

UV254 SENSOR

ML SERIES



FEATURES & BENEFITS

- Affordable real-time UV254 organics monitoring
- Dual wavelength sensor (254 nm and 550 nm)
- Wastewater to high purity measurement ranges
- Operator friendly, low maintenance design
- Reagent free optical measurements
- Simple to install and operate

MUNICIPAL DRINKING WATER
MUNICIPAL WASTEWATER
INDUSTRIAL PROCESS WATER
INDUSTRIAL WASTEWATER

WATER QUALITY
MONITORING
SOLUTIONS

REAL-TIME MONITORING SOLUTION

UV254 Sensor

Real Tech's bypass UV254 sensor provides affordable real-time measurement of organic matter in water or wastewater. Designed to meet the needs of many monitoring applications, the ML series offers multiple sensor path length selections for the desired measurement range.

Controllers and Accessories

Our innovative modular product platform ensures our clients gain the real-time water quality monitoring system that meets their specific demands and budget. With multiple controller and accessory options available such as automatic chemical cleaning systems that lower maintenance while improving system performance, Real Tech provides a total solution for all of your unique water quality needs.

Liquid Ai Compatible

Our Liquid Ai data services complement our real-time water quality monitoring systems. Our Remote Monitoring platform is a powerful data management and visualization tool that enables access to data anywhere, anytime.

MEASUREMENT PRINCIPLE

Real Tech's UV254 sensor utilizes light at the 254 nm and 550 nm wavelengths. Many organic compounds, specifically aromatic organics, absorb light at 254 nm while interfering compounds are compensated for at 550 nm. Benefiting from Real Tech's patented Ortho-Beam and innovative Split-Sense Pro technologies, lamp drift and fluctuations are compensated for, providing an accurate and stable output overtime, and superior measurement performance.

REALTECH
INC.



UV254 SENSOR SPECIFICATIONS

CHARACTERISTIC

TECHNICAL DATA

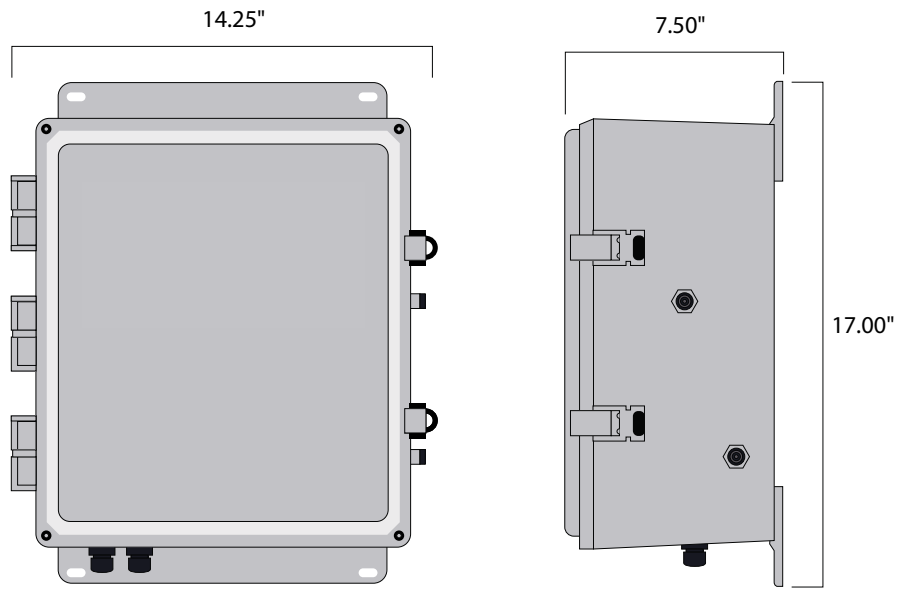
MODEL	ML2010	ML2020	ML2040	ML2080	ML3000	ML4050	ML4100	ML4150	ML4250
Path Length	1 mm	2 mm	4 mm	8 mm	10 mm x 20 mm	50 mm	100 mm	150 mm	250 mm
Technology	Split-Sense Pro			Ortho -Beam			Split-Sense Pro		
Parameters	UV254								
Range	Depends on model selected. Refer to range chart on page 4.								
Units	cm ⁻¹								
Sampling Time	10 seconds								
Calibration	Zero to DI water. Factory calibrated. Field adjustment of calibration is possible.								
Cleaning	In-situ chemical cleaning makes cleaning quick and easy. Automatic chemical cleaning is optional.								
Self-Diagnostics	Detection and diagnosis of internal system fault								
Alarms	Dry contact terminals allow for operator configurable alarms for: high and low set points, low lamp output, leak detected, system fault, etc.								
Humidity Control	Humidity sensor with large plug-in regenerating desiccant system								
Wavelength	253.7 nm and 550 nm								
Light Source	Low-pressure mercury UV lamp and LED								
Lamp Life	2 years (mercury UV lamp)								
Flow Rate	300-1000 mL/min								
Pressure Rating	20 PSI maximum								
Fluid Connections	1/4" OD tube push-in fittings								
Electrical/Comm.	From controller								
Storage Temp.	-20 to 60°C (-4 to 140°F)								
Operating Temp.	0 to 45°C (32 to 113°F)								
Enclosure	NEMA 4X, wall mountable								
Weight	22 lb				24 lb				
Dimensions	17"H x 14.25"W x 7.5"D				17.75"H x 15.5"W x 6.75"D				
Warranty	2-year limited warranty (Extended care packages available)								
Sensor Upgrades	High Temp. Upgrade I, High Temp. Upgrade II								

* Technical Specifications are subject to change without notice.

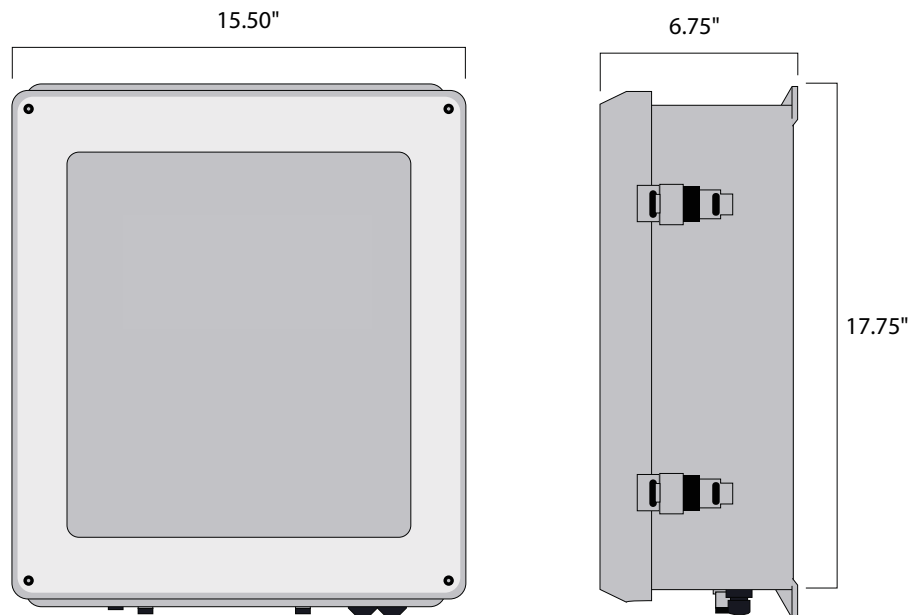
DIMENSIONS

The UV254 sensor is bypass cabinet instrument installed directly on a wall, railing or system backboard. Sample is supplied to the sensor from either a pressurized source or from an open-channel using an accessory pumping system.

DIMENSIONS FOR 2000 SERIES AND 3000 MODELS



DIMENSIONS FOR 4000 SERIES MODELS



SENSOR MODELS & RANGE

Includes UV254 sensor, flow cell, calibration bottle and dehumidifier. Controller and accessories sold separately.

MODEL#	PATH LENGTH	UV254 (cm ⁻¹)
ML2010	1 mm	0 - 20
ML2020	2 mm	0 - 10
ML2040	4 mm	0 - 5
ML2080	8 mm	0 - 2.5
ML3000	10 x 20 mm	0 - 1
ML4050	50 mm	0 - 0.4
ML4100	100 mm	0 - 0.2
ML4150	150 mm	0 - 0.13
ML4250	250 mm	0 - 0.08

* Stated ranges are approximate, dependent on industry, site and application - contact Real Tech to confirm model selection

* Higher maximum range possible with use of Dilution System option

CONTROLLERS

PRODUCT #	NAME	DESCRIPTION
S-169000	Real Controller	Wall mounted controller with 4-line x 20-character back lit LCD display for sensors
S-11TPC	Real Controller Pro	Wall mounted controller with touch panel PC interface (PC inside cabinet model)
S-11TPCD	Real Controller Pro	Wall mounted controller with touch panel PC interface (PC external on door model)

ACCESSORIES

PRODUCT #	NAME	DESCRIPTION
UVT-078130	Real Clean System I	Automatic chemical cleaning system for use with 2000 and 3000 series models
UVT-118010	Real Clean System II	Automatic chemical cleaning system for use with 4000 series models
UVT-079121	Pump Clean System I	Self-priming pump and automatic chemical cleaning for use with 2000 and 3000 series models
UVT-129122	Pump Clean System II	Self-priming pump and automatic chemical cleaning for use with 4000 series models
S-159124	Air Purge Clean System I	Automatic chemical cleaning, air purge and pump (vertical lift less than 8 ft and pumping distance less than 25ft)
S-179125	Air Purge Clean System II	Automatic chemical cleaning, air purge and booster pump (vertical lift exceeds 8ft or pumping distance exceeds 25 ft)
S-179126	Air Purge Clean System III	Automatic chemical cleaning and air purge. Client supplies pump or water is pressurized
S-169092	Dilution System I	Dilution system, automatic chemical cleaning, air purge and pump (vertical lift less than 8 ft and pumping distance less than 25ft)
S-179093	Dilution System II	Dilution system, automatic chemical cleaning, air purge and booster pump (vertical lift exceeds 8ft or pumping distance exceeds 25 ft)
S-179094	Dilution System III	Dilution system, automatic chemical cleaning and air purge. Client supplies pump or water is pressurized
S-1789121	Dual Feed II	Dual feed option includes Digital I/O module for use with controllers

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