



DR. A. KUNTZE
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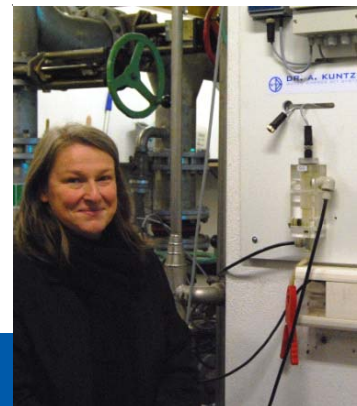
Chlorine warning system waste water outlet paper factory

The problem

The paper factory has its own biological treatment plant. To prevent that Chlorine from the disinfection process gets into the biological tank via floor drains and destroy the bacteria, the inlet into the treatment plant should be equipped with a Chlorine warning system

The challenge

- The water contains not only particles but also fibers from the paper production which tend to stick to all exposed surfaces
- The water contains normally no disinfectant, and the high organic load provides ideal conditions of growth for microorganisms, so that the biofilmevolve quickly in the flow cell and around the sensor



Our solution

The measurement uses sensors with gold electrodes in direct contact with the test water. The system contains no membranes that can clog or tear. The new single-rod design allows installation in a simple, wide-spaced flow cell to reduce precipitation. The metal electrodes are cleaned automatically and daily by our patent-pending Automatic Sensor Cleaning ASR. This maintains the sensors activity even in absence of disinfectants, so that a sudden Chlorine concentration is immediately recognised and an alarm is set off.

Customer's feedback

„Measurement and automatic cleaning work efficiently from day One. Each manual Chlorine dosage, carried out once per week, gave a sharp signal peak, and the metal electrodes were always clear. We are quite pleased with the product and with the collaboration with the company Dr. A. Kuntze GmbH.“
Dipl.-Ing. Andrea Klar, CEO FiltoTec



Delta-pH-measurement for decarbonisation control, water treatment plant Hofheim

The problem

The drinking water sources of Hochheim in the German Taunus region contain high amounts of aggressive carbon dioxide that have to be removed by means of a stripping process. Since the water is a mixture from various wells, the carbon dioxide content varies, and the deacidification has to be adapted to the changing requirements.



Our solution

The stripping process is controlled with a measuring system K400 delta-pH by Dr. A. Kuntze GmbH. This ready-to-use Automatic Analyser measures the carbon acidity via delta-pH measurement according to DIN 38404-C10. Due to a periodic and automatic alignment of the two pH sensors the Analyser requires very little maintenance.

customer's feedback

„Measurement and control work efficiently. Maintenance is carried out twice per year by Dr. A. Kuntze. We have made positive experience with both the product and the company.“

Dipl.-Ing. Olaf Mewes, technical manager Water treatment



Reference

Hydrogen Peroxide control in an air scrubber, waste water plant, Hochheim

The problem

The waste water treatment plant of Hochheim, built after the second world war and expanded ever since, has recently been supplemented with an air scrubber, to spare the recently constructed residential area the odour nuisance. Inlet and the first treatment basin were roofed in, and the air is treated in a three-step scrubbing process according to VDI 2443. The concentration of the oxidant – hydrogen peroxide – should be monitored and controlled by online measurement.

The challenge

- High pH values – between pH 10 and pH 12, depending on the pollution
- High amounts of pollutants both in dissolved and suspended form

Our solution

The measurement uses sensors with platinum electrodes in direct contact with the test water. The system contains no membranes that can clog or tear. The new single-rod design allows installation in a flow cell with high throughput and little flow resistance, so that particles do not precipitate in the flow cell. Large openings prevent clogging of the flow cell. The metal electrodes are cleaned automatically and daily by our patent-pending Automatic Sensor Cleaning ASR.



Customer's feedback

„Measurement and control work efficiently since this system was installed. Up to now we have done no maintenance at all. This was our first contact with Dr. A. Kuntze GmbH, and we are quite pleased with both the product and the company.“

Gerd-Stefan Mentges, manager of the plant and representative of the Rheingau-Taunus division of the German Association for Water, Waste Water and Waste, DWA.

