

WATER QUALITY  
MONITORING  
SOLUTIONS

# INDUSTRIAL WASTEWATER

**REALTECH**  
INC.

[realtechwater.com](http://realtechwater.com)

# KNOW WHAT'S IN YOUR WATER

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

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

Our focus is on advancing the management of water by providing monitoring solutions that meet your unique detection needs of today and evolving detection needs of tomorrow.

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

**Practical. Accurate. Affordable.**





BOD  
COD  
TSS  
SPECTRAL  
ABSORBANCE  
CONTAMINANT  
ALARM  
DYES  
SURFACTANTS  
CHROMIUM VI  
HYDROCARBONS  
BENZENE

### 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.

### 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

### 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.

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.

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.

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.

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.

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  
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.

# A COMPREHENSIVE PRODUCT LINE TO MEET YOUR NEEDS

Real-time up to the minute insights can bring significant value to many water and wastewater applications. The right monitoring solution can help you improve water quality, optimize your treatment processes, save costs and gain greater control.

UVT  
UV254  
DOC  
TOC  
COD  
BOD  
Nitrate  
Nitrite  
TSS  
Turbidity  
Conductivity  
pH/ORP  
DO  
Ammonium  
Free Chlorine  
Monochloramine  
Temperature  
THM  
HAA  
Algae  
Chromium VI  
Permanganate  
Colour  
Dyes  
Pesticides  
Polymers  
Hydrocarbons/Oil in Water  
Diesel Fuel  
BTEX  
Surfactants  
Soaps  
Black Liquor  
Hydrogen Sulfide  
Benzene  
Ozone  
Contaminant Alarms  
Spectral Fingerprint

Our innovative product platform enables us to package a solution that meets your detection needs, environment and budget. Our comprehensive modular solutions enable the configuration that's right for you.

We know. One size doesn't fit all.



## METERS

On-the-go portable water quality testing couldn't be easier with Real Tech's patented technology field meters that allow for simple and affordable measurements - anywhere, anytime. Operation is straight forward with accurate and repeatable results obtained in seconds.



## ANALYZERS

Up-to-the-minute insights from our continuous analyzers can bring significant benefits to many applications. With onboard LCD display, Real Tech's analyzers provide practical and affordable solutions for real-time monitoring.



## SENSORS

Real Tech offers a variety of real-time sensors for many important water quality parameters and compounds.

Patent-pending multiple parameter sensors include BOD, COD, TOC and much more.

Single parameter sensors include pH, conductivity, ammonium, DO, TSS and more.



## CONTROLLERS

Easy access to your water quality data from your sensors using one of our plug-and-play controllers.

Choose from two controller options offering different operator interfaces and budgets with a variety of I/O options.



## ACCESSORIES

Select from several different sample conditioning and cleaning options to improve performance and lower maintenance.

Liquid Ai™

## DATA SERVICES

Add on our Liquid Ai data services allowing for unmatched accuracy, detection capabilities and reliability.



**EVERY MINUTE OF  
EVERY DAY**

**WHERE THERE IS WATER  
WE ARE THERE**

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Discover more about our municipal applications today:  
[realtechwater.com/industrial-wastewater](https://realtechwater.com/industrial-wastewater)

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