

WATER QUALITY
MONITORING
SOLUTIONS

MUNICIPAL DRINKING WATER

REALTECH
INC.

realtechwater.com

KNOW WHAT'S IN YOUR WATER

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

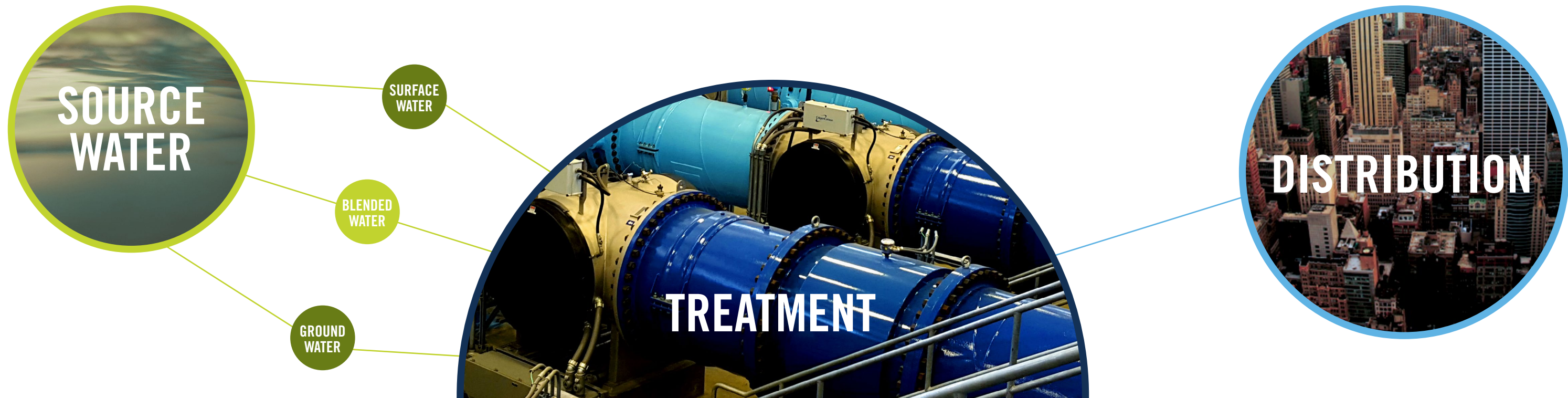
1000's of clients in over 50 countries
trust and rely on Real Tech solutions to
meet their water quality monitoring needs.

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.





UV254
SPECTRAL
ABSORBANCE
ALGAE
NO₃
NO₂
COLOUR
TOC/DOC
CONDUCTIVITY
DO
pH/ORP
TURBIDITY

Source Water Monitoring

Gain peace of mind that an unforeseen event or change in your water quality 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.

NO₃
CHROMIUM VI

Blending Optimization

Optimizing mixing ratios and evaluating process efficiency is simple with real-time monitoring.

You can maximize your efficiency of the blending process while also gaining assurance that effluent concentration continuously meets drinking water standards.

UV254
TOC/DOC
SPECTRAL
ABSORBANCE
TURBIDITY
pH
PERMANGANATE

Chemical Optimization

Optimize your chemical dosing for coagulation or permanganate with real-time monitoring.

Coagulation optimization can be achieved by monitoring at the plant inlet and post filtration, tracking your system's effectiveness in response to changing water conditions to achieve your desired turbidity and organics removal goals, extending filter run times, increasing disinfection efficiency and minimizing DBP precursors.

Monitoring residual permanganate provides early warning of overdosing well before pink colour is visible, while ensuring effective removal for iron, manganese and colour.

UV254
TOC/DOC
SPECTRAL
ABSORBANCE
TURBIDITY
pH

Contaminant Removal Efficiency

Improve your activated carbon or ion exchange resin lifetime while maximizing efficiency with real-time monitoring. Pre and post treatment monitoring will enable you to foresee contaminant loading to the system, track the contaminant removal efficiency, and provide a clear indication for determining regeneration requirements.

Powdered activated carbon (PAC) addition can also be optimized with real-time organics monitoring. You can minimize excess PAC feed to reduce sludge and save on costs while maintaining your desired organics removal.

UVT
UV254
TOC/DOC
SPECTRAL
ABSORBANCE
THM
HAA

UV Disinfection Performance and Optimization

Achieve effective UV disinfection and gain peace of mind 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.

DBP and Formation Potential Monitoring

Be assured trihalomethanes (THMs) and haloacetic acids (HAAs) are limited by continuously monitoring the removal of precursors throughout your treatment process and monitoring THMs and HAAs before and after disinfection.

Enhancements to treatment can be triggered or source water blending ratio adjusted when effluent organics concentrations exceed your plant thresholds, ensuring drinking water standards are met in the distribution system.

UV254
TOC/DOC
SPECTRAL
ABSORBANCE
pH/ORP
NO₃
NO₂
COLOUR
TURBIDITY
DO

Smart Water Networks

Gain a sense of security that unforeseen or uncharacteristic events will be rapidly detected with continuous monitoring of key water quality parameters and contaminants in your distribution system.

Timely detection and alert will enable your team to take corrective and preventative steps to minimize the impact on water quality and public health and safety.

NO₃
NO₂
TOTAL
CHLORINE
MONOCHLORAMINE
FREE CHLORINE
pH
CONDUCTIVITY
AMMONIUM
TOC
TEMPERATURE

Nitrification Monitoring

Rest assured that a nitrification event will be rapidly detected with real-time monitoring in the distribution system. Strategically placed monitoring systems provide an early warning that nitrification is occurring, enabling you to boost disinfection in pumping stations and flush pipes in problem areas as necessary.

Real-time insights can also support improvements and optimization of your chloramination process at the plant to minimize the potential for future nitrification events.

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.



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

Discover more about our municipal applications today:
realtechwater.com/drinking-water

Real Tech Inc.

1150 Champlain Court,
Whitby, Ontario L1N 6K9 Canada
TF: 1.877.779.2888 T: 1.905.665.6888
info@realtechwater.com

REALTECH
INC.