR, FTIR or Raman based composition monitoring of liquids
- Hydrocarbon in water and watercut monitoring
- Physical property monitoring (freezing point, flash point, distillation curve, etc.)
- Sulfur content
- Level and flow measurement
- Foam height on conductive and dielectric liquids



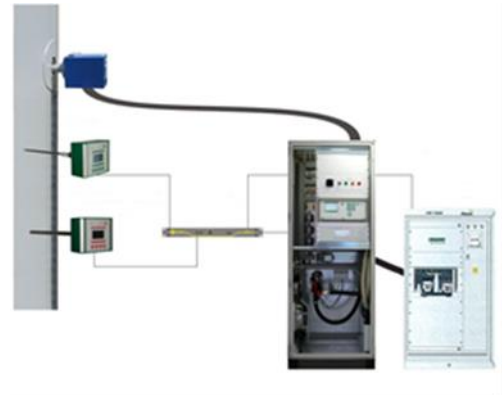
Particles

- Identification of failing filter sleeves.
- Performance of filtration systems
- Working area particle monitoring
- Clean room particle and viable content monitoring
- Particles in process gas streams
- Particle counters for membrane filter monitoring
- Particle sizes for identification of bacteria in water tanks and pipes
- Spray drying process monitoring



Environment and working area

- Continuous Emission Monitoring Systems with QAL1 cert due to EN14181
- Ambient air and fence line monitoring
- Toxic and flammable gases in working area
- Gas detector calibrators and bump testers with internal gas generation
- Testing of breathing protection
- Waste water sewers, effluent and wwtp monitoring



Others

- Flame detectors
- Acid gas and DENOX process monitoring in flue gases
- Complex monitoring systems for Nitrogen, Chlorine, Ethylene, Pharma, Petrochemical paper/Pulp, Food/Beverage, Detergent and fermentation processes
- Combustion process optimization
- Clean room disinfection
- Trace heating and fittings



ECM is offering consultancy, engineering and key turn delivery including sampling systems and data connection.