Now with Dual-Stream Capability!

GE Power & Water
Water & Process Technologies
Analytical Instruments

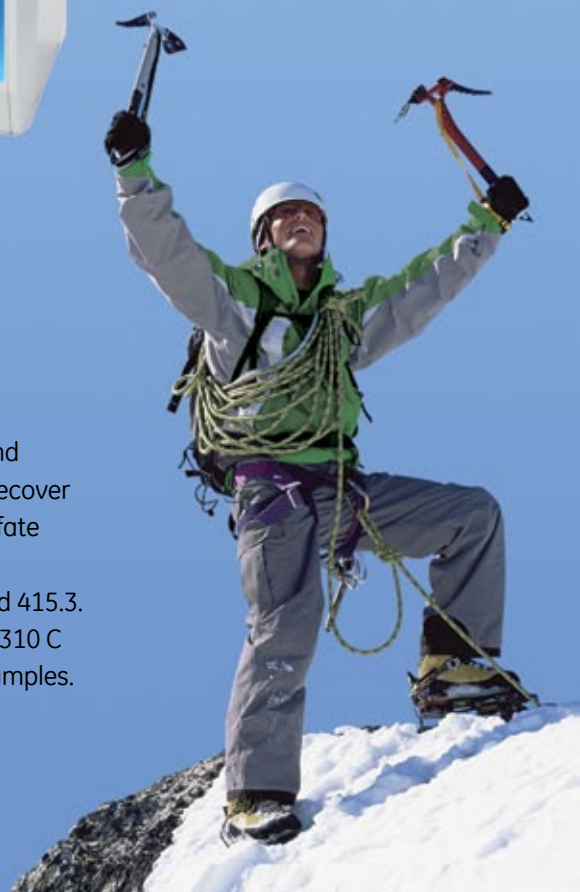
New! Sievers M5310 C TOC Analyzers

Reach the peak of productivity

Sievers Total Organic Carbon (TOC) Analyzers have always been quick to set up and easy to use and maintain. Providing twice-as-fast readings, the new M5310 C is smarter than ever. Designed to minimize operator intervention, the M5310 C offers cost-effective, time-efficient, reliable measurements—allowing you to reach the peak of productivity.

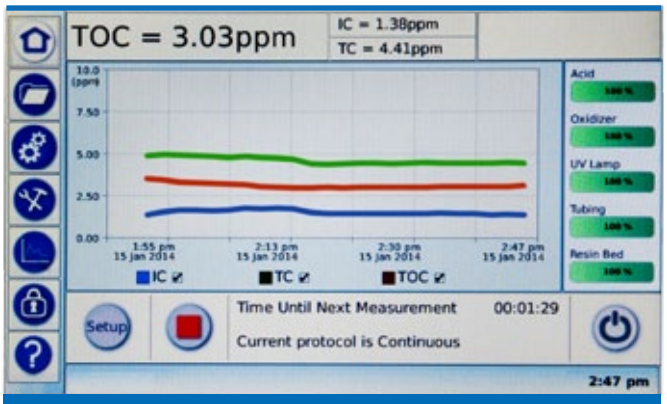
We've got you covered

For both raw and finished water monitoring, the M5310 C promises you peace of mind when measuring organics in your plant or distribution systems. M5310 C Analyzers recover difficult-to-oxidize organic compounds, such as humic acid, by combining UV/persulfate oxidation with the proven Sievers Membrane Conductometric Detection Technology, a USEPA-approved methodology under Standard Methods 5310 C and USEPA Method 415.3. Supporting Disinfectants and Disinfection Byproducts (DBP) Rule compliance, the M5310 C automatically calculates p*ercent TOC removal* for influent and effluent streams or samples.



Faster and smarter to optimize your water treatment process

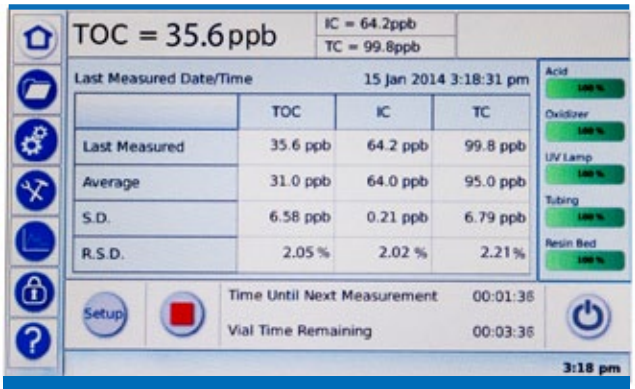
- Twice-as-fast as GE's last generation TOC, now with two-minute TOC analysis.
- Broad analytical range from 4 ppb to 50 ppm.
- USEPA Approved Analytical Method (SM 5310 C and USEPA 415.3).
- Improved dashboard-style, touch-screen interface simplifies operation and data review.
- At-a-glance consumable status.
- Streamlined, faster system protocols.
- Informative error and alert messages to simplify troubleshooting.
- Secure database structure improves data seach and query capability.
- An internal Inorganic Carbon Removal module is now standard on all models for improved accuracy when analyzing water high in inorganic carbon (IC).



M5310 C On-Line Analyzer Interface

Instinctively simple to boost your throughput

- Operations including calibration, verification, and sample analysis are faster and automated.
- Autoreagent feature automatically selects optimal reagent flow rates.
- Alphanumeric labeling for easy recall of Grab-Mode samples.



M5310 C Laboratory Analyzer Interface

Quick to set-up, easy to use and maintain

- Pre-calibrated at the factory so you can install and prepare for analysis in less than an hour.
- No special training is required to set up, operate, or maintain the instrument.
- Minimal maintenance—typically just a few hours per year.
- Modular design facilitates quick consumables replacement.
- On-line and portable models now with dust and spray/drip resistant enclosures.
- Internal reagent packs—no external chemicals or gas supplies required.
- Easy data communications - export or collect data via USB, 4-20 mA, or Modbus TCP/IP outputs.

Our innovative ***Membrane Conductometric Detection technology*** delivers unmatched stability, preventing significant drift over time. The recommended calibration for M5310 C is just once per year and can easily be conducted on-site. In contrast, TOC Analyzers that use non-dispersive infrared (NDIR) detection may require weekly or even daily calibration. To view an animated demonstration of our technology, visit our library at www.geinstruments.com/library.

Sievers Certified Plus

Protect your TOC analyzer investment with our Certified Plus genuine products and expert services. From start up, preventative maintenance and warranties, to after-market consumables such as reagent packs, standards and vials, Certified Plus ensures you have a reliable and accurate TOC measurement solution.

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. Our expertise in preparing and storing standards allows us to guarantee the accuracy and extended shelf life of Sievers Standards, even at low concentrations.

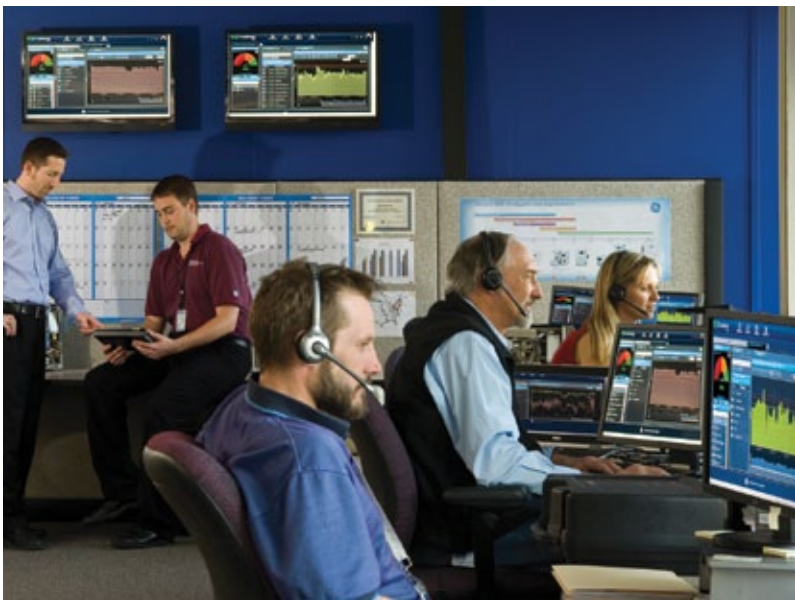
Comprehensive technical support

As the world's leading manufacturer of total organic carbon (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 on-site installation, maintenance, calibration, and training services.

Optional accessories and configurations

- **Two-Stream Inlet configuration** for the M5310 C On-Line Analyzer enables automatic sampling of two water sources. One stream can be dedicated to raw water and another to finished water for DBP Rule monitoring.
- The high-capacity **GE Autosampler** enables 24+ hours of unattended sample analysis (63 or 120 sample-position capacity).
- **DataPro2 software** integrates the Autosampler with the M5310 C Laboratory and Portable Analyzers, enabling time-saving features that maximize productivity and ensure easy TOC data management.
- Unique **Integrated On-Line Sampling (iOS)** allows you to introduce standards or grab samples without removing the instrument from the continuous sample source or changing the sample inlet configuration.
- **Pre-filter Kits** are available in normal- and heavy-use versions to ensure optimal instrument performance when measuring raw water samples on-line.

	Laboratory	Online	Portable
Autosampler/DataPro2	X		X
iOS		X	X
Pre-Filter Kits		X	X
Two-Stream Inlet		X	



Specification summary

	M5310 C Laboratory Analyzer	M5310 C On-Line Analyzer	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	On-line continuous or discrete grab sample, timed on-line, TOC removal on-line, TOC removal grab	On-line continuous, Autosampler, or discrete grab sample, timed on-line, TOC removal on-line, 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	
On-Line Flow Rate	n/a	>50 mL/min (for on-line mode)	
Instrument Sample Flow Rate	0.5 mL/min		
Analyzer Specifications			
On-Line Inlet(s)	n/a	One stream, or two-stream inlet (option)	One stream
Outputs	USB device port (1), USB host ports (3); 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	9.7 kg (21.4 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		

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Call or visit our website to schedule a demonstration and learn how Sievers M5310 C Analyzers can take you to the peak of productivity. www.geinstruments.com/M5310C

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