

MULTI-WAVE PROBE

SA-X SERIES



FEATURES & BENEFITS

- Affordable real-time water quality monitoring
- Multiple wavelength sensor uses patent-pending technology for superior measurement performance
- Robust submersible probe with titanium housing
- Operator friendly, low maintenance UV LED design
- Reagent free optical measurements
- Simple to install and operate
- Multiple parameter configuration available
- Parameters include BOD, COD, TOC, DOC, UV254, UVT, TSS, colour, O3

MUNICIPAL DRINKING WATER
MUNICIPAL WASTEWATER
INDUSTRIAL PROCESS WATER
INDUSTRIAL WASTEWATER

WATER QUALITY
MONITORING
SOLUTIONS

REAL-TIME MONITORING SOLUTION

Multi-Wave Probe

Real Tech's robust Multi-Wave submersible probe provides affordable real-time measurement of organic matter and other compounds in water or wastewater. The probe's rugged titanium body is built to withstand harsh environments. Designed to meet the needs of many monitoring applications, the SA-X series offers multiple 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 compressed air 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 Multi-Wave probe utilizes patent-pending technology to provide 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 measurement are compensated for using additional reference wavelengths. Real Tech's innovative Multi-Wave probe is advancing water and wastewater management.

REALTECH
INC.



MULTI-WAVE PROBE SPECIFICATIONS

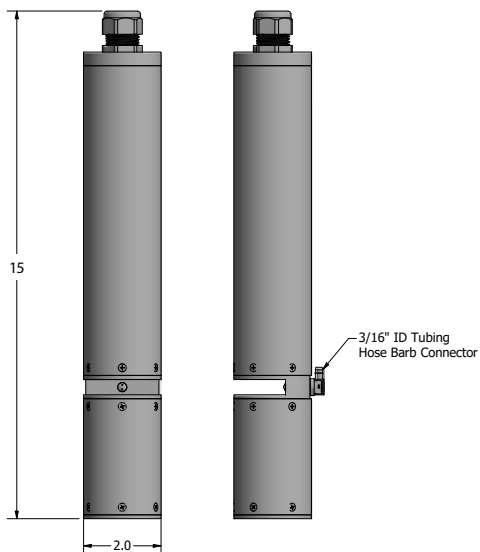
CHARACTERISTIC	TECHNICAL DATA				
MODEL	SA-X2005	SA-X2010	SA-X2020	SA-X2040	SA-X2100
Path Length	0.5 mm	1 mm	2 mm	4 mm	10 mm
Parameters	Customized to application. BOD, COD, TOC, DOC, UV254, UVT, TSS colour, O ₃				
Range	Depends on model selected. Refer to range chart.				
Units	Parameter specific (mg/L, cm ⁻¹ , % or PCU)				
Sampling Time	10 seconds				
Calibration	Factory calibrated. Field adjustment of calibration is possible.				
Cleaning	Automatic compressed air cleaning with optional Real Air Clean Systems				
Self-Diagnostics	Detection and diagnosis of internal system fault				
Alarms	Continuous detection of leaks, lamp output, humidity, temperature and electrical fault				
Humidity Control	Humidity sensor with desiccant pack				
Wavelengths	Multiple UV and VIS wavelengths. Application-dependent				
Light Source	UV LED				
Electrical/Comm.	From controller				
Storage Temp.	-20 to 60°C (-4 to 140°F)				
Operating Temp.	0 to 45°C (32 to 113°F)				
Housing Material	Titanium				
Weight	4.6 lb				
Dimensions	15" H x 2.0" Diameter				
Warranty	2-year limited warranty (Extended care packages available)				

* Technical Specifications are subject to change without notice.

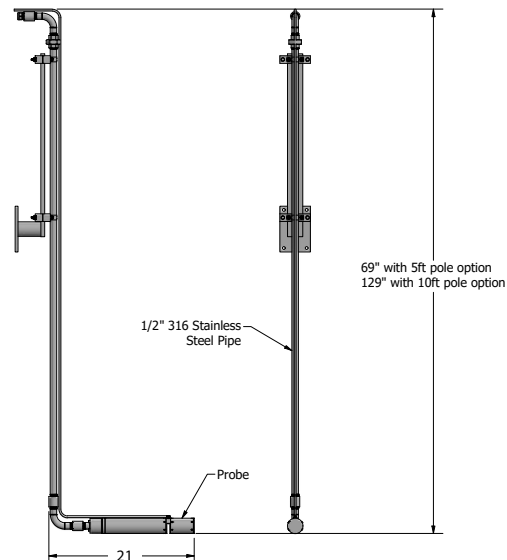
DIMENSIONS

The multi-wave probe is a submersible instrument installed directly in-situ using a mounting kit attached to a tank wall or railing.

DIMENSIONS FOR MULTI-WAVE PROBE



MOUNTING FOR MULTI-WAVE PROBE



PROBE MODELS & RANGE

Includes multi-wave probe sensor and 35 feet of communication cable.
Controller, mounting kit and cleaning system sold separately.

MODEL#	PATH LENGTH	BOD (mg/L)	COD (mg/L)	TOC/DOC (mg/L)	UV254 (cm ⁻¹)	UVT (%)	COLOUR (PCU)
SA-X2005	0.5 mm	0 - 1500	0 - 3000	0 - 800	0 - 40	0 - 100	0 - 20,000
SA-X2010	1 mm	0 - 750	0 - 1500	0 - 400	0 - 20	0 - 100	0 - 10,000
SA-X2020	2 mm	0 - 375	0 - 750	0 - 200	0 - 10	0 - 100	0 - 5000
SA-X2040	4 mm	0 - 190	0 - 375	0 - 100	0 - 5	0 - 100	0 - 2500
SA-X2100	10 mm	0 - 75	0 - 150	0 - 40	0 - 2	1 - 100	0 - 1000

* 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
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
S-188101	Air Clean System I	Air cleaning valve module requires on-site air (no compressor)
S-188102	Air Clean System II	Low power automatic CO ₂ air cleaning system
S-188103	Air Clean System III	Automatic compressed air cleaning system including compressor
S-219081	Probe Mounting Kit I	Provides secure mounting attachment for titanium probe to a tank wall or open channel wall. No pole included.
S-219082	Probe Mounting Kit II	Provides secure mounting attachment for titanium probe to a tank wall or open channel wall. 5' pole included.
S-219083	Probe Mounting Kit III	Provides secure mounting attachment for titanium probe to a tank wall or open channel wall. 10' pole included.

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