

1080 Total Organic Carbon Analyzer



Easily Analyze Difficult to Oxidize Samples



Total organic carbon (TOC) measurement is a well-established technique that provides valuable information about water quality for process control and regulatory compliance. Though high-temperature combustion TOC has been shown to be very effective for the analysis of samples that are of a high molecular weight or contain substantial amounts of salt or difficult-tooxidize organics (e.g, humic acid), these types of samples are problematic for combustion TOC analyzers. They can clog the instrument, cause catalyst poisoning, and shorten the injector life, leading to unreliable data, increased catalyst costs, and a significant amount of downtime for servicing the instrument.



With over 45 years of experience in designing TOC analyzers, OI Analytical brings game-changing technology to combustion TOC analysis for the accurate results you need with a low cost of ownership and unprecedented ease of use and maintenance. Engineered for unsurpassed reliability and simple operation, the Model 1080 Total Organic Carbon Analyzer handles even the most challenging applications without the need for expensive additional kits, modules or special options.



Test Methods Supported

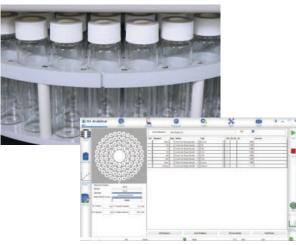
The high-temperature combustion technique has been approved and adopted in numerous regulatory compliance methods, standards, and norms for water quality testing.

Method USEPA 415.1 Standard Method 5310B USEPA 9060A **USEPA-DBPR** ISO 8245 EN 1484 ASTM D7573-09

Sample/Application **Drinking Water** Wastewater, Ground & Surface Waters Wastewater, Ground & Surface Waters Disinfection Byproduct Rule Drinking Water, Wastewater Surface & Ground Water, Potable Water

Designed for Performance & Simplicity





Engineered for Performance

High-temperature catalytic combustion oxidizes and converts the organic compounds present in aqueous samples to CO₂ for measurement by a solid-state, non-dispersive infrared (SS-NDIR) detector. Patent-pending technologies protect the catalyst, increase reliability, reduce maintenance and operating costs, and extend the life of the instrument.

Automation

The 1080 TOC also offers automatic sample acifidification and sparging. The automatic dilution function reduces sample salinity, acidity, and alkalinity, significantly extending the dynamic range.

Priority Samples on the Fly

With intuitive software features, priority samples can be added at any time without interrupting the operation of the instrument.

Increased Throughput

The Model 1088 Autosampler analyzes up to 88 samples unattended freeing the operator's time for other projects.

Compact

The autosampler was designed to fit beneath the 1080 TOC, conserving bench space.

Total Nitrogen

The 1080 TOC has also been designed to accommodate total nitrogen measurement, eliminating the need for dangerous high voltage components associated with ozone generation and scrubbers. OI Analytical's new design ensures that there is no interference from metallic ions or bromine in difficult to analyze samples like sea water.

Sewage Effluent
 Sea Water
 Ground Water / Surface Water

Superior Technology for Better Results

1080 High-Temperature Combustion TOC Analyzer

Our experienced team of chemists and engineers set out to design an instrument that would make TOC analysis easy and affordable. The new technology of the 1080 Combustion TOC Analyzer inspires confidence in results, lowers operating costs, and ensures reliability.

Ease of Operation

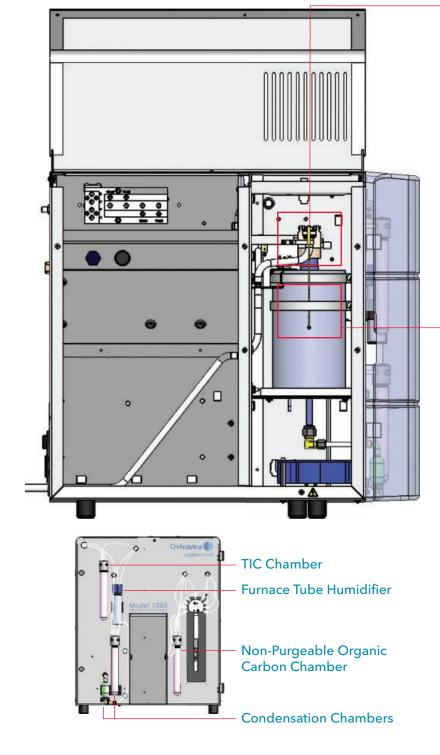
The 1080 TOC Analyzer was designed with the operator in mind. It has been carefully engineered to provide an intuitive workflow experience. You can view the instrument status at a glance from anywhere in the lab with the TruColour™ LED Indicator.

Low Cost of Ownership

OI Analytical's newly developed technologies are designed to keep the cost of ownership low by extending the life of the instrument and its components.

Serviceability

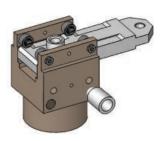
Critical components, such as the combustion tube, furnace and consumable parts, are quickly and easily accessed through a side panel making maintenance simple. When necessary, the catalyst can be packed in a matter of minutes to minimize instrument downtime.



Superior sample flexibility with no loss in precision

Large or small, sample size is no longer a problem! The new pulsed time injection® more accurately injects sample volumes for greater flexibility over a large range.

Reduce instrument downtime

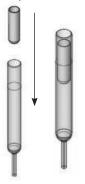


OI Analytical's Smart Slide Injector® significantly extends the life of the injector, reducing operating costs.

High sensitivity for difficult samples

A novel stop-flow process converts the sample to steam prior to detection for improved low-level sensitivity.

Non-Combustible salts? Not a problem!



Our specially designed Catalyst Guard® combustion reactor comes standard with the 1080 TOC, protecting the platinum catalyst for extended life and consistent oxidation conditions.

No need for expensive add-ons or options!

Compact design

The large reagent storage area accommodates the DI water container, as well as up to three 1-L containers for acidic reagents necessary for sample sparging. All containers are stored out of the way for added space savings, but conveniently located for easy access and service.

1080 TOC Features

Solid-State Non-Dispersive Infrared Detector (SS-NDIR)

Reduces interferences from other compounds for accurate and reproducible results

Electronic Pressure Control (EPC)

Utilized for critical flow adjustments

Easy Accessibility

Open architecture provides easy service access to critical components and reagents.

LIMS Connectivity

Measurement results can be easily transferred to Laboratory Information Management Systems

LIMS Connectivity

Measurement results can be output in CSV format to easily adapt to Laboratory Information Management Systems.

Video Tutorials

Reduce training time with quick access to OI Analytical knowledge base

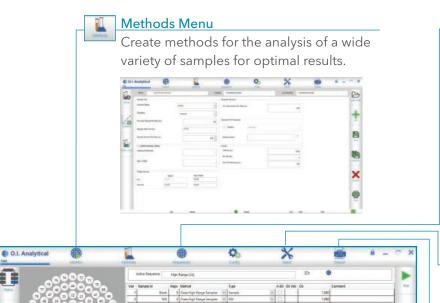
Intuitive Software

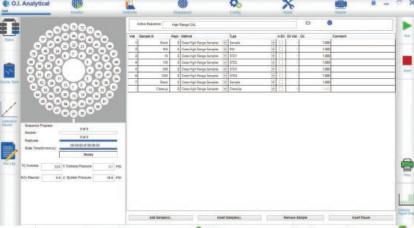
Simple, icon-driven interface and userfriendly functionality

Intuitive Software & Optional Accessories

TOC View Software Interface

The TOC View Software provides fully automated data collection, analysis, reporting, and storage in a LIMS environment using a logical, easy-to-follow layout.





Main (Monitor) Menu

Quickly and easily monitor sequence status and other important instrument parameters at a glance.



Calibration Menu

Quick and easy access to method calibration setup and results.



Sequences Menu

Easy to setup and priority samples can be added on the fly.



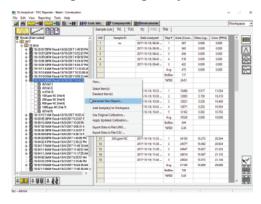
Maintenance Menu

Perform routine checks and tests at the touch of a button.

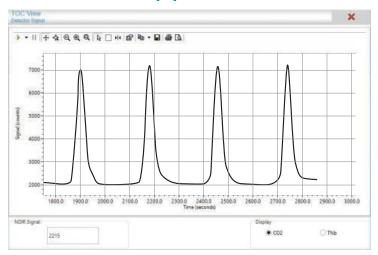


Reports Menu

Review results, generate customized reports, and export data to LIMS. TOC Reporter supports sample and customer ID Tracking of trending analysis.



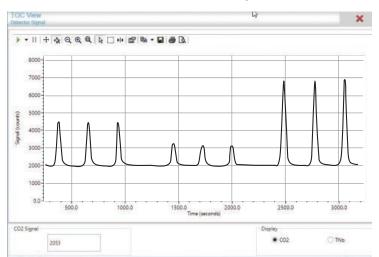
Sea Water Application Results



Measurement Method: Measurement Results:

NPOCi with sample acidification 10-ppm C in 3.5% NaCl matrix after 4700 injections

M Environmental Sample Results



Measurement Method:

TOC measurement (NPOC) with sample acidification and sparging

Measurement Results:

(L-R): Ground Water (1.02 mg/L; 1.0% RSD)

Filtered DI Water

(0.514 mg/L; 1.26% RSD)

Storm Run-Off

(1.66 mg/L; 0.62% RSD)

Optional Accessories

The 1080 TOC can be equipment with a number of instrument options and automation accessories to improve sample throughput and productivity.

88-position Rotary Autosampler

Model 1088 Rotary Autosampler is positioned below the TOC analyzer for convenient installation.

- Automated Dilution
- In-Situ Stirring
- 88 (40 mL) sample vials

Total Bound Nitrogen (TN_b)

The optional TN_b Nitrogen detector allows measurement of total bound (inorganic and organic) nitrogen (excluding N_2) in aqueous samples in tandem with TOC analysis.



Model 1080 Specifications

Method compliance USEPA, CEN, USP, EUP, ASTM, ISO, DIN, STD methods Measurement range (ppm) 50 ppb C – 2,000 ppm C Method TC 680 °C with platinum catalyst Method TC Acidification and sparging Method TC NPOC, combustion of TiC-free sample, TOC by subtraction (TC-TIC) Furnace temperature Adjustable, 680 °C in 1°C increments; 720 °C for TNb Measuring time From three minutes Oxidation technique High temperature catalytic oxidation, liquid samples Options available TN _b Reproducibility 3.0% Accuracy ±2% FS or 2% relative Sample injection and sample handling: automatic syringe with sliding TC furnace injector Sample injection volume 50 μ - 2.0 mL in 10 μL increments CF preteatment Available with autosampler CF preteations CE; EMC: Directive 2014/30/EU; Safety: LVD 2014/35/EU; RoHS: Directive 2011/65/EU Operation mode Controlled via PC software (Windows 7, 8, 10 PRO) Operating Interface Windows PC Software (included) Multi-instrument control via PC-based software; LIMS operation, data management, custom reports Operating System Windows * 7 (with Service Pack		
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custom reports Operating System Windows® 7 (with Service Pack 1 or higher), Windows® 8, 8.1 & 10 Yes Reagent purge Yes Reagents required Hydrochloric acid, rinse water Communications USB-to-RS422 communications cable (5m length) Input and output relays Two user-programmable inputs, two user-programmable outputs Ambient temperature range: 10 °C - 37 °C Operating humidity:	Operating interface	Windows PC
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Reagents required USB-to-RS422 communications cable (5m length) Input and output relays Ambient temperature range: Operating humidity: Power Requirements 115/230V AC, 50/60 Hz, 750VA max Benchspace with autosampler 14" W x 19"D (35.6cm W x 48.3 cm D) Gas type and grade Oxygen or Air, 99.995% (carbon dioxide and hydrocarbon free), 50-60 psig Dimensions 29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D) Weight 17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Operating System	Windows® 7 (with Service Pack 1 or higher), Windows® 8, 8.1 & 10
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Input and output relays Ambient temperature range: 10 °C - 37 °C Operating humidity: Power Requirements 115/230V AC, 50/60 Hz, 750VA max Benchspace with autosampler 14" W x 19"D (35.6cm W x 48.3 cm D) Gas type and grade Oxygen or Air, 99.995% (carbon dioxide and hydrocarbon free), 50-60 psig Dimensions 29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D) 17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Reagents required	Hydrochloric acid, rinse water
Ambient temperature range: 10 °C - 37 °C Operating humidity: Power Requirements 115/230V AC, 50/60 Hz, 750VA max Benchspace with autosampler 14" W x 19"D (35.6cm W x 48.3 cm D) Gas type and grade Oxygen or Air, 99.995% (carbon dioxide and hydrocarbon free), 50-60 psig Dimensions 29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D) 17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Communications	USB-to-RS422 communications cable (5m length)
Operating humidity:<90% noncondensingPower Requirements115/230V AC, 50/60 Hz, 750VA maxBenchspace with autosampler14" W x 19"D (35.6cm W x 48.3 cm D)Gas type and gradeOxygen or Air, 99.995% (carbon dioxide and hydrocarbon free), 50-60 psigDimensions29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D)Weight17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Input and output relays	Two user-programmable inputs, two user-programmable outputs
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Benchspace with autosampler 14" W x 19"D (35.6cm W x 48.3 cm D) Oxygen or Air, 99.995% (carbon dioxide and hydrocarbon free), 50-60 psig Dimensions 29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D) Weight 17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Operating humidity:	<90% noncondensing
Gas type and gradeOxygen or Air, 99.995% (carbon dioxide and hydrocarbon free), 50-60 psigDimensions29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D)Weight17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Power Requirements	115/230V AC, 50/60 Hz, 750VA max
Dimensions 29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D) Weight 17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Benchspace with autosampler	14" W x 19"D (35.6cm W x 48.3 cm D)
Weight 17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option	Gas type and grade	Oxygen or Air, 99.995% (carbon dioxide and hydrocarbon free), 50-60 psig
	Dimensions	29" H x 14" W x 19" D (74 cm H x 36 cm W x 48 cm D)
Warranty 12 months on parts and labor	Weight	17.5 kg (38.5 lbs), 37.5 kg (82.5 lbs) with autosampler option
	Warranty	12 months on parts and labor



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