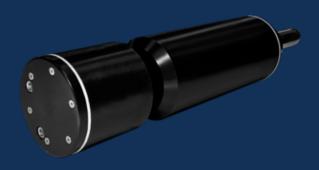
WATER QUALITY MONITORING SOLUTIONS

UV254 PROBE SENSOR

S SERIES



FEATURES & BENEFITS

- · Accurate, reliable and affordable
- · Real-time UVT or UVA organics monitoring
- · Long-life UV LED light source
- Innovative custom calibration limits maintenance
- Robust submersible probe for in-situ measurement
- · Simple to install and easy to operate

OVERVIEW

Real Tech's UV254 probe sensor provides rapid real-time measurement of organic matter in water or wastewater. Continuous organic monitoring can bring significant value to many applications including UV disinfection.

The effectiveness of a UV disinfection system is determined by the UV dose that the system is able to deliver to the water. The UV dose is dependent primarily on the combined effects of the UV light intensity, the exposure time of the system and the UV transmittance (UVT) of the water. Therefore, precise and reliable UVT monitoring is required for optimal performance and efficiency. Real Tech's S series probe is cost effective and accurate, making it a practical choice for many UV disinfection applications.

MEASUREMENT PRINCIPLE

The S series sensor utilizes light at 254 nm wavelength as most organic compounds (specifically aromatic organics) absorb light at this wavelength. Benefiting from a long-life UV LED lamp, accurate and stable measurements are obtained with minimal maintenance or operator intervention. Measurement can be expressed as UVT or UV254.







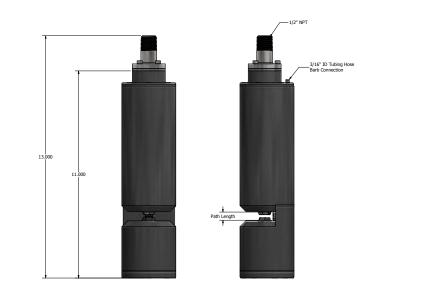
CHARACTERISTIC		TECHNIC	AL DATA		
MODEL	S2010	S2020	S2040	S2100	
Path Length	1 mm	2 mm	4 mm	10 mm	
Parameters	UVT or UV254				
Range	Depends on model selected. Refer to range chart on next page.				
Accuracy		± 0.5	% FS		
Units		% or	cm ⁻¹		
Sampling Time		10 sec	conds		
Calibration	Zero	to DI water or custom calibra	ation to existing process sa	mple.	
Cleaning		Real Air Clean automatic pre	ssurized air cleaning systen	า	
Self-Diagnostics		Detection and diagnosis	of internal system fault		
Alarms	Continuous det	tection of leaks, lamp output	, humidity, temperature an	d electrical fault	
Humidity Control		Humidity sensor w	ith desiccant pack		
Wavelength		254	nm		
Light Source		LE	D		
Electrical/Comm.		From co	ntroller		
Storage Temp.		-20 to 60°C (-4 to 140°F)		
Operating Temp.		0 to 45°C (3	2 to 113°F)		
Weight		51	b		
Dimensions	11" H x 2.875" Diameter				
Warranty	2-	-year limited warranty (Exter	nded care packages availab	le)	

^{*} Technical Specifications are subject to change without notice.

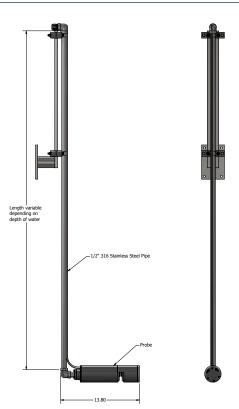
DIMENSIONS

S series sensors are submersible probe instruments installed directly in-situ using a mounting kit attached to a tank wall or railing.

DIMENSIONS FOR S PROBE



MOUNTING FOR S PROBE



MODELS & RANGE

The S series models include UV254 probe sensor, 35 feet of communication cable and 35 feet of air tubing . Controller, mounting kit and cleaning system sold separately.

MODEL	PATH LENGTH	UV254 (cm ⁻¹)	UVT (%)
S2010	1 mm	0 - 20	0 - 100
S2020	2 mm	0 - 10	0 - 100
S2040	4 mm	0 - 5	0 - 100
S2100	10 mm	0 - 2	1 - 100

 $^{^{*}}$ Stated ranges approximate, dependent on industry, site and application - contact Real Tech to confirm model selection

ACCESSORIES

PRODUCT#	NAME	DESCRIPTION
S-169000	Real Controller	Wall mounted controller with 4-line x 20-character back lit LCD display for sensors
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 ${\rm CO}_2$ air cleaning system
S-188103	Air Clean System III	Automatic compressed air cleaning system including compressor
S-189031	LED Probe Mounting Kit I	Provides secure mounting attachment to a tank wall or open channel wall for S series sensor. No pole included
S-189032	LED Probe Mounting Kit II	Provides secure mounting attachment to a tank wall or open channel wall for S series sensor. 5ft pole included
S-189033	LED Probe Mounting Kit III	Provides secure mounting attachment to a tank wall or open channel wall for S series sensor. 10ft pole included

