



Analytical[®]
Technologies Limited

TOC ANALYZER

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»» General

TOC (Total Organic Carbon), which directly shows the total organic content, is regarded as a key factor to evaluate pollution potentials of organic compound in water.

After 3 years research and development, ATL successfully launch our new product: TOC. With ATL patent laws, our TOC can meet requirements for application in water analysis, environment monitoring, pharmaceutical production, quality control, processing control etc.

So far, ATL launch 2 models TOC: TOC-2000 (Catalytic combustion oxidation) and TOC-3000 (Wet chemical oxidation by UV) which are widely used for quality control of drinking water, industrial water, sewage and waste water. Meanwhile, it has wide application in monitoring of River, Lake, Sea and surface water.

»» Features

- Signal management system with our own patent law which has great advantages of online setting, real-time monitoring, self testing and flow rate control to ensure high performance and safe operation.
- Low current system design also ensures operation safety.
- Different temperature setting for various samples ensures complete sample digestion so as to get more accurate measuring data.
- Adjust cooling module power according to sampling volume which improves drying performance to ensure dry gas into the detector.
- Automatic leak check system to avoid operation mistakes and improve instrument performance, so as to ensure operation safety and instrument's safety.
- Flow rate controlling system to avoid any effect caused by flow rate fluctuation which ensures accurate data.
- TOC detector with 24 bits data solution extends monitoring range. Controlling system with 32bin processing technology greatly improves performance.





Model	TOC-2000
Detector	NDIR
Parameters	TC, TIC, TOC
Digestion Mode	High Temperature Combustion
Operation Mode	PC Control
Application	Liquid Sample, Gas Sample, Solid Sample
Gas Requirement	Oxygen/Nitrogen ≥ 99.995%
Measurement Range	0-30000mg/l
Detection Limit	50ug/l
Repeatability	3%
Maximum Salinity	85g/l
Power	AC 220V,50Hz or AC 110V,60Hz
Size	430*455*440mm

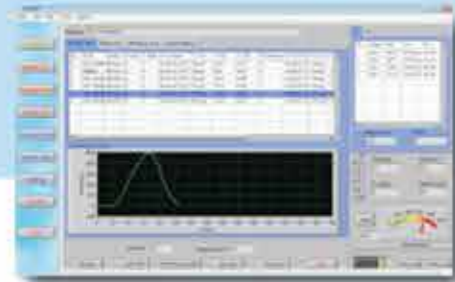


Model	TOC-3000
Detector	NDIR
Parameters	TC, TIC, TOC, NPOC
Digestion Mode	Wet chemical oxidation by UV
Operation Mode	PC Control
Application	Liquid Sample, Gas Sample
Gas Requirement	Nitrogen ≥ 99.995%
Measurement Range	0-10000mg/l
Detection Limit	5ug/l
Repeatability	3%
Maximum Salinity	85g/l
Power	AC 220V,50Hz or AC 110V,60Hz
Size	430*455*440mm



CONVENIENT SOFTWARE
OPERATION INTERFACE

SELECTED HIGH QUALITY
COMPONENTS



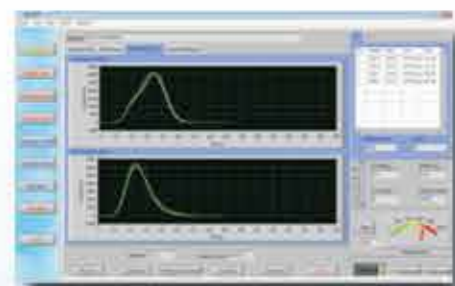
Sample measurement processing monitoring

- Set different Name, concentration and sample volume
- Real-time sample reaction
- On-line AVG and RSD calculation of testing results



Display and monitoring of sampling

- Sampling volume real-time monitoring
- Automatic sample draining monitoring
- Real time display and monitoring for heating, cooling and furnace temperature
- Auto Switch of Sampling and Draining
- Acidification operation by peristaltic pumps



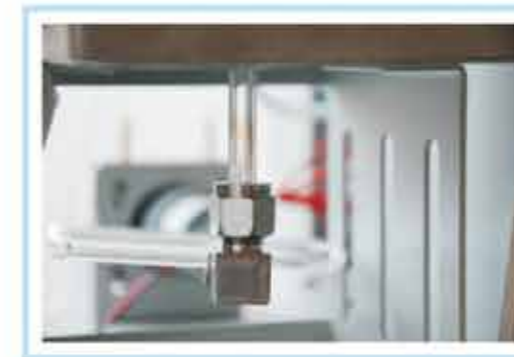
Scanning Curves

- Samples Curves shows in the same coordinate system for easy reading of repeatability



Parameter Setting Interface

- Settings for heating and cooling temperature; acidification sampling and draining time; Basic setting for Pump, valve and temperature control
- Press "TC" Clean, the system will automatically start drain-add Sodium persulfate-Draining-Sampling-Draining



DELICATE DESIGN

STABLE AND RELIABLE



Halogen Scrubber Design

- Remove Halogen and Moisture
- Avoid any effect on the results caused by impurities

Four In One TIC Reactor Design

- Helpful to remove inorganic carbon by acidification and heating digestion
- Cooling function to remove moisture in carbon dioxide
- Gas buffer design to avoid parts broken caused by high pressure
- High moisture removal function



High Temperature Pyrolysis system

- Complete pyrolysis for samples with high temperature
- Set different pyrolysis temperature for various samples

NDIR High Efficiency Detector

- Detector with special surface treatment technology to ensure ideal performance
- 24 bit A/D Converter to ensure stable data, low noise, wide measurement range and high speed
- 32bin signal processing technology to ensure the instrument's constant temperature function with 0.01 °C temperature tolerance.