

Real-Time, Reagent-Free Monitoring of Natural Organic Matter in Open Water

Our portable Dip Probe can be submerged to measure TOC, BOD, and COD without costly reagents, detecting Natural Organic Matter (NOM) and providing trend data and real-time information for process optimization through UVA, UVT, and SUVA measurements.

UV254 measurement offers a fast, responsive, and cost-efficient method for optimizing processes, supporting effective aeration management, precise chemical dosing, and monitoring UV disinfection performance.



Applications



Drinking Water

- Distribution system contamination
- Source water monitoring /protection
- UV Disinfection
- Reverse Osmosis
- By-product formation



Waste Water

- Distribution system contamination
- Source water monitoring /protection
- UV Disinfection
- By-product formation



Environmental Monitoring

- Rivers and lakes
- Groundwater
- Pollution control

Benefits

Fast, Accurate Results

- Real-time indication of BOD, COD, TOC, and DOC surrogates
- Infrared reading for TSS
- Long-life LEDs ensure consistent performance
- Measurements obtained within seconds

Operational Efficiencies

- No consumables—no hidden costs
- Use in open water with a light shield
- Internal battery and various charging options
- Range of measurement options

Ease of Use

- Intuitive, modern, and easy-to-use interface
- Lightweight and portable device
- Suitable for use by anyone without specialized training

Data Integrity

- Date & time-stamped results for accuracy
- Easy transfer of Excel-compatible data via USB
- Secure storage of results for up to 10 years

Measurements	UVT, UVA and SUVA IRT, IRA & TSS values Surrogate measurements TOC, BOD, COD and others
Range	0-100% UVT 0-2.5 ABS (Max 10ABS on 2mm probe)
Accuracy	±0.5% UVT
Repeatability	±0.05% UVT
Path Length	2, 5, 10, 20 or 50mm
Sampling Time	10 Seconds
Probe Material	Stainless Steel
Wavelength	254nm for UV 860nm for Infrared
Light Source	Deep UV LED, IR LED Long life, self monitoring
Dimensions	Probe: 39mm diameter Height 150mm + path length

Operating Conditions	1 to 45 °C, max 80% relative humidity (non-condensing)
Storage Conditions	-20 to 60 °C, max 80% relative humidity (non-condensing)
Enclosure Rating	Probe IP68
Warranty	2 years
Conformity EMC	EN61326
Conformity Safety	EN61010
Cable Length	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.