



# REAL UV254 ONLINE

M series



Specification Sheet

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# REAL UV254 ONLINE ANALYZERS

Real Tech's UV254 Online analyzers offer an affordable and accurate solution for real-time UV254 or UVT monitoring. Benefiting from Split-Sense Pro and patented Ortho-Beam technology, the need for calibration is limited lowering maintenance requirements. Several path length options provide solutions for wastewater to high purity applications.



## APPLICATIONS

- Source water monitoring/protection
- Coagulation optimization
- TOC removal efficiency (Activated carbon)
- Reverse osmosis (RO) removal efficiency
- UV Disinfection performance
- DBP formation potential
- Distribution system contamination event detection
- Smart Water Networks

**“ WE INSTALLED A REAL TECH M3000 DUAL-STREAM UNIT FOR OUR CUSTOMER TWO YEARS AGO. TO DATE IT HAS SAVED THEM THOUSANDS OF DOLLARS AND THE SERVICE REQUIREMENTS HAVE BEEN MINIMAL. CHANGED THE LAMP OUT AND PERFORMED A ONETIME CLEANING OF THE SAMPLE CHAMBER. LESS THAN 30 MINUTES TOTAL TIME. GREAT CUSTOMER SUPPORT AND CONTINUED FOLLOW-UP INTEREST ON REAL TECH'S PART TO MAKE SURE ALL OUR NEEDS ARE BEING MET”**

Daniel Smith, Manage I Montanas Electric

# Features and Benefits

- Real-time UV254 and UVT organics analysis
- Accurate and reliable data
- Simple to install and easy to operate
- Innovative *Custom Calibration* feature
- Low maintenance, bypass style design
- 4 line x 20 character backlit LCD display
- Optional automatic chemical cleaning

## Custom Calibration

Real Tech's innovative custom calibration feature allows the online analyzers to be calibrated without DI water or taking the unit offline. A sample is taken from the drain line of the analyzer and tested with a P200 meter or equivalent for UVT. The UVT value is then entered under the *Custom Calibration* tab in the menu system and the calibration is automatically updated. No further calibration is required.

Table 1: Models and Measurement Range

Model	Path Length	UVA (abs/cm)	UVT (%)
M2010	1 mm	0-13	0-10
M2020	2 mm	0-6.5	0-15
M2040	4 mm	0-3.25	0-45
M2100	10 mm	0-1.3	5-100
M3000	10 mm x 20 mm	0-1	15-100
M3500	50 mm	0-0.26	55-100
M4000	250 mm	0-0.05	89-100

## Dual Feed System

Monitoring two streams is simple and affordable with the dual feed system. The wall mounted cabinet is easy to install with any analyzer, alternating between two streams on timed intervals. The system is invaluable for monitoring organics removal pre and post coagulation as well as pre and post granular activated carbon (GAC) for efficiency measures and optimization.

## Real Clean System

The optional Real Clean systems are the ideal choice to keep maintenance to a minimum and performance at its best. The systems can be programmed to meet the cleaning demands of each site, with the option to recycle 90% of the chemical cleaning fluid - further reducing maintenance. Systems can also be equipped with a pumping component for non-pressurized installations.



TAKE CONTROL, KNOW WHAT'S IN YOUR WATER

Table 2: Technical Specifications

Characteristic	Technical Data
Units	Abs or %
Accuracy	+/- 0.5 % FS
Resolution	0.001 UVA or 0.1% UVT*
Sampling Time	10 seconds
Calibration	In-situ zeroing to DI water or custom calibration to known UVT sample
Cleaning	In-situ chemical cleaning or optional automatic chemical cleaning
Self-Diagnostics	Detection and diagnosis of internal system fault
Operator Interface	Five push buttons to control a comprehensive hierarchical menu system
Display	4 line x 20 character backlit LCD with LED alarm indicator
Alarms	Dry contact terminals allow for operator configurable alarms for: high and low UVT/UVA set points, low lamp output, leak detected, system fault, etc.
Humidity Control	Humidity sensor with large plug-in regenerating desiccant system
Outputs	Self-powered 4-20 mA, RS232 serial for PC
Wavelength	253.7 nm
Light Source	Low-pressure mercury UV lamp / UV LED
Lamp Life	2 years
Dimensions	17"H x 14"W x 8"D*
Enclosure	1P66, NEMA 4, wall mountable
Flow Rate	300-1000 mL/min
Pressure Rating	20 PSI*
Fluid Connections	1/4" OD tube push-in fittings
Electrical	24VDC 40W power adapter (accepts 90-250VAC 50/60Hz)
Storage Temp.	-20 to 60°C (-4 to 140°F)
Operating Temp.	0 to 45°C (32 to 113°F)
Weight	22 lbs*
Warranty	2-year limited warranty (Extended care packages available)
Technology	Ortho-Beam and Split-Sense Pro
Options	Dual Feed, Real Clean, Pump Clean, Seawater Upgrade, High Temperature Upgrade, etc.

\* Difference in specifications for M4000 model

\*\* Technical Specifications are subject to change without notice.