

Oil trace measurement in-line & mobile

Oil contamination in raw water is a serious risk many water suppliers face today. Sources for the contaminations can be shipping or industrial applications. If contamination reaches the water treatment process the damage can be at least a six-digit figure! This is why an early detection system is pivotal for water suppliers.



The OilGuard PR 30



The OilGuard 2 W A

A continuous surveillance is essential at critical abstraction points such as groundwater catchments close to highways or industrial sites.

The Solution

Sigrist offers two instruments for oil trace measurement with identical performance. The customer can use the product that best suits their needs:

The **OilGuard 2 W A** is made for installation in-line in the water works.

The **OilGuard PR 30** is designed as flexible probe that can be used either in-line, in a by-pass or submersed. In combination with the SICON control unit the operator can set alarm levels according to the water quality level.

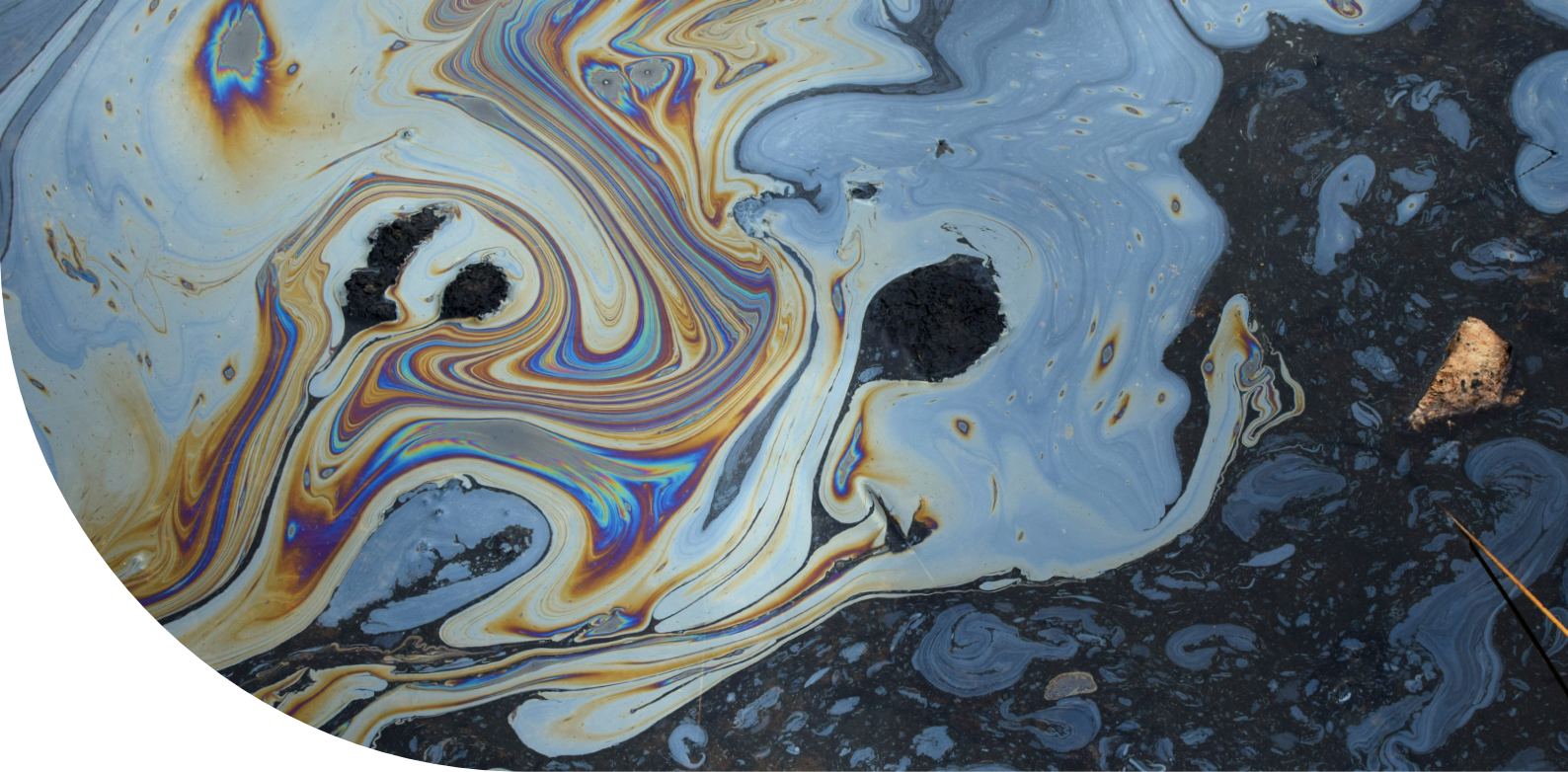
The Customer Benefit

The early detection of oil saves several 100'000 CHF! Why?

- In case of an oil contamination all filters must be replaced and the system must be cleaned.
- The Sigrist product portfolio allows the customer to choose the installation that suits best their needs.

Typical Application

Sigrist has extensively tested the OilGuard PR 30 and the OilGuard 2 W A in two typical applications: measurement of river water and measurement of



lake water. In the first case the river water is used as a source for bank filtration which latter is part of the city's drinking water supply. In the second case the lake water is directly treated to be used as potable water.

Both instruments show the same results for the same water quality! This shows the reliability of Sigrist instruments.

Technical Data

- Measurement of oil traces and temperature with zero water loss → Fast feedback on water quality
- Sophisticated instrument design → Tilted head with self-cleaning effect in pipes

- Easy re-calibration in the field → Use of secondary standard, easy and fast in the field
- Flexible system integration → Many possibilities, easy adaptable to customer needs.

Further Practical Measuring Tasks

In the absence of oil contamination, the signal of our oil monitor is non-zero. Why? The sensitive fluorescence measurement also detects microbial creatures like algae or certain bacteria. This so-called background fluorescence has seasonal variations due to the changing water temperature. Therefore, you could use our oil monitors also as a rough watchdog for microbiological activity in the water.

