

LOTIX

Automated High Temperature Combustion TOC Analyzer

- **NO** syringe drives or 7-port valves!
- Ability to run 0-20,000 ppm with a single 0.5 mL injection volume virtually eliminating the need for multiple calibration curves
- Totally **NEW** and highly sensitive flow through Non-Dispersive Infrared (NDIR) detector
- Easy to use software requiring < 1 minute to set up a calibration curve
- Simple design ensures virtually any component can be accessed in minutes, and with the furnace located in the front, combustion tube maintenance is a snap!
- Real time viewing of analytical data and printing of completed sample reports while instrument is running
- Easy scheduling of priority samples
- Ability to **EXPORT** to CSV or PDF and **IMPORT** from CSV files

TOC users from around the globe requested an instrument that meets the following criteria: simplicity, performance, and durability.

The Lotix TOC Combustion analyzer is designed to accurately measure carbon content in aqueous matrices down to the ppb level. It uses proven high temperature combustion, oxidation of carbon material into carbon dioxide, and detection using a new Non-Dispersive Infrared (NDIR) detector.

Lotix is the ultimate solution for waste water, surface water, ground water, sea water, and other hard to oxidize matrices with an economical price to fit any budget.



Lotix Specifications

Chemistry:	Oxidation by Combustion: From 680°C - 1000°C
TOC Detector:	Non-Dispersive Infrared (NDIR) Detector
TOC Analytical Modes:	TOC (NPOC), TC-IC, TC, IC
TOC Analytical:	<p>Concentration range 0-20,000 ppm without dilution using a single 0.5 mL sample injection. Higher concentrations achievable with dilution prior to analysis.</p> <p>Limit of Detection: 50 ppb</p> <p>Carryover: ≤ 1.0% Cross Contamination</p> <p>Sample Size: 0.5 mL</p> <p>Precision*: ≤2% RSD, typical of a mid-range standard.</p> <p>* Analytical performance is affected by laboratory water, reagent and gas purity, sample container cleanliness, sample matrix, gas regulator cleanliness, precision and operator skill.</p>
TOC Analysis Time:	13-15 minutes typical for triplicate TOC analysis
Carrier Gas Handling:	Integrated pressure regulator with in-line flow restrictors to maintain carrier gas at 200 mL/min
Liquid Handling:	<p>Pressurized sample delivery and liquid handling</p> <p>Solenoid actuated micro-pump precisely delivers acid for IC removal/analysis in 50µL increments +/-5%</p> <p>Self-cleaning sample handling process that cleans sample pathway before and after every sample</p>
Sample Introduction:	Integrated 30-position autosampler (conveyor style)
Controller:	PC, Interface through Windows™ 7 or greater
Data Handling:	<p>Reports exportable to CSV and PDF format</p> <p>Importing from CSV file</p> <p>Real time viewing and printing of analytical results while instrument is running</p> <p>Ability to store customized individual test methods</p> <p>Priority samples via schedule interrupt</p> <p>Outlier deletions and precision performance criteria controls</p>
Other Features:	<p>Pre-programmed point and click method set-up</p> <p>Instrument condition light</p> <p>Automatic and configurable standby mode</p> <p>Simple design ensures access to internal components in minutes</p> <p>Combustion tube can be accessed from the front of the instrument in minutes</p> <p>Autorinsing from sample and/or rinse water via built-in rinse station</p>
Principal Applications:	Waste Water, Industrial Waste Effluent, and Surface Water, Ground Water, Sea Water
Certification:	CE (CSA site certified if required)
TOC Utility Requirements:	Universal Voltage: 100/115/230 VAC (±10%), Frequency: 50/60 Hz, Power: 1150 VA
TOC Dimensions:	18.2" W (46.2cm) x 23.7" D (60.2cm) x 26.3" (66.8cm) H Weight 53 lbs (24 kg)
TOC Gas Supply:	Hydrocarbon and Carbon Dioxide (CO ₂) free air with TOC content <1 ppm or UHP O ₂ . Gas can be supplied from a cylinder or TOC gas generator. If a TOC gas generator is used, resulting gas must be hydrocarbon and water free. To assure clean carrier gas is used, we suggest employing a complete CO ₂ removal system and hydrocarbon trap between the gas source and analytical instrument.
TOC Gas Inlet Pressure:	50 to 100 psi

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