

Reference

Monitoring of the Chlorine gas concentration

the company

Bayer Technology Services GmbH, a Bayer AG company, is a capable supplier of technology solutions for the chemical and pharmaceutical industries. Bayer Technologies has more than 2400 employees world wide, 145 are based in Krefeld.



Bayer Technology Services

the problem

The chlorine gas concentration in the off gas of the plant's internal gas treatment plant has to be monitored. The instrumentation used so far was to be replaced due to intolerable drift. The measuring range is 0-10ppm Cl₂.

the challenge

The measurement must work reliably in the present of traces of sodium hydroxide and changes of temperature, flow and pressure. At the hitherto existing measuring instrument there is a drift produced from sodium hydroxide traces, ambient temperature changing, flow and pressure dependency.



our solution

The chlorine gas measurement is done with the Kuntze K 100 W GAS CL₂. This is an amperometric gas measurement with a 3-electrode-sensor. Low impact of humidity changings and high reliability are main characteristics of this measurement. Two sensors can be connected to the instrument and each is allocated with two limit values operating two relays.

The automatic sensor test checks the electric output of the sensors regularly and defective sensors or connections are indicated via error messages.

Customer's feedback

„The drift is not present with the Kuntze measurement and the calibration values are in the tolerance ranges. Installation and set-up of measuring instrument and sensor were easy to handle. The measurement with the K 100 runs perfectly. The measuring instrument reacts directly to changes in chlorine gas concentration. The company Kuntze has proofed as professional partner. We are perfectly confident with the measuring system itself as well as with the service of the company Dr. Kuntze.“
Ralf Froese, BTS-PMT PAT SUER,
Technical factory adviser

