

WATER QUALITY
MONITORING
SOLUTIONS

INDUSTRIAL WASTEWATER

realtechwater.com

REALTECH
INC.

KNOW WHAT'S IN YOUR WATER

Your water changes by the minute;
don't wait to find out.

With continuous 24/7 information from Real Tech's water quality monitoring solutions, there's always an opportunity to do better.





BOD
COD
TSS
SPECTRAL
ABSORBANCE
CONTAMINANT
ALARM
DYES
SURFACTANTS
BLACK LIQUOR

Contaminant/Event Detection Monitoring

Gain peace of mind that an unforeseen event or shock load won't go unnoticed.

With real-time monitoring you can mitigate risk and enable your team to quickly react and boost treatment when the unexpected occurs, avoiding costly operational problems.

BOD
COD
TSS

Chemical Dose Optimization

Optimize your chemical dose while achieving your desired solids and organics removal with real-time monitoring. With pre-treatment and post clarification monitoring, you can track your system's effectiveness and dose in response to raw wastewater conditions.

In turn, excess chemical dose will be minimized, decreasing sludge production and disposal costs, making for smoother operation after primary clarification.

NO₃
NO₂

Biological Nutrient Removal Monitoring

Optimize your carbon addition by monitoring nitrate and nitrite in real-time. A continuous feed of real-time information will enable you to dose supplemental carbon in response to current wastewater conditions, avoiding overfeeding while maintaining nitrogen removal targets.

In turn, costs are minimized through more efficient dosing and water quality is improved.

BOD
COD
TSS
SPECTRAL
ABSORBANCE
CONTAMINANT
ALARM

Advanced Treatment Monitoring

Be assured your pre-treatment operations are running as designed with real-time monitoring. Upstream failures can be quickly detected, and immediate corrective actions taken to boost your chemical dosage and avoid costly damage, such as clogging of your membranes.

In turn, the service life of your advanced treatment technologies will be extended, and costs minimized.

BOD
COD
TOC
UV254

Product Loss Monitoring

Achieve cost savings while reducing organic loading to your wastewater plant with real-time monitoring. A continuous feed of real-time information from the production plant effluent will quickly enable operators to identify inefficient production processes, such as rinsing or CIP.

In addition, you can detect spills quickly and stop them before costly wastewater treatment is required. In turn, you will benefit from more efficient production and reduce the burden on the wastewater plant, saving costs and driving more revenue to production.

BOD
COD
TSS
DO

Aeration Optimization

Improve the efficiency of your aeration system with real-time monitoring of organic loading in addition to TSS and DO.

Energy savings can be achieved by optimizing and controlling the aeration rate in real-time. Monitoring enables you to increase the rate when high organic loads are detected or decrease rate when organics are minimal, all while maintaining adequate treatment.

TSS
BOD

DAF Performance Monitoring

Optimize the performance of your dissolved air flotation system with real-time TSS and BOD monitoring. A continuous feed of real-time information will enable you to monitor for sudden changes in wastewater loading and control your chemical feed in response.

In turn, overfeeding of chemicals will be avoided and costs minimized while maintaining the desired effluent water quality.

BOD
COD
TSS
SPECTRAL
ABSORBANCE
CONTAMINANT
ALARM

Effluent Discharge Monitoring

Gain peace of mind that effluent quality continuously meets expectations and limit surcharge fees or permit violation fines with real-time monitoring.

Quick alerts of concentrations approaching set thresholds can trigger treatment enhancements well before concentrations are exceeded, ensuring compliance with effluent quality standards for environmental discharge or reuse purposes.

BOD
COD
TOC
TSS

Nutrient Dose Optimization

Optimize your nutrient addition by monitoring the incoming organic load in real-time. A controlled dose in response to current water quality conditions will enable you to avoid the potential of overdosing and having unwanted nutrients in the effluent.

In turn, greater efficiency will result in nutrient cost savings and better effluent quality.

UVT

UV Disinfection Performance and Optimization

Achieve effective UV disinfection and gain peace of mind that your system is continuously operating within specification with real-time UVT monitoring.

Cost savings can be gained for dose pacing enabled systems by integrating UVT into the dose calculation. In turn, the system can operate in accordance with the current water quality conditions, improving efficiency and minimizing energy costs.

A COMPREHENSIVE PRODUCT LINE TO MEET YOUR NEEDS

	REAL SPECTRUM PL SENSOR	REAL SPECTRUM GL SENSOR	REAL MULTI-WAVE SL SENSOR	REAL MUTLI-WAVE SA PROBE SENSOR	REAL DUAL-WAVE ML SENSOR	REAL DUAL-WAVE MA PROBE SENSOR	REAL ALGAE SENSOR	REAL AMMONIUM SENSOR	REAL COLOUR SENSOR	REAL CONDUCTIVITY SENSOR	REAL DO SENSOR	REAL FREE CHLORINE SENSOR	REAL NITRATE SENSOR	REAL OIL IN WATER SENSOR	REAL PERMANGANATE SENSOR	REAL pH/ORP SENSOR	REAL TURBIDITY SENSOR	REAL TSS SENSOR	REAL UV254 PROBE SENSOR	REAL UV254 ONLINE ANALYZER	REAL UV254 FIELD METER
UVT	●	●	●	●	●	●													●	●	●
UV254	●	●	●	●	●	●													●	●	●
DOC	●	●	●	●	●	●														●	●
TOC	●	●	●	●	●	●														●	●
COD	●	●	●	●																	
BOD	●	●	●	●																	
NO ₃	●	●											●								
NO ₂	●	●																			
NO ₃ & NO ₂	●																				
TSS	●	●	●	●	●	●											●	●			
TURBIDITY																	●				
CONDUCTIVITY										●											
pH/ORP																●					
DO											●										
AMMONIUM								●													
FREE CHLORINE												●									
MONOCHLORAMINE	●																				
TEMPERATURE											●					●					
ALGAE	●		●				●														
CHROMIUM VI	●		●																		
PERMANGANATE	●	●	●												●						
COLOUR	●	●	●	●	●	●			●											●	
DYES	●																				
PESTICIDES	●																				
POLYMERS	●																				
OIL IN WATER	●													●							
DIESEL FUEL	●																				
BTEX	●																				
SURFACTANTS	●																				
SOAPS	●																				
BLACK LIQUOR	●																				
H ₂ S	●																				
O ₃	●		●	●																	
THM	●		●																		
HAA	●		●																		
CONTAMINANT ALARMS	●	●																			
SPECTRAL FINGERPRINT	●	●																			





EVERY MINUTE OF
EVERY DAY

WHERE THERE IS WATER
WE ARE THERE

1000's of clients in over 50 countries
trust and rely on Real Tech solutions to
meet their water quality monitoring needs.

Discover more about our industrial applications today:
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