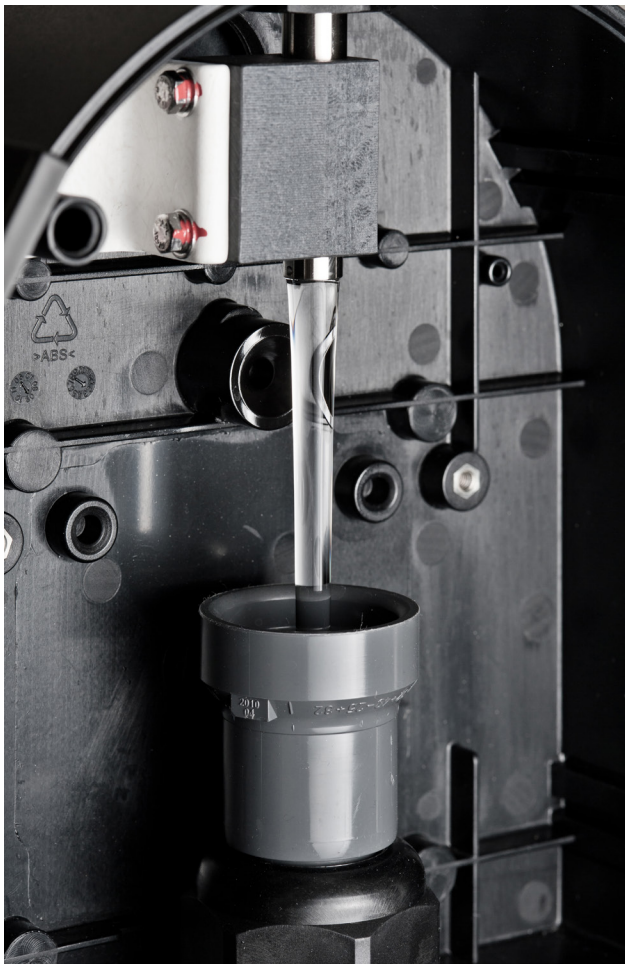
sigrist photometer

APPLICATION NOTE

Measurement of oil traces in water

The drinking water quality is exposed to a wide variety of external influences. Some of today's drinking water supplies are located in densely populated regions next to industrial areas, motorways or bodies of water with shipping traffic. There is a permanent risk of oil contamination due to fuel spills or the loss of heating oil. For this reason, the quality control in drinking water supply has an increasingly important function today. However, not only the water, but also the water treatment plants themselves must be protected from oil contamination.



Contactless measurement of the free-falling water jet – guaranteed pollution-free.

Today, random laboratory tests are carried out on water, but such samples only provide a snapshot of quality parameter and are anything but fast. SIGRIST offers a proven on-line system for continuous monitoring of water for traces of oil and thus gives the water supplier security 365 days a year – around the clock.

The Solution

The Sigrist OilGuard 2 W A is a continuously operating measurement system that reacts reliably and quickly to the smallest traces of oil. The device measures the fluorescence properties of hydrocarbons in fuels and oils. Due to this measuring principle and the fact that the OilGuard 2 W A measures without contact, the measurement is not negatively affected by turbidity or equipment contamination. The integrated automatic calibration function checks the unit fully automatically at adjustable intervals during measurement operation. If the unit detects a measurement error, it automatically issues an error message. This offers the user maximum safety and highest device availability.

Customer Benefit

The device is calibrated at the factory according to the US EPA standard and thus covers a large number of substances classified as water pollutants. Calibration is therefore based on an internationally recognised standard, which in particular increases acceptance by