OZONE SENSOR

O3L SERIES

REAL
OZONE

O3L SERIES

REALTECH
realtechwater.com

FEATURES & BENEFITS

- Affordable real-time ozone (O_3) monitoring
- Multiple wavelength sensor uses UV LED technology for superior measurement performance
- Wastewater to high purity measurement ranges
- Operator friendly, low maintenance UV LED design
- Reagent free optical measurements
- Simple to install and operate

REAL-TIME MONITORING SOLUTION

Ozone Sensor

Real Tech's bypass Ozone sensor provides affordable real-time measurement of ozone (O_3) in water or wastewater. Designed to meet the needs of many monitoring applications, the O3L series offers multiple sensor path length selections to meet 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. Calibration Health Monitoring ensures accuracy and reliability is maintained so our clients can have the utmost confidence in their results, while our Remote Monitoring platform enables access to data anywhere, anytime.

MEASUREMENT PRINCIPLE

Real Tech's Ozone sensor provides superior measurement performance across multiple wavelengths of light using UV LEDs. Many compounds absorb light in the UV-VIS spectrum, and how much the compounds absorb is directly proportional to their concentration. Compounds that may interfere with ozone measurement are compensated for using additional reference wavelengths. Real Tech's innovative Ozone sensor is advancing water and wastewater management.

MUNICIPAL DRINKING WATER
MUNICIPAL WASTEWATER
INDUSTRIAL PROCESS WATER
INDUSTRIAL WASTEWATER

REALTECH INC.

OZONE SENSOR SPECIFICATIONS

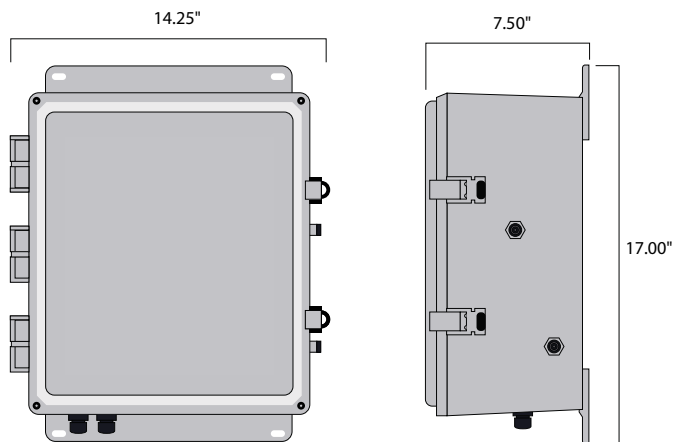| CHARACTERISTIC	TECHNICAL DATA	
Model Series	2000 series	4000 series
Path Length	1, 2, 4, 8 mm	25, 50, 100, 150 mm
Parameters	Ozone (O$_3$)	
Range	Depends on model selected. Refer to range chart.	
Accuracy	± 1% full scale	
Units	mg/L, ppm	
Sampling Time	30 seconds	
Calibration	Factory calibrated. Field 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, leaks, system fault, etc.	
Humidity Control	Humidity sensor with large plug-in regenerating desiccant system	
Wavelength	Multiple wavelengths	
Light Source	UV LED	
Flow Rate	300-1000 mL/min	
Pressure Rating	20 PSI maximum	
Fluid Connections	1/4" OD tube push-in fittings	
Wetted Materials	Kynar, Polyethylene, Quartz, SS 316L, Viton	
Electrical/Comm.	From controller	
Ambient Temp.	0 to 45°C (32 to 113°F)	
Water Temp.	0 to 90°C (32 to 194°F) at 21°C (69.8°F) Ambient temperature	
Enclosure	NEMA 4X, wall mountable	
Weight	22 lb	24 lb
Dimensions	17"H x 14.25"W x 7.5"D	15.82"H x 13.82"W x 9.00"D
Warranty	2-year limited warranty (Extended care packages available)	

* Technical Specifications are subject to change without notice.

* Water temperature range based on material compatibility only. Contact Real Tech to verify application.
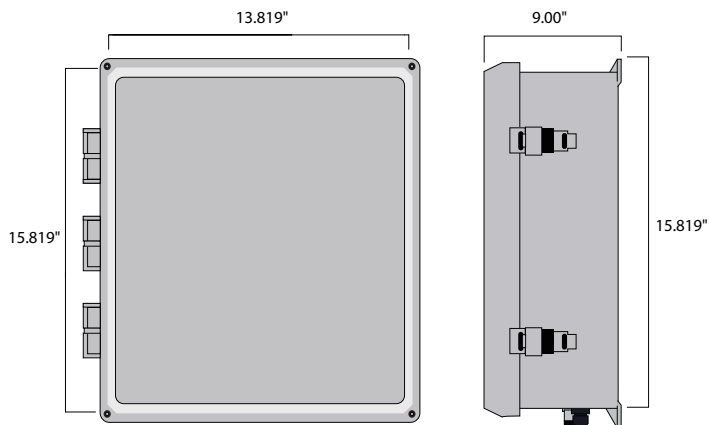
DIMENSIONS

The ozone sensor is a 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 MODELS

14.25"

7.50"

17.00"

DIMENSIONS FOR 4000 SERIES MODELS

13.819"

9.00"

15.819"

15.819"

SENSOR SELECTION

MODEL SERIES	DESCRIPTION
2000	Ideal for general water monitoring applications
4000	Ideal for high purity water monitoring applications

SENSOR MODELS & RANGE

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

MODEL#	PATH LENGTH	OZONE (mg/L)
O3L2010	1 mm	0 - 128
O3L2020	2 mm	0 - 64
O3L2040	4 mm	0 - 32
O3L2080	8 mm	0 - 16
O3L4025	25 mm	0 - 6.4
O3L4050	50 mm	0 - 3.2
O3L4100	100 mm	0 - 1.6
O3L4150	150 mm	0 - 1

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

CONTROLLERS

Controllers include proprietary inputs for Real Tech sensors and accessories.

PRODUCT #	NAME	DESCRIPTION
S--229005	Real Controller Lite	Wall mounted controller with 4-line x 20-character back lit LCD display. Includes modbus RTU (RS485)
S-169000	Real Controller	Wall mounted controller with 4-line x 20-character back lit LCD display. Includes modbus RTU (RS485), 1 channel of 4-20 mA out and digital I/O module
S-11TPC	Real Controller Pro	Wall mounted controller with 12.1" colour LCD touch panel PC interface (PC inside cabinet model). Includes Modbus TCP
S-11TPCD	Real Controller Pro	Wall mounted controller with 12.1" colour LCD touch panel PC interface (PC external on door model). Includes Modbus TCP

ACCESSORIES

PRODUCT #	NAME	DESCRIPTION
UVT-078130	Real Clean System I	Automatic chemical cleaning system for use with 2000 series models
UVT-118010	Real Clean System II	Automatic chemical cleaning system for use with 4000 series models
S-178121	Dual Feed II	Dual feed option includes Digital I/O module for use with controllers

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