Online analyzer on a biogas reactor at VEAS

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AnaSense® Anaerobic Control Analyzer
- Continuous monitoring of the AD process
- Enabling higher loading rate for maximum CH₄ production
- Prevention of digester failure due to VFA accumulation
- Easy implementation within a dynamic control strategy
- Easy integration into corporate networks

Sample Preconditioning
- Sampling
- Filtration
- Extraction

Critical AD process parameters
- Volatile Fatty Acids
- Biogas
- Total alkalinity
- Partial sludge
- Ammonia
- pH
Installation of an online analysator at AD reactors at VEAS (largest WWTP in Norway)
Possible uses of the analyzer:

• Monitoring the reactor state ("health") online.
• Replacing or supplementing manual laboratory analysis
• Measurements for feedback control of alkalinity ratio (FOSTAC) and/or VFA concentration
• Continuously updating a model-based soft-sensor (i.e. a state estimator in the form of a Kalman Filter algorithm)
• Obtaining continuous data for subsequent adaption of appropriate mathematical models
Demo:

Remote login to the PC used for monitoring the analyzer (with LogMeIn)