

TECHNICAL SPECIFICATIONS FOR REAL TECH'S UV254 PRODUCT LINE

Our continuous real time monitors and portable field meters all benefit from our innovative technologies to provide superior performance while maintaining affordability.

	CONTINUOUS ONLINE MONITORS			PORTABLE FIELD METERS	
	M4000 SERIES*	M3000	M2000 SERIES	P200	P100 SERIES
RANGE	0 - 0.06 UVA 86 - 100 %UVT	0 - 1 UVA 10 - 100 %UVT	0 - 8 UVA	0 - 1.3 UVA 5 - 100 %UVT	0 - 8 UVA
ACCURACY	± 0.5 % FS				
RESOLUTION	0.00001 UVA 0.001% UVT	0.001 UVA 0.1 %UVT	0.001 UVA	0.001 UVA 0.1 %UVT	0.001 UVA
UNITS	cm ⁻¹				
PATH LENGTH	250mm	10mm	10mm, 4mm, 2mm	10mm	10mm, 2mm
SAMPLING TIME	10 seconds			n/a	
CALIBRATION	In-situ zeroing to any sample with known UVT. No further calibration required			Calibration memory prevents the need to re-zero to DI water.	
CLEANING	In-situ cleaning makes cleaning quick and easy. Automatic chemical cleaning is optional.			n/a	
SELF DIAGNOSTICS	Detection and diagnosis of internal system fault			Notification of system failure	
OPERATOR INTERFACE	Five push buttons to control a comprehensive hierarchical menu system			Easy to use. No complex configuration required	
DISPLAY	4 line x 20 character backlit LCD with LED alarm indicator			32 character backlit LCD	
ALARMS	Dry contact terminals allow operator configurable alarms for: high and low UVT/UVA setpoints, low lamp output, leak detected, system fault, etc.			n/a	
HUMIDITY CONTROL	Humidity sensor with large regeneratable desiccant system				
OUTPUTS	Self-powered 4-20mA, RS232 serial for PC				
WAVELENGTH	253.7nm				
LIGHT SOURCE	Low-pressure mercury UV lamp				
LAMP LIFE	2 years				
DIMENSIONS	17"H x 15"W x 7"D	16"H x 14"W x 8"D		8.7"L x 7.5"W x 3.9"H (254 cu in)	
ENCLOSURE	NEMA 4X, wall mountable			Rugged, compact, watertight and dustproof	
FLOW RATE	300 - 1000 mL/min			n/a	
PRESSURE RATING	100 PSI	20 PSI	20 PSI		
FLUID CONNECTIONS	1/4" tube push-in fittings				
ELECTRICAL	24VDC 40W power adapter (accepts 90-250VAC 50/60Hz)			12VDC 1A wall adapter (accepts 90-250VAC 50/60Hz), 12VDC car adapter	
STORAGE TEMP	-20 to 60°C (-4 to 140°F)				
OPERATING TEMP	0 to 45°C (32 to 113°F)				
WEIGHT	24 lbs	22 lbs		4 lbs	
WARRANTY	2 years limited warranty				
TECHNOLOGY	Split-Sense Pro	Ortho-Beam	Split-Sense Pro	Split-Sense	
OPTIONS	• Dual Feed • Real Clean Automatic Chemical Cleaning System • Pump System with Real Clean			Battery power-pack	

* Includes Real UV254 Security monitor



Better, faster & affordable.

MOST COMPREHENSIVE UV254 SOLUTIONS.

INTRODUCING REAL TECH'S UV254 PRODUCT SERIES

All of Real Tech's UV254 testing products benefit from innovative patented or patent pending core technologies that solve the many challenges faced by other similar instrumentation, providing our valued customers with many advantages such as superior accuracy, performance, ease of use and low maintenance at a fraction of the cost.

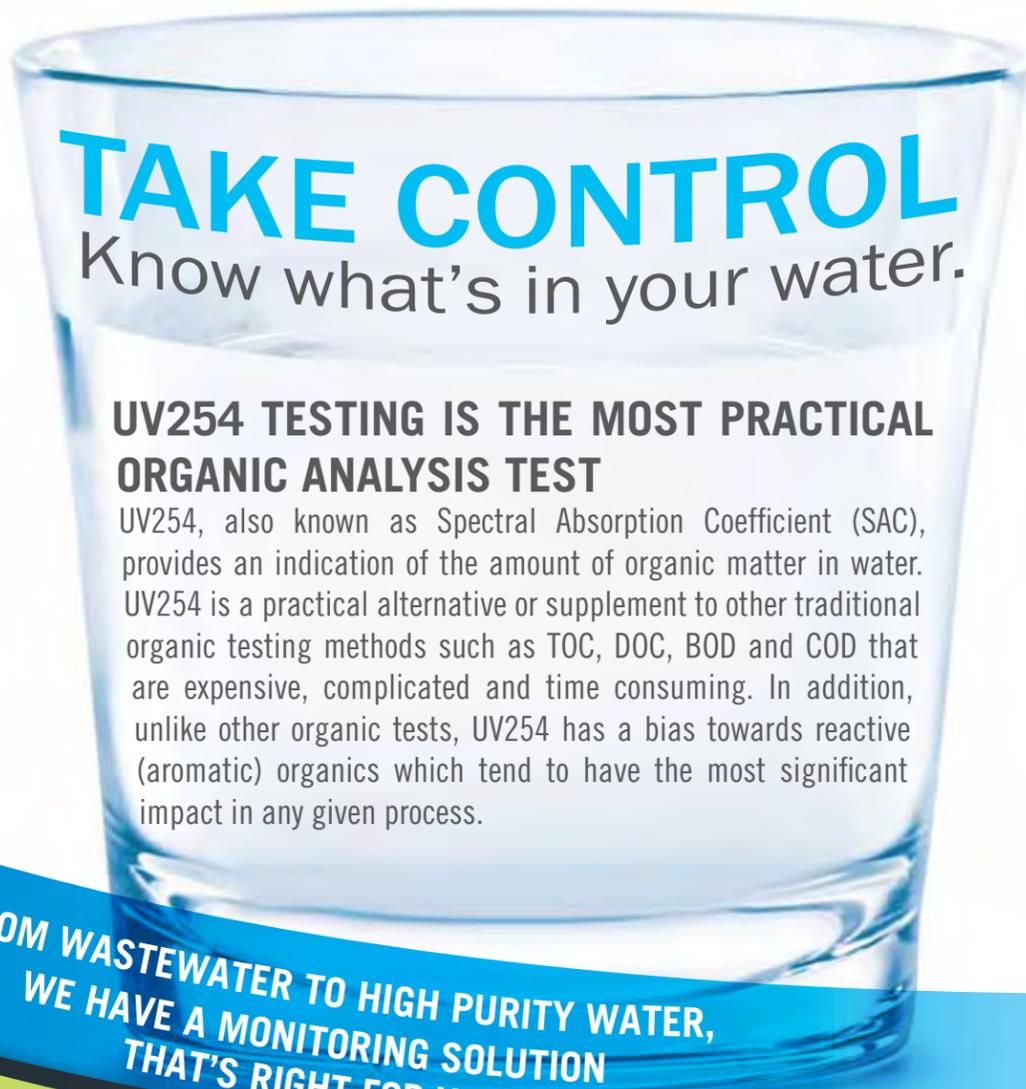
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REALTECH
INC.

SHINING LIGHT ON WATER QUALITY



TAKE CONTROL

Know what's in your water.

UV254 TESTING IS THE MOST PRACTICAL ORGANIC ANALYSIS TEST

UV254, also known as Spectral Absorption Coefficient (SAC), provides an indication of the amount of organic matter in water. UV254 is a practical alternative or supplement to other traditional organic testing methods such as TOC, DOC, BOD and COD that are expensive, complicated and time consuming. In addition, unlike other organic tests, UV254 has a bias towards reactive (aromatic) organics which tend to have the most significant impact in any given process.

PORTABLE FIELD METERS:

Real Tech offers various portable field meters that can suit most general water quality ranges from highly organic laden wastewaters (P100 series) to high purity waters (models P200 and P300). Real Tech's portable meters utilize patented Split-Sense technology which allows for a fast warm-up time of only 1 minute and the unique advantage to remember the meter's calibration, so calibrating or zeroing the meter before

each use is not required (eliminating the need for carrying pure water in the field for zeroing). Furthering the meters ease of use is an optional battery pack feature which truly allows the meter to perform testing anywhere, anytime. Real Tech's portable meters have been designed to cope with the harsh conditions encountered in the field, yet have extreme accuracy and repeatability to make them a valuable addition to any water analysis laboratory.

CONTINUOUS REAL TIME MONITORS:

Real Tech's selection of continuous online monitors provide real time organic analysis 24/7 for any water or wastewater application. Model M3000 suits most general water quality ranges and utilizes exclusive Ortho-Beam technology which not only provides the ability to automatically detect and compensate for UV lamp fluctuations and drift but also for quartz fouling, preventing a loss in accuracy over time and significantly

reducing maintenance. Real Tech's other UV254 monitors utilize exclusive Split-Sense Pro technology and meet the monitoring needs of highly organic laden wastewaters (M2000 series) and ultrapure waters (M4000 series). These online analyzers provide highly sensitive measurement capabilities within their respective water quality range.

ONLINE MONITOR OPTIONS:

There are several optional features available for Real Tech's online monitors which include: Real Clean Automatic Chemical Cleaning System (for improved performance in hard water or wastewater applications), Pump System with Real Clean

(for use with monitors in open channel/non-pressurized applications), and Dual Feed (which allows for two sample water lines to be connected to one UV254 monitor, providing percent removal of organics across a particular treatment method).



FROM WASTEWATER TO HIGH PURITY WATER,
WE HAVE A MONITORING SOLUTION
THAT'S RIGHT FOR YOU

P100 SERIES / M2000 SERIES

P200 / M3000

P300 SERIES / M4000 SERIES

ULTRAPURE (HIGH PURITY WATERS)

WASTEWATERS (HIGH ORGANIC LADEN WATERS)

WASTEWATER EFFLUENT

Ensures regulatory goals are met avoiding hefty penalties for non-compliance

WATER TREATMENT PLANT INFLUENT

Determines organic load of influent allowing plant to take action to ensure appropriate treatment

GRANULAR ACTIVATED CARBON (GAC) FILTRATION

Provides indication of filter performance and condition

DISTRIBUTION SYSTEM SECURITY

Provides real time security and safety of drinking water from accidental or intentional contamination

UV DISINFECTION PERFORMANCE

Vital for determining UV dose to ensure proper treatment

MEMBRANE INTEGRITY

Ensures proper performance and provides instant indication of a rupture event

CHLORINE DOSING

Indicates the potential formation of disinfection by-products (DBPs) and ensures appropriate chlorine dosing

INDUSTRIAL PROCESS CONTROL

Essential for quality control and process optimization

COAGULATION OPTIMIZATION

Invaluable for controlling coagulation dose resulting in cost savings and improved water quality

PRODUCTS

APPLICATIONS

