



Sievers* Instruments

Innovative analytical instrumentation and solutions for water monitoring, process control and compliance

Veolia's analytical instrumentation products help protect public health and the environment by assuring the quality of our most precious resource – water. We aim to:

- Create highly differentiated value
- Innovate meaningful solutions to critical customer problems
- Deliver an exceptional customer experience

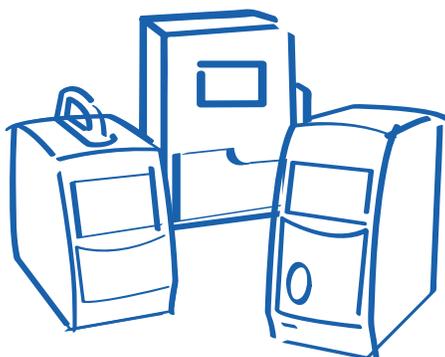
Why Measure TOC

The amount of organic carbon found in water, which can be an indicator of water quality or cleanliness, is called Total Organic Carbon, or TOC. TOC is often measured for treatment optimization, regulatory compliance, and process control. Removing organic contaminants from water helps to protect consumers, industries, and the environment.



About the Products

Sievers instruments has more than 30 patents for technical innovations, including a proprietary Membrane Conductometric detection method that provides unmatched analytical performance. Our instruments simplify and lean out processes. We help customers maximize productivity without sacrificing compliance, accuracy, or ease of use. Using Sievers TOC Analyzers to obtain measurements allows operators to make quick, data-driven treatment decisions.



Veolia

Paris, France

Employees

Over 150,000

Website

www.veolia.com

Presence

Over 450,000 industrial and business customers on 5 continents

Water Technologies & Solutions

Trevose, Pennsylvania, USA

Employees

Over 10,000

Website

www.watertechnologies.com/sievers

Presence

50,000 customers in 130 countries

50 global manufacturing sites

Where does TOC come from?

- Natural organic matter
- Dyes, colors, allergens
- Solvents, polluted condensate, resin leaching
- Reclaim and waste
- Personal care products
- Pharmaceutical substances
- Industrial effluents
- Taste and odor compounds
- Microbes and bacteria
- Hydrocarbon, oil, gas, chemical processing

Life Sciences

Compliant. Efficient. Accurate.

For the life sciences industry, Veolia offers unmatched performance and efficiency for TOC testing.

Whether you are testing for compendial compliance, non-compendial cleaning validation, or other applications, Sievers instruments help you meet regulations, lean out processes, and align with best practices.

Key Markets:

- Pharmaceutical
- Biopharmaceutical
- Medical devices
- Cosmetics & personal care



Types of Testing:

- Compendial water testing
- Real-time testing
- Simultaneous conductivity and TOC
- Leachables and extractables
- Cleaning validation (CV):
 - Method validation and continuous monitoring strategies
 - At-line and online CV

Industrial & Environmental

Source water. Process water. Wastewater.

Sievers TOC Analyzers provide our industrial and environmental customers with accurate carbon data that can be utilized to optimize processes, protect assets, and generate cost savings.

Key Markets:

- Water & wastewater
- Power generation
- Chemical processing
- Microelectronics
- Food & beverage
- Petrochemicals



Reasons for Testing:

- Removal of organic contaminants
- Minimize disinfection byproducts (DBPs)
- Control treatment processes
- Regulatory compliance
- Leak detection
- Monitor reuse/reclaim & source water

Data Integrity & Compliance

Our analyzers and software comply with 21 CFR Part 11 and meet or exceed current data integrity guidelines.

TOC analyzer spectrum

Veolia offers a variety of TOC analyzers enabling measurements from 0.03 ppb to 50,000 ppm.

Sievers Instruments History

- 1983 Sievers Instruments was formed by two colleagues from the University of Colorado.
- 1993 Development of Sievers' Membrane Conductometric technology.
- 1995 Sievers awarded contract to develop instrument for measuring TOC, pH, and conductivity in space.
- 1996 Acquired by Ionics, Inc.
- 2005 GE's Water & Process Technologies business acquired Ionics to expand water purification offerings.

- 2015 Opened Tatabanya, Hungary facility to better serve EMEA customers.
- 2017 SUEZ acquires GE's Water & Process Technologies business and forms SUEZ - Water Technologies & Solutions. Sievers instruments becomes one of SUEZ's new product brands.
- 2017 Achieved highest combined accreditation standard in the industry – ISO 17034 and ISO/SEC 17025 – for the production and testing of TOC and conductivity standards.
- 2022 Sievers Instruments become part of Veolia

Solutions

Veolia's Sievers Instruments:

- M9 / M5310 C TOC Analyzers
- 500 RL / 500 RLe TOC Analyzers
- InnovOx TOC Analyzer
- CheckPoint TOC Sensor
- Boron Analyzer

Certified Reference Materials:

- ISO/IEC 17025 & ISO 17034 Standards
- Traceability & Failure Analysis Reports
- Custom standards, made to order

Vials:

- Certified Low TOC Vials
- Dual Use Conductivity & TOC (DUCT) Vials
- Pre-acidified vials and more

Services:

- Qualification (IQ/OQ/PQ) Services
- Preventative Maintenance Service Contract
- Certified Plus Service Contract

Support:

- Global Technical Support
- Validation Support Packages
- Applications Lab: Recovery Studies and Method Development



Pictured: Boulder, Colorado employees.

Manufacturing Locations

Veolia Sievers Instruments are manufactured in Boulder, Colorado with other manufacturing locations in Tatabanya, Hungary; Wuxi, China; and Haskota, India.

www.watertechnologies.com/sievers

Resourcing the world

Veolia Water Technologies
Please contact us via:
www.veoliawatertechnologies.com