

PRODUCT SOLUTIONS



realtechwater.com

KNOW WHAT'S IN YOUR WATER

Real Tech has been a trusted water quality monitoring solutions provider for the municipal and industrial sectors for well over a decade.

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.



Practical

Solutions that are simple to operate and maintain, allowing for long-term operation in your plant.



Accurate

Superior technology and custom software services enable our solutions to output highly accurate data you can trust and rely on.



Affordable

We offer a comprehensive product line that enables us to provide a solution that meets your budget so you can gain the benefits of real-time monitoring.

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	●	●																			



UV254/UVT INSTRUMENTATION

UV254 is a simple and effective measurement for determining organic matter concentration in water or wastewater.

UV transmittance (UVT) at 254 nm is particularly important for a UV disinfection systems operation and performance. We provide a complete line of UV254/UVT instrumentation for any application need, including portable field meters, online bypass analyzers and online submersible probes.



UV254 FIELD METERS

UV254 FIELD METER

SERIES	P
PARAMETERS	UVT or UV254
DESCRIPTION	Easy to use portable UV254 field meter provides accurate and repeatable results in seconds



UV254 ANALYZERS / SENSORS

UV254 ONLINE ANALYZER

SERIES	M
PARAMETERS	UVT, UV254, TOC, DOC or colour
DESCRIPTION	Practical UV254 bypass analyzer with built in controller, provides accurate and reliable continuous organics measurement



UV254 PROBE SENSOR

SERIES	S
PARAMETERS	UVT or UV254
DESCRIPTION	Robust UV254 submersible probe provides reliable, low maintenance continuous UVT measurement in wastewater or non-pressurized location

MONITORING SYSTEMS

Real-time up to the minute insights can bring significant value to many of your plant's applications. The right monitoring solution can help you improve water quality, optimize your treatment processes, save costs and gain greater control. Our product platform enables us to package a solution that meets your detection needs, environment and budget.

Innovative modular product platform enables the configuration that's right for you. We know. One size doesn't fit all.

Build Your Total Solution

- A black rectangular control unit with a color touchscreen displaying various water quality parameters like BOD, COD, pH, and temperature.

1 FLEXIBLE CONTROLLERS
Choose from two controller options offering different operator interfaces and budgets with a variety of I/O options
- A black rectangular unit with a coiled black cable and a long, thin optical sensor probe.

2 MULTIPLE PARAMETER SENSORS
Select from several multiple parameter optical sensors to measure parameters such as BOD, COD, TOC and much more

SINGLE PARAMETER SENSORS
Choose from a selection of single parameter sensors to measure parameters such as pH, conductivity, algae, ammonium, DO, TSS and more
- A grey rectangular unit with a white sample bottle and a pump mechanism attached to the side.

3 ROBUST ACCESSORIES
Select from several different sample conditioning and cleaning options to improve performance and lower maintenance
- The logo for Liquid Ai, featuring the word "Liquid" in a light blue script font and "Ai" in a white bold sans-serif font.

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

REAL-TIME SENSORS

Multiple Parameter Sensors

Real Tech offers a comprehensive line of best-in-class sensors to detect many critical water quality parameters and compounds in real time.



SPECTRUM SENSOR		SPECTRUM SENSOR
SERIES	PL	GL
PARAMETERS	BOD, COD, TOC, DOC, UV254, UVT, TSS, nitrate, nitrite, nitrite & nitrate, algae, permanganate, monochloramine, chromium VI, 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, custom alarm	BOD, COD, TOC, DOC, UV254, UVT, TSS, nitrate, nitrite, permanganate, colour, contaminant alarms, spectral fingerprint, custom alarm
DESCRIPTION	Full wavelength scanning, data-rich UV-VIS bypass sensor designed for high precision and accuracy in measurement	Multiple wavelength UV-VIS bypass sensor enables accurate and reliable continuous monitoring



MULTI-WAVE SENSOR		MULTI-WAVE PROBE
SERIES	SL	SA
PARAMETERS	BOD, COD, TOC, DOC, UV254, UVT, TSS, colour, algae, permanganate, chromium VI, O ₃	BOD, COD, TOC, DOC, UV254, UVT, TSS, colour, O ₃
DESCRIPTION	Four wavelength UV-VIS bypass sensor with LED technology enables affordable, low maintenance monitoring	UV-VIS submersible probe with LED technology enables affordable, low maintenance monitoring



DUAL-WAVE SENSOR		DUAL-WAVE PROBE
SERIES	ML	MA
PARAMETERS	TOC, DOC, UV254, UVT, TSS, colour	TOC, DOC, UV254, UVT, TSS, colour
DESCRIPTION	Dual wavelength SAC 254 and 550 nm bypass sensor provides practical, low cost organics monitoring	Submersible probe with dual wavelengths SAC 254 and 550 nm provides practical, low cost organics monitoring

REAL-TIME SENSORS

Single Parameter Sensors

				
	ALGAE SENSOR	AMMONIUM SENSOR	COLOUR SENSOR	CONDUCTIVITY SENSOR
PARAMETERS	Algae	Ammonium	Colour	Conductivity, Salinity
DESCRIPTION	Algae screening bypass sensor uses simple and affordable UV LED technology to measure algae (cells per mL) or chlorophyll-a (µg per L) in source water	Ammonium probe uses ISE technology for practical and affordable continuous monitoring	Submersible colour probe uses UV LED technology for simple and reliable monitoring of colour changes in water	Conductivity probe uses 4 electrodes technology for ultra-low power and low maintenance monitoring
				
	DO SENSOR	FREE CHLORINE SENSOR	NITRATE SENSOR	OIL IN WATER SENSOR
PARAMETERS	Dissolved Oxygen (DO)	Free Chlorine	Nitrate	Oil in Water (OIW)
DESCRIPTION	Optical DO probe with ASTM International Method D888-05 approved technology offers operator friendly, low maintenance design	Amperometric technology free chlorine sensor provides simple and reliable reagent free continuous measurement	Bypass UV nitrate optical sensor designed for accurate and reliable real-time monitoring of nitrate in water	Bypass oil in water optical sensor provides a simple and affordable solution for real-time OIW measurement
				
	PERMANGANATE SENSOR	pH/ORP SENSOR	TURBIDITY SENSOR	TSS SENSOR
PARAMETERS	Permanganate	pH, ORP, Temperature	Turbidity or TSS	TSS
DESCRIPTION	Bypass permanganate sensor uses LED technology for simple and reliable low concentration monitoring of residual permanganate in drinking water	pH probe uses combined electrode technology for simple and low maintenance monitoring in water	Turbidity probe uses IR nephelometry optical measurement technology, ISO 7027 compliant, for reliable, low maintenance monitoring	Submersible TSS probes use LED technology for affordable, low maintenance monitoring of TSS

FLEXIBLE CONTROLLERS

Real Tech’s plug-and-play controllers provide you easy access to your water quality data. Various communication outputs are available to make integration with your system simple and straightforward.



REAL CONTROLLER PRO

DESCRIPTION	Advanced controller with 10" colour LCD, touch screen graphic interface with easy to navigate software Multiple sensor and peripheral accessory integration
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REAL CONTROLLER

DESCRIPTION	Controller with five push button control and simple to operate, 4-line x 20-character backlit LCD with comprehensive hierarchical menu system Multiple sensor and peripheral accessory integration
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ACCESSORIES

From high purity waters to the harshest wastewaters, we have you covered with a variety of accessory options. With the right configuration, you enjoy fewer maintenance requirements and improved performance over a one-size-fits-all solution.



REAL CLEAN SYSTEMS

Automatic chemical cleaning system designed for bypass sensors to limit flow cell fouling, enhance performance and reduce maintenance



PUMP CLEAN SYSTEMS

Pumping system and automatic chemical cleaning in one, designed for bypass sensors in non-pressurized water for enhanced performance



AIR PURGE CLEAN SYSTEMS

Patent pending pump, air purging and automatic chemical cleaning system in one designed for bypass sensors to enhance performance



DILUTION SYSTEMS

Automatic dilution system designed for bypass sensors to extend range up to 10x dilution factor, includes automatic cleaning and pumping system to minimize maintenance



AIR CLEAN SYSTEMS

Automatic compressed air cleaning system designed for submersible probes to minimize maintenance and enhance performance



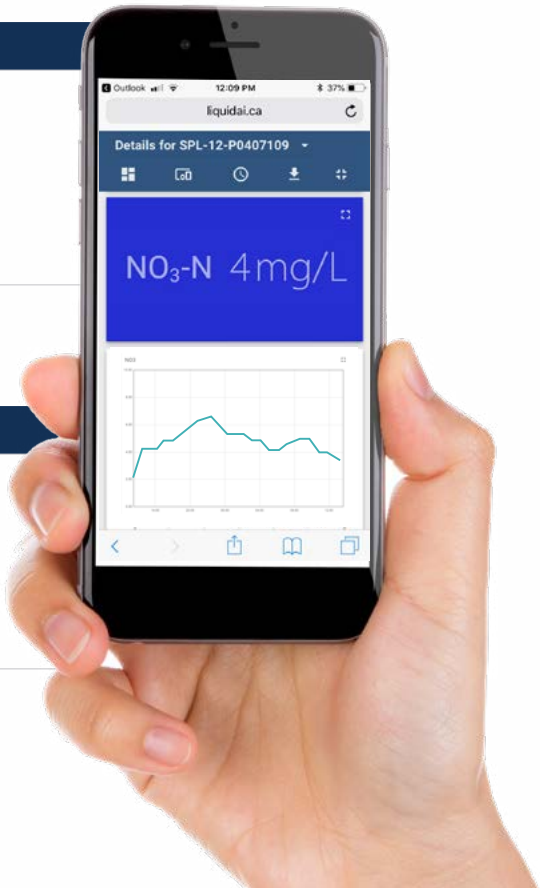
DUAL FEED SYSTEMS

Designed for bypass sensors to monitor two separate sample streams, ideal for pre and post treatment to track system performance and efficiency

DATA SERVICES

Our suite of Liquid Ai data services enables actionable insights. Real Tech has a deep understanding on how to bring intelligence to water. The longer our system is installed the smarter it becomes, giving you the assurance you need to take control and know what's in your water.

LIQUID Ai CALIBRATION MONITORING SERVICE	
DESCRIPTION	<p>Ongoing calibration monitoring service designed to complement Real Tech's data rich sensors</p> <p>Enables practical and highly accurate real-time monitoring of water quality parameters and difficult to detect compounds traditionally left for the lab</p>
LIQUID Ai REMOTE MONITORING SERVICE	
DESCRIPTION	<p>Provides users the ability to access sensor information from any location, at any time</p> <p>Web-based platform provides secure access to information including water quality data, current system status, upcoming maintenance requirements and more</p>



LiquidAi



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 products today:
realtechwater.com/products

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