Sievers* M5310 C TOC Analyzers



Process Optimization and Regulation Compliance with Ease

Sievers M5310 C Total Organic Carbon (TOC) Analyzers are designed specifically for the drinking water industry. Monitoring organic matter at drinking water treatment facilities can help plant operators understand changes in water quality and make informed decisions about treatment processes. Designed to minimize operator intervention, the Sievers M5310 C Analyzers offer cost-effective, reliable measurements—enabling process optimization and regulation compliance with ease.

We've Got You Covered

For both raw and finished water monitoring, the Sievers M5310 C promises peace of mind when measuring organics at treatment plants or within distribution systems. Sievers M5310 C Analyzers recover difficult-to-oxidize organic compounds, such as humic acid, and detect organics of all molecular weights and chemical structures, including complex aromatics.

The analyzers are compliant with Standard Methods 5310 C and US EPA 415.3 using UV persulfate oxidation with membrane conductivity detection.

The innovative Membrane Conductometric Detection technology has proven to be an extremely reliable method for measuring TOC and delivers unmatched stability. Calibration is recommended for Sievers M5310 C Analyzers just once per year and can easily be conducted on-site. In addition, utilization of the analyzers supports compliance with Disinfectants and Disinfection Byproducts (DBP) Rules through automatic calculations of TOC % removal for influent and effluent streams or samples. TOC analysis at water treatment facilities is quick and easy with the Sievers M5310 C and can help optimize chemical dosing for coagulation, flocculation, and other processes, ultimately leading to cost savings and avoidance of costly repairs.

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Quick to set up, easy to use and maintain

- Pre-calibrated for simple installation —no warm up periods or high temperature operation
- No need for special training to set up, operate, or maintain
- Minimal maintenance — typically just a few hours per year
- Modular design for quick consumables replacement
- Online and portable models now with IP-45 and IP-21 enclosure ratings, respectively
- Self-contained with small footprint and internal reagent packs — no external chemicals, catalysts, or gas supplies required
- Easy data communications — export or collect data via USB, 4-20 mA, or Modbus TCP/IP outputs

Sievers Membrane Conductometric Detection technology delivers unmatched stability, preventing significant drift over time. The recommended calibration for Sievers M5310 C is just once per year and can easily be conducted onsite. In contrast, TOC Analyzers that use non-dispersive infrared (NDIR) detection may require weekly or even daily calibration.



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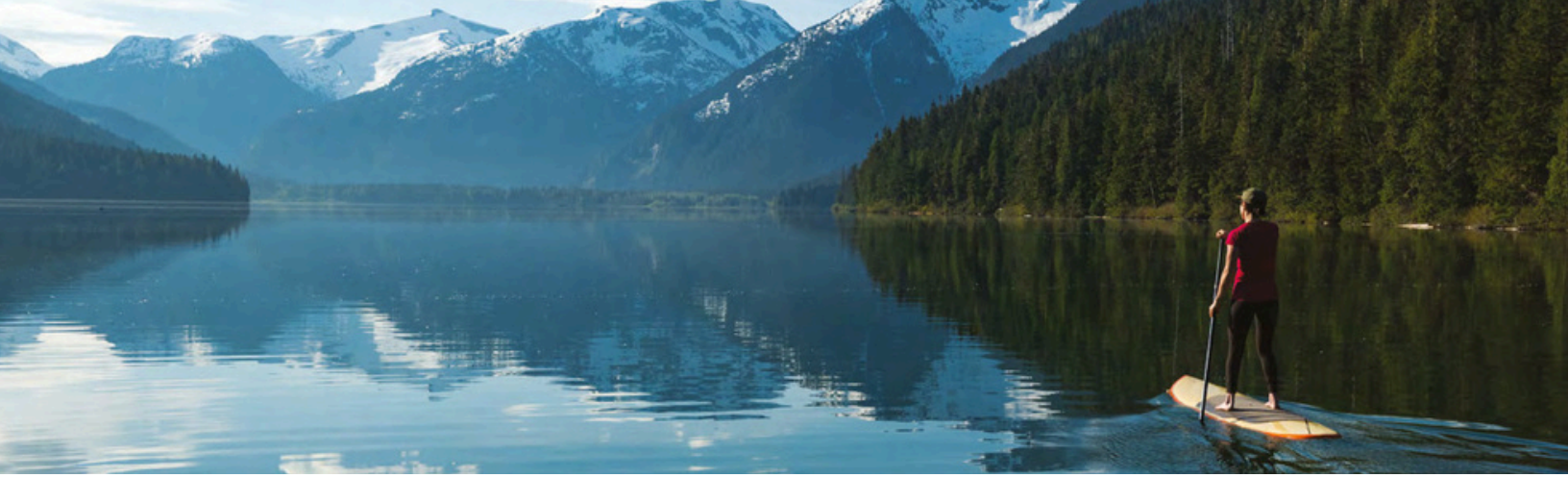


Optional Accessories and Configurations

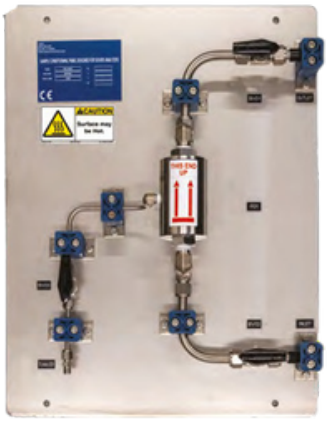
•The high-capacity Autosampler enables 24+ hours of unattended sample analysis (63 or 120 sample position capacity) with either the Sievers M5310 C Portable or Laboratory Analyzers.

• Sievers DataPro2 software integrates the Autosampler with the Sievers M5310 C Laboratory and Portable Analyzers to provide timesaving features to maximize productivity and ensure easy TOC data management.

• A unique Integrated Online Sampling (iOS) system conveniently allows standards or grab samples to be introduced without removing the instrument from the continuous sample source or changing the sample inlet configuration. Available on Sievers M5310 C Portable and Online Analyzers.

• The Two-Stream Inlet configuration for the Sievers M5310 C Online Analyzer enables automatic sampling of influent and treated water with adjustable reagent flow rates for each stream. One stream can be dedicated to raw water and another to finished water for DBP Rule monitoring.

Sampling Options



Sievers Sample Conditioning Panel

The Sievers Sample Conditioning Panel provides optional high-performance filtration specifically designed to meet the sample specifications of the Sievers M5310 C Online TOC Analyzer, protecting against clogging, fouling, and contamination from excessive particulate matter. Panel features include:

- Optimized cross-flow (fast loop) design with a high bypass flow to sample ratio that provides self cleaning, significantly reduces maintenance cycles and ensures a fresh, representative sample is always delivered to the analyzer.
- Premium all-stainless construction: Industrial-grade stainless steel tubing and fittings provide maximum durability and chemical resistance in harsh industrial environments.
- Easy installation and servicing: Designed for quick mounting directly on a wall or tabletop next to the analyzer without requiring specialized tools, expertise, electrical power, or data connections.

Faster and smarter to optimize your water treatment process

- Compliant with USEPA Approved Analytical Method (SM 5310C and USEPA 415.3)
- Equipped with standard internal Inorganic Carbon Removal (ICR) module for improved accuracy when analyzing water high in inorganic carbon (IC)
- Autoreagent mode for automatic calculation and implementation of optimal reagent flow rates
- Easily integrated into current plant setup for continuous online measurements or grab mode sampling
- Broad analytical range from 4 ppb to 50 ppm
- Results in as little as two minutes
- User friendly, dashboard-style, touchscreen interface for simple operation and data review
- At-a-glance consumable status
- Streamlined, faster system protocols
- Informative error and alert messages for simplified troubleshooting
- Secure database structure for improved data searches and queries

Sievers Certified Plus

Protect your TOC analyzer investment with Certified Plus expert services. From start up, preventative maintenance, to warranties, Certified Plus ensures a reliable and accurate TOC measurement solution. For more information on how to order anything and everything you need to keep you up and running, please visit www.veoliawatertech.com.



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TOC Standards

Sievers Certified reference materials represent a comprehensive offering of ready-to-use TOC standards for calibration and verification. Our large-scale production capabilities provide substantial cost advantages over in-house preparation, and our expertise in preparing and storing standards allows us to guarantee the accuracy and extended shelf life of Sievers Standards, even at low concentrations.

Comprehensive Technical Support

As the world's leading manufacturer of TOC analyzers, we continuously strive to exceed expectations by providing superior technology, design, quality, and service. Our team provides ongoing phone and electronic technical support as well as onsite installation, maintenance, calibration, and training services.

System Specifications

	Sievers M5310 C Laboratory Analyzer	Sievers M5310 C Online Analyzer	Sievers M5310 C Portable Analyzer
Operating Specifications			
Range	4 ppb to 50 ppm		
Precision	<1% RSD		
Accuracy	± 2% or ± 0.5 ppb, whichever is greater		
Sample Type	Autosampler or discrete grab sample and TOC removal grab	Online continuous or discrete grab sample, online timed, TOC removal online, TOC removal grab	Online continuous, Autosampler, or discrete grab sample, online timed, TOC removal grab
Display Readout	3 significant digits		
Calibration	Typically stable for 12 months		
Analysis Time	2 minutes		
Sample Temperature	5-60°C (41-140°F)		
Ambient Temperature	5-40°C (41-104°F)		
Sample Pressure	N/A	100 psig	
Online Flow Rate	N/A	>50 mL/min (for online mode)	
Instrument Sample Flow Rate	0.5 mL/min		
Analyzer Specifications			
Inlet(s)	N/A	One stream, or 2-stream inlet (option)	One stream
Outputs	USB device port (1), USB host ports (2), Modbus TCP/IP	4-20 mA outputs (3); alarm outputs (4); binary input (1); USB device port (1), USB host ports (2); Modbus TCP/IP	
Display	7" WVGA 800x480 pixel, Color LCD w/ touch-screen		
Power	100 – 240 V~, 50 – 60 Hz, 100 VA		
Fuses	Replace with same type and size fuse: T 1.6 A 250 VAC Fuse (Slow Blow), size 5 x 20 mm appliance inlet		
Dimensions	H: 42.2 cm (16.6 in.); W: 24.6 cm (9.7 in); D: 40.0 cm (15.8 in)	H: 54.9 cm (21.6 in); W: 45.0 cm (17.7 in); D: 26.5 cm (10.4 in)	H: 39.5 cm (15.4); W: 22.9 cm (9.0 in); D: 46.4 cm (18.3 in)
Weight	10 kg (22 lb)	16.2 kg (35.6 lb)	9.8 kg (21.6 lb)
Enclosure Rating	N/A	IP-45	IP-21
Safety Certifications	ETL. CE		
Environment			
Maximum Relative Humidity	0 - 95%, non-condensing		
Maximum Altitude	3,000 m (9,800 ft)		
Pollution Degree	2		

Hg **The UV lamp inside this product contains mercury and must be recycled or disposed of in accordance with local, state, and federal laws.**

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