



SensoTech Case Study

Scrubber at CABB in Pratteln (CH)



Facts on CABB Group

- 1,100 employees
- 6 production facilities worldwide
- Turnover: 520 million euros (2019)
- UN Global Compact Participant
- Established in 2003

CABB AG in Pratteln/Switzerland is part of the Custom Manufacturing business unit of CABB Group. Starting from chlorine and sulfur, reagents, intermediates and highly complex individual molecules are manufactured in an integrated production system. The combined system includes the recovery of by-products and waste gases, for example in gas scrubbers.

For years CABB used a laboratory based analysis of process samples for monitoring the wash liquid in gas scrubber systems. Since 2020, CABB relies on the LiquiSonic® inline measuring system. Monitoring of the gas scrubber is now safer and more effective. Through the installation of the online measurement system, manual sampling and a laboratory based analysis is no longer needed. Thereby CABB could reduce the costs incurred during monitoring of the scrubber liquid.

Additionally, in contrast to a laboratory based analysis the online measurement system allows for a rapid identification of operation states. Thereby CABB could substantially enhance the reliability of the process.



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The LiquiSonic® 40 analyzer was taken into operation at NB plant in Pratteln (CH) in October 2020. The controller and transmitter are safely installed in a field housing IP56. Users can easily monitor caustic soda (0-20 wt%) and sodium sulfite (0-10 wt%) simultaneously.

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LiquiSonic® controller with plastic field housing



The sonic velocity sensor and the conductivity sensor are installed in the circulation line easily using customer-specific process adapters supplied. The second stage of the gas scrubber is a safety-relevant measuring point and can now be monitored inline with real-time values with the highest accuracy and, if necessary, replenished.

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LiquiSonic® inline sensor

“Before we installed the LiquiSonic® online measurement System, monitoring of the scrubber liquid occurred via a cumbersome laboratory based analysis of process samples. Although the analysis provided good indications of the state of the scrubber liquid, the results were only a snapshot at a specific point in time. Since we installed the online measurement system, our operators receive real time information about the state of the scrubber liquid and can react if the system reaches undesirable operation states. This substantially enhanced the reliability of the process and also provided us with new insights into the behaviour of the gas washer system during operation. For us at CABB, environmental protection is a daily topic. With LiquiSonic®, we increase our process reliability and give a real boost to environmental risk management.”

Dr. David Scholz
Plant Chemist at CABB AG