

## Optimizing Measurement of Natural Organic Materials (NOMs)

UV254 measurement delivers a swift, responsive, and cost-efficient solution for managing and optimizing your water treatment processes.

By leveraging ultraviolet light at 254 nanometres, this method offers real-time insights into natural organic materials and other critical water quality parameters.

This approach not only enhances the efficiency of your water treatment operations but also allows for timely adjustments to maintain optimal performance.



## Applications



### Drinking Water

- Reverse Osmosis
- UV Disinfection



### Waste Water

- Source Water Monitoring and Protection
- Coagulation Optimization
- DBP Formation Potential
- Distribution System Contamination

## Benefits

### Fast, Accurate Results

- Real-time measurement of BOD, COD, TOC, and DOC surrogates
- Measurements every 10 seconds
- Options available in stainless steel

### Operational Efficiencies

- No reagent costs
- No moving parts, minimizing maintenance
- Low energy consumption
- Long-lasting light source

### Easy Installation & Placement

- Complete system available
- Modbus interface for integration with third-party controllers

<b>Measurements</b>	UVT, UVA and SUVA IRT, IRA & TSS values Surrogate measurements TOC, BOD, COD and others
<b>Range</b>	0-100% UVT 0-2.5 ABS (Max 10ABS on 2mm probe)
<b>Accuracy</b>	±0.5% UVT
<b>Repeatability</b>	±0.05% UVT
<b>Path Length</b>	2, 5, 10, 20 or 50mm
<b>Sampling Time</b>	10 Seconds
<b>Buffering Time</b>	≤ 1minute
<b>Probe Material</b>	Stainless Steel
<b>Wavelength</b>	254nm for UV 880nm for Infrared
<b>Light Source</b>	Deep UV LED, IR LED Long life, self monitoring
<b>Dimensions</b>	Probe: 39mm diameter Height 150mm + path length

<b>Operating Conditions</b>	1 to 45 °C, max 80% relative humidity (non-condensing)
<b>Storage Conditions</b>	-20 to 60 °C, max 80% relative humidity (non-condensing)
<b>Enclosure Rating</b>	Probe IP68
<b>Warranty</b>	12 Months
<b>Power</b>	12V
<b>Conformity EMC</b>	EN61326
<b>Conformity Safety</b>	EN61010
<b>Compliance</b>	CE Marked
<b>Cable Length</b>	Standard 10m

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\* Indicative measurement requires routine calibration to standard procedures, as the water matrix chemistry may change with time.

# Measurement of SUVA requires the probe to be periodically updated with the current dissolved organic carbon from the water.