

Reference

Biocide concentration monitoring in cooling water of research reactor, TU München

The problem

The cooling water of the research neutron source Heinz Maier-Leibnitz (FRM II) of the Technical University Munich in Garching is treated with a biocide to prevent microbial contamination. The photometric online measuring system used up to now was considered to be demanding with regard to cost and maintenance and should be replaced by a low-maintenance system.

The challenge

- The particle load of the cooling water must not lead to increased maintenance



Our solution

The monitoring of the biocide concentration uses electrodes instead of a photometric method. It needs no chemicals and contains no thin tubes or other components that are easily blocked and difficult to clean. The metal electrodes of the sensor are in direct contact with the water, and our patented automatic cleaning procedure keeps them clean without manual maintenance.

The new single-rod design of the sensors allows installation in a flow cell with high throughput and little flow resistance, to minimise precipitation of particles in the flow cell.



Customer's feedback

„The new system shows the same measurements as the old one without the latter's high demand of maintenance. The savings on manual work cover the expected expenses on replacement sensors many times over. This was our first contact with Dr. A. Kuntze GmbH, and we are quite pleased with both the product and the company.“

Roland Schätzlein, Head of department electrical engineering and process control

