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3000CS Chloride/Sulfate Analyzer

Automated on-line, ppb-level chloride and sulfate measurement



The METTLER TOLEDO Thornton 3000CS Analyzer is an on-line instrument for direct measurement of chlorides and sulfates in pure water and power cycle chemistry samples. The analyzer continuously monitors these highly corrosive contaminants to assist in corrosion control and minimizing damage to critical power plant equipment. Early, unambiguous detection of trace levels of chloride and sulfate ions is provided with minimal operator supervision.

Applications

Turbine inlet monitoring: Confirm the steam entering the turbine has chloride and sulfate levels within limits.

Boiler feedwater monitoring: Ensure low ppb level contaminants in the water and steam cycle.

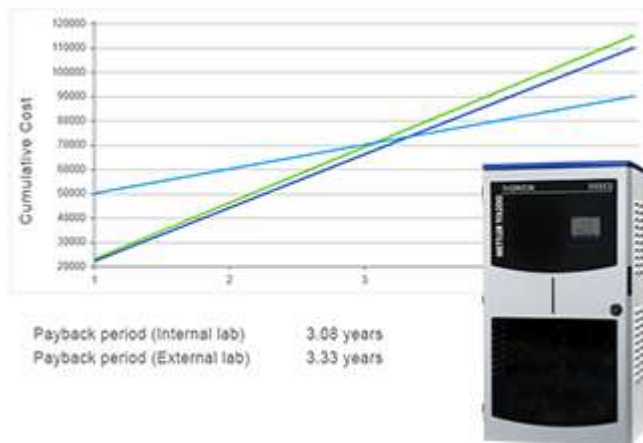
Condensate monitoring: Detect breakthrough at condensate polisher of contaminants and deterioration of sulfonated cation resin.

Makeup water monitoring: Certify that chloride and sulfate levels are within acceptable limits before water is introduced in the water and steam cycle.

On-line, ppb-level chloride and sulfate monitoring

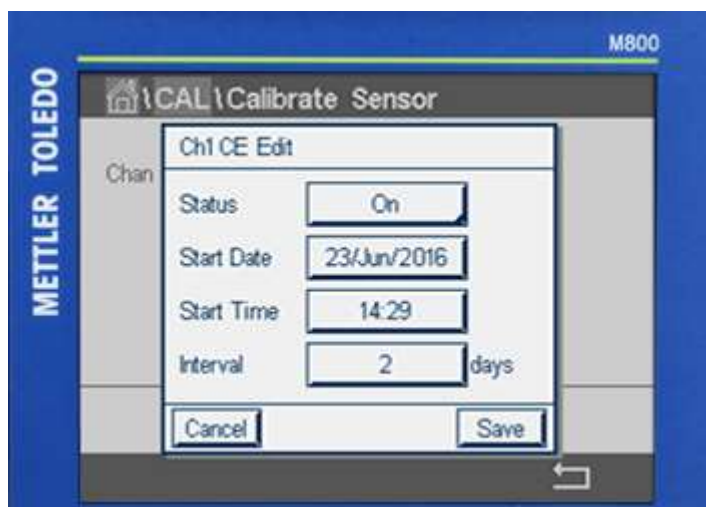
The innovative 3000CS uses microfluidic capillary electrophoresis, an ionic separation technology, to directly measure trace levels of harmful sulfate and chloride ions. With on-line measurements

every 45 minutes, the 3000CS allows you to monitor your water and steam cycle continuously. Catch contamination early so that corrective action can be taken avoiding unplanned shutdowns and costly repairs.



Low total cost of ownership

The 3000CS Analyzer provides affordable, **on-line sulfate and chloride measurement**. This offers an alternative to expensive off-line technologies such as Ion Chromatography and Inductively Coupled Plasma, where the samples risk being contaminated in the lab. With the 3000CS you get continuous monitoring and a faster return on investment by eliminating costly internal or external lab tests.



Easy operation, easy maintenance

The 3000CS features automatic calibration and an intuitive touchscreen interface, allowing you to operate the analyzer without the need for a trained chemist, saving time and costs. Intelligent Sensor Management technology in the analyzer provides diagnostics that predict when maintenance or replacement of consumables will be required.

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