

# BENZENE SENSOR

**BZL** SERIES



## FEATURES & BENEFITS

- Affordable real-time benzene 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

### Benzene Sensor

Real Tech's bypass Benzene sensor provides affordable real-time measurement of benzene in water or wastewater. Designed to meet the needs of many monitoring applications, the BZL 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 Benzene 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 benzene measurement are compensated for using additional reference wavelengths. Real Tech's innovative Benzene sensor is advancing water and wastewater management.

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# BENZENE SENSOR SPECIFICATIONS

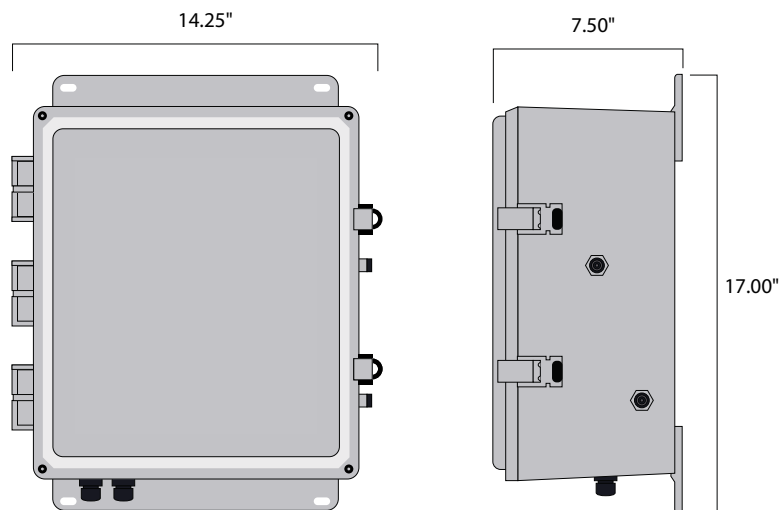
CHARACTERISTIC	TECHNICAL DATA								
	MODEL	BZL2010	BZL2020	BZL2040	BZL2080	BZL4025	BZL4050	BZL4100	BZL4150
Path Length	1 mm	2 mm	4 mm	8 mm	25 mm	50 mm	100 mm	150 mm	
Parameters	Benzene								
Range	Depends on model selected. Refer to range chart.								
Units	mg/L, ppm, µg/L								
Sampling Time	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.

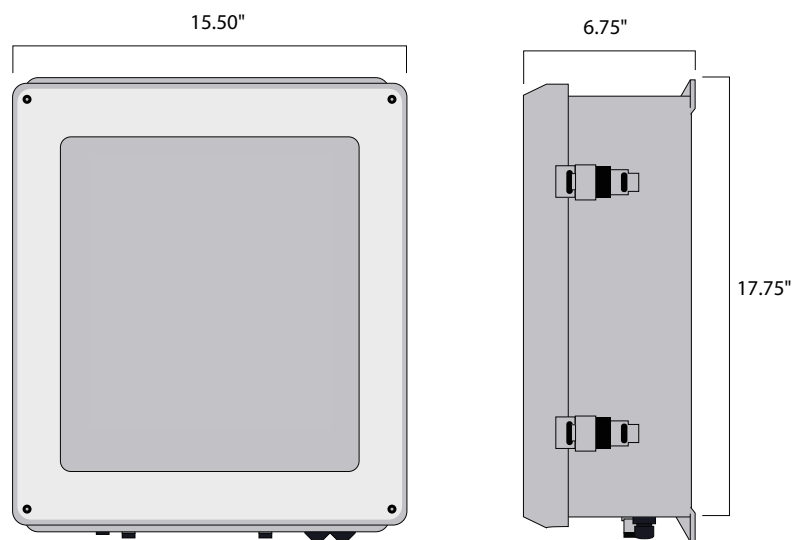
## DIMENSIONS

The benzene 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 benzene sensor, flow cell, calibration bottle and dehumidifier. Controller and accessories sold separately.

MODEL#	PATH LENGTH	BENZENE (mg/L)
BZL2010	1 mm	0 - 11,000
BZL2020	2 mm	0 - 5500
BZL2040	4 mm	0 - 2750
BZL2080	8 mm	0 - 1375
BZL4025	25 mm	0 - 440
BZL4050	50 mm	0 - 220
BZL4100	100 mm	0 - 110
BZL4150	150 mm	0 - 70

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

## 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
UVT-079121	Pump Clean System I	Self-priming pump and automatic chemical cleaning for use with 2000 series models
UVT-129122	Pump Clean System II	Self-priming pump and automatic chemical cleaning for use with 4000 series models
S-1789121	Dual Feed II	Dual feed option includes Digital I/O module for use with controllers

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