

TOC SENSOR

OL SERIES



FEATURES & BENEFITS

- Affordable real-time TOC 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

MUNICIPAL DRINKING WATER
MUNICIPAL WASTEWATER
INDUSTRIAL PROCESS WATER
INDUSTRIAL WASTEWATER

WATER QUALITY
MONITORING
SOLUTIONS

REAL-TIME MONITORING SOLUTION

TOC Sensor

Real Tech's bypass TOC sensor provides affordable real-time measurement of organic matter in water or wastewater. Designed to meet the needs of many monitoring applications, the OL 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 are 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 TOC sensor provides superior measurement performance across multiple wavelengths of light using UV LEDs. Many compounds absorb light in the UV-VIS spectrum including organic compounds. The sensor measures organics in a multi-dimensional way that results in improved correlations to aggregate organic water quality parameters, such as TOC and DOC. This allows the sensor to be able to detect changes in the composition of organics independently of their concentration. Real Tech's innovative TOC sensor is advancing water and wastewater management.

REALTECH
INC.



TOC SENSOR SPECIFICATIONS

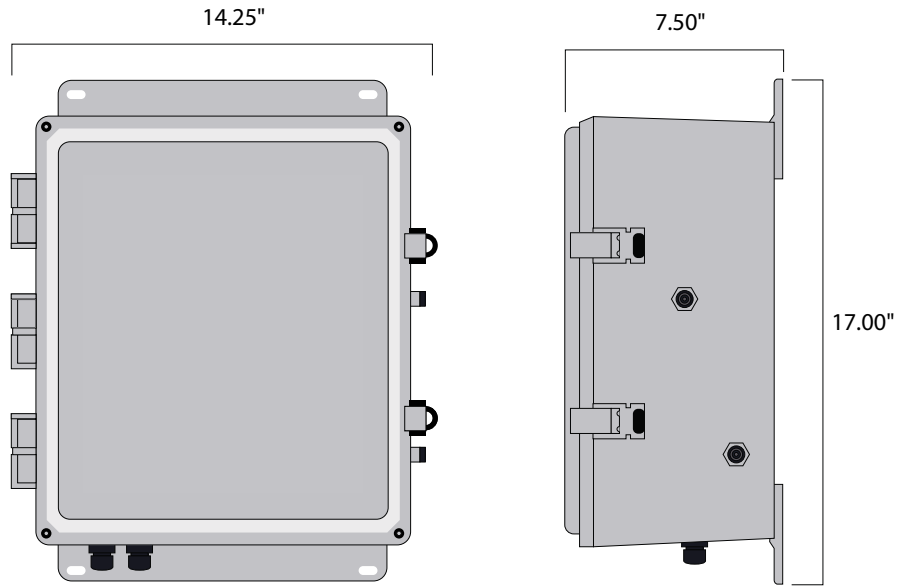
CHARACTERISTIC	TECHNICAL DATA								
	MODEL	OL2010	OL2020	OL2040	OL2080	OL4025	OL4050	OL4100	OL4150
Path Length	1 mm	2 mm	4 mm	8 mm	25 mm	50 mm	100 mm	150 mm	
Parameters	TOC, DOC								
Range	Depends on model selected. Refer to range.								
Units	mg/L, ppm								
Sampling Time	30 seconds								
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								
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.

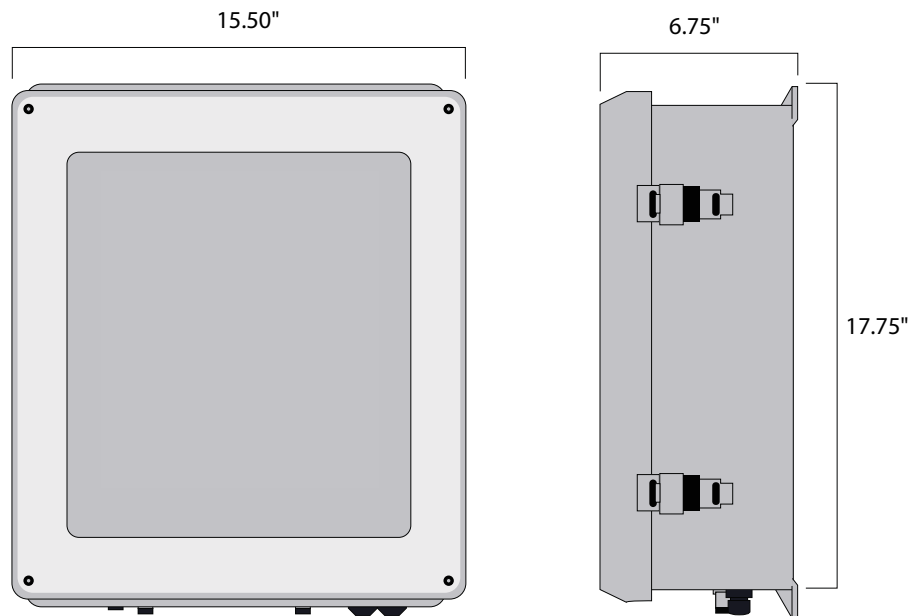
DIMENSIONS

The TOC 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



DIMENSIONS FOR 4000 SERIES MODELS



SENSOR MODELS & RANGE

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

MUNICIPAL

MODEL#	PATH LENGTH	TOC/DOC (mg/L)
OL2010	1 mm	0 - 400
OL2020	2 mm	0 - 200
OL2040	4 mm	0 - 100
OL2080	8 mm	0 - 50
OL4025	25 mm	0 - 16
OL4050	50 mm	0 - 8
OL4100	100 mm	0 - 4
OL4150	150 mm	0 - 2.5

DAIRY

MODEL#	PATH LENGTH	TOC/DOC (mg/L)
OL2010	1 mm	0 - 1250
OL2020	2 mm	0 - 625
OL2040	4 mm	0 - 300
OL2080	8 mm	0 - 150

BEVERAGE

MODEL#	PATH LENGTH	TOC/DOC (mg/L)
OL2010	1 mm	0 - 3000
OL2020	2 mm	0 - 1500
OL2040	4 mm	0 - 750
OL2080	8 mm	0 - 375

BREWERY

MODEL#	PATH LENGTH	TOC/DOC (mg/L)
OL2010	1 mm	0 - 3000
OL2020	2 mm	0 - 1500
OL2040	4 mm	0 - 750
OL2080	8 mm	0 - 375

MEAT PROCESSING

MODEL#	PATH LENGTH	TOC/DOC (mg/L)
OL2010	1 mm	0 - 1250
OL2020	2 mm	0 - 625
OL2040	4 mm	0 - 300
OL2080	8 mm	0 - 150

PULP & PAPER

MODEL#	PATH LENGTH	TOC/DOC (mg/L)
OL2010	1 mm	0 - 250
OL2020	2 mm	0 - 125
OL2040	4 mm	0 - 60
OL2080	8 mm	0 - 30

* 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 series models
UVT-118010	Real Clean System II	Automatic chemical cleaning system for use with 4000 series models
S-1789121	Dual Feed II	Dual feed option includes Digital I/O module for use with controllers

Real Tech Inc.

1150 Champlain Court,
Whitby, Ontario L1N 6K9 Canada
TF: 1.877.779.2888 T: 1.905.665.6888
info@realtechwater.com

REALTECH
INC.