



Parameters:*
UVT-254

SAC (total and soluble)

Correlated Parameters:

COD

TOC

BOD

DOC

*Only one parameter can be displayed at a time.



A 5 mm gap YSI UV sensor deployed after one week with UltraClean continuous, ultrasonic cleaning technology. No fouling observed.



YSI IQ UVT-254 Probe

UVT-254/SAC Measurement with Correlated Carbon Measurements for the IQ SensorNet System

The YSI UVT-254 sensor is a reagentless, optical-based absorption (SAC) and transmittance (UVT) sensor built into a rugged, corrosion-resistant field probe for the IQ SensorNet system. The probe measures UVT-254 and SAC (spectral absorption coefficient - total and soluble) and can provide correlated values for COD, TOC, BOD and DOC. The probe measures the absorption at two wavelengths: 254 nm and 550 nm to compensate the SAC measurement for interferences from turbidity. The probe's built-in UltraClean® ultrasonic cleaning technology reduces routine maintenance.

- 2 wavelength absorption measurement: 254 and a second at 550 nm for turbidity compensation
- SAC measurement used to determine organic loading without reagents
- UVT-254 measurement used to determine required
 UV light intensity and contact time for disinfection, lowering a facility's disinfection costs
- Factory calibrated
- 2-year warranty
- Measurement directly in the process, no sample processing, or reagent required
- Maximum durability due to high-tech materials Titanium/PEEK
- Maintenance free ultrasonic cleaning with built-in UltraClean technology prevents biofouling from taking place. Built-in air holes for added air cleaning in high fouling applications.

IQ UV probes are rugged, accurate and designed to withstand field conditions. The optics are kept clean with UltraClean technology.

Measurement Method	Absorption measurement at 254 nm	
Measurement Range	IQ UVT-254 701 (high range SAC values)	IQ UVT-254 705 (low range SAC values)
UVT-254*	0.0 to 100.0 %	0.0 to 100.0 %
SAC 254 soluble	0 to 3,000 1/m	0.0 to 600.0 1/m
SAC-254 total	0.0 to 3,000 1/m	0.0 to 600.0 1/m
COD dissolved (correlated)	0.0 to 12,500 mg/L	0.0 to 800.0 mg/L
COD total (correlated)	0.0 to 20,000 mg/L	0.0 to 800.0 mg/L
TOC (correlated)	0.0 to 20,000 mg/L	0.0 to 500.0 mg/L
BOD (correlated)	0.0 to 8,000 mg/L	0.0 to 500.0 mg/L
DOC (correlated)	0.0 to 12,500 mg/L	0.0 to 500.0 mg/L
Resolution (range dependent)	IQ UVT-254 701 (high range SAC values)	IQ UVT-254 705 (low range SAC values)
UVT-254*	1 1/m, 0.1 %, 1 mg/L	0.1 1/m, 0.1%, 0.1 mg/L
SAC 254 soluble	1 1/m	0.1 1/m
SAC-254 total	11/m	0.1 1/m
COD dissolved (correlated)	1 mg/L	0.1 mg/L
COD total (correlated)	1 mg/L	0.1 mg/L
TOC (correlated)	1 mg/L	0.1 mg/L
BOD (correlated)	1 mg/L	0.1 mg/L
DOC (correlated)	1 mg/L	0.1 mg/L
Turbidity Compensation	Yes	
Operating Temperature	0 to 45 °C (32 to 113 °F)	
Storage Temperature	-10 to 50 °C (14 to 122 °F)	
Warranty	2-years	
Flow Rate	\leq 3 m/s (\sim 1 ft/s)	
pH range	4 to 12 units	
Cleaning System	UltraClean, ultrasonic cleaning system built directly into the sensors; air cleaning also available	
Dimensions	Length 802 mm (31.5 in); diameter 59.9 mm (2.36 in); weight ~ 7.8 kg (17.2 lbs)	
Certifications	CE, cETLus	
Protection Class	Sensor with SACIQ cable connected: IP68	
Pressure Resistance	1 bar (14.5 psi)	
Lightning/Voltage Protection	Yes	
Electrical	Power Consumption: 8 W, Two wire shielded IQ cable provides power and communication	
Materials	Housing: Titanium 3.7035, PEEK	
	Window: Sapphire glass	
Q UVT-254 Optica eperately)	al Sensor Ordering Information	N (must be used with the YSI IQ SensorNet, sensor cable sold
Q UVT-254 701	1 mm path length optical SAC and UVT-254 sens	sor for water/wastewater monitoring and control; integrated UltraClean
tem #481 036Y	technology provides ultrasonic continuous cleaning; includes protective guards	
	5 d d d d CAC lingues (, ,) , , , , , , , , , , , , , , , ,	

^{*} The UVT-254 value is standardized to 10 mm gap width.

Visit YSI.com/IQ for additional information on the entire IQ SensorNet system.

YSI

IQ UVT-254 705

Item #481 038Y

1725 Brannum Lane, Yellow Springs, OH 45387 Tel +1 937.767.7241 800.897.4151 (US) environmental@ysi.com YSI.com @YSIinc facebook.com/myYSI

Toncom & Tonne Tuecook.com/my Ton



5 mm path length optical SAC and UVT-254 sensor for water/wastewater monitoring and control; integrated UltraClean

technology provides ultrasonic continuous cleaning; includes protective guards

