



environmental solutions.

EHP-OIL, ONLINE OIL-IN-WATER MONITORING

TECHNOLOGY

EHP-OIL measures oils which leave PAH (polycyclic aromatic hydrocarbons) traces in water. These so called mineral oils include diesel, gasoline, hydraulic oils, gear oils, different greases, crude tall oil and other oil-like substances depending on the application. Site-specific sensitivity of the sensor is analyzed during an initial test period.



The measurement is based on UV fluorescence sensing technology and it detects PAH as low as 1 ppb/l. Pressured air cleaning and nanocoated optical window decrease the need for manual cleaning and increase reliability. EHP-OIL has proven its functionality in steel and pulp industries' discharge and process water monitoring.

WHERE EHP-OIL CAN BE USED?

EHP-OIL monitoring station can be used on lakes, rivers, seas, pipelines, oil separation basins and other places by integrating the solution to any physical EHP station model, for example environmental buoy. A flowcell for the sensor is available as an accessory for by-pass installations. Automatic alarms alert when set limits are passed which enables faster reaction, for example, to avoid oil spill or to optimize processes. EHP-Dataservice is recommended for the data collection and analyzes platform.

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PROCESS OPTIMIZATION

Outokumpu Tornio Neutralization plant 2 uses EHP-OIL to analyze their grease removal process. They have been extremely satisfied with EHP-OIL, as it detects changes in oil concentration reliably online. In past, information of oil was received only twice every week from water samples, so current technology provides a totally different possibility to understand and optimize this process.

OIL LEAKAGE DETECTION

StoraEnso pulp mill in Oulu and SSAB Raabe steel plant are using EHP-OIL to detect oil leaks from discharge streams. With instant alarms, they both are able to minimize environmental risks if possible spills occur. Both customers began oil-in-water monitoring by test periods EHP conducted, to ensure oil monitoring can be done successfully.

ANSWERING ENVIRONMENT AUTHORITIES' STRICTEST DEMANDS

Ekokem Riihimäki uses online oil-in-water monitoring before and after their water purification process. They have made a local calibration for a defined PAH substance for which they need to meet authority's set levels.



SSAB

EKOKEM

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