

From analysis to solution

KROHNE Water Solutions – Analysis measuring technology for water and wastewater applications at Interkama 2008

Many industrial processes require reliable water treatment. Constant monitoring of the relevant parameters for the feed water is crucial to ensure profitable and safe operation of facilities and indispensable when it comes to guaranteeing consistently high product quality.

And the efficiency of wastewater treatment facilities depends on the use of harmonized measuring and control technology.

With the OPTISENS product line, KROHNE offers a wide range of analysis measuring technology for both applications.

ASR – automatic sensor cleaning.

The formation of deposits on analytical sensors has a considerable impact on their lifespan and measurement accuracy. The new ASR process creates outgassing on the electrode surfaces of the OPTISENS 1000 chlorine sensor. This removes even tough coatings and considerably lengthens maintenance intervals.



OPTISENS 1000

Integrated spray cleaning on OPTISENS 2000 sensors.

In many wastewater applications, such as primary treatment and final sedimentation or during biological treatment, measuring devices are often subject to heavy biological growth or ragging. All sensors of our OPTISENS 2000 series feature integrated spray cleaning using air or water, to ensure optimum measurement accuracy over long periods. The large sensor diameter – without any deadlegs – prevents ragging.



OPTISENS 2000

Ammonium and nitrate measurement with ISE – ion-selective electrodes technology.

The OPTISENS PAM 2080 measuring system allows direct, continuous measurement of ammonium and nitrate concentrations, e.g. in aeration basins of municipal sewage treatment facilities. The use of directly immersed electrodes eliminates the need for sample preparation or reagent addition. Compensation of interfering ions, self monitoring, automatic cleaning and simple installation and operation make the OPTISENS PAM 2080 the most reliable solution for this measurement task.



OPTISENS 2080

Easy recalibration of the OPTISENS OAM 1050 turbidity measuring system

The OPTISENS OAM 1050 utilizes reusable standard cuvettes for calibration. The sealed cells contain turbidity standards with the values 0,02, 10 and 100 FNU and are simply inserted into the measurement chamber instead of the measuring cuvette.

This means that calibration takes just a few minutes. There is no longer a need for liquid calibration standards, which are difficult to handle and susceptible to errors



OPTISENS 1050

Customer-specific solutions and special parameters

In addition to the standard products, the KROHNE measuring technology range of products can also be expanded as per customer specifications to include system components such as samplers, mounting plates and cabinets.

KROHNE also offers measuring systems for the following special parameters:

- Hydrogen peroxide and ozone in disinfection applications,
- Fluoride and sodium in drinking water applications,
- Chloride, ammonia, nitrate, calcium, copper and lime in water applications.

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