

# TOTAL ORGANIC CARBON ANALYZER

## TOC ANALYZER 3000 SERIES



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

**01**

## ➔ FEATURES

- Signal management system with our own patent law which has great advantages of online setting, real-time monitoring, self-testing 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, outstanding particle handling capability and capable to handle small sample volumes.
- 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.
- Precise detection of CO<sub>2</sub> by high quality Non dispersive infrared detector (NDIR) detector, equipped with a pulsed, corrosion free cell, encapsulated optics, high power IR radiation source and high sensitive micro detector.
- Flow rate controlling system to avoid any effect caused by flow rate fluctuation which ensures accurate data.
- TOC detector the 24 bits data solution extends monitoring range. Controlling system with 32bin processing greatly improves performance.
- The System offers simultaneous determination of TOC and TNb with a single injection and using same catalyst.





## ➔ GENERAL

- TOC (Total Organic Carbon), which directly shows the total organic content is regarded as a key factor to evaluate the pollution potential of organic compound in water.
- After 3 years research and development, successfully launch our new product: patent laws, our TOC can meet requirements for application in water analysis, environment monitoring, pharmaceutical production, quality control, processing control, etc.
- So far launch 2 models TOC-3200 (Catalytic combustion oxidation) and TOC-3300 (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.

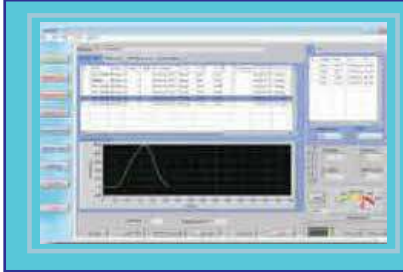


- Model: TOC - 3200
- Detector: NDIR
- Parameter: TC, TIC, TOC, NPOC, POC
- Digestion Mode: High Temperature combustion (950° C)
- Operation Mode: PC control
- Application: Liquid sample, Gas sample, Solid Sample
- Gas Requirement: Oxygen /Nitrogen ≥99.995%
- Measurement Range: 50 µg/l -30,000mg/l
- Detection Limit: 50 µg/l
- Repeatability: 3%
- Accuracy: 2%
- Maximum salinity: 85g/l
- Power: AC 220V,50Hz OR AC 110V,60Hz
- Size: 430×455×440mm



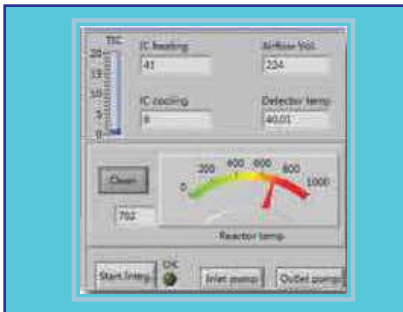
- Model: TOC - 3300
- Detector: NDIR
- Parameter: TC, TIC, TOC, NPOC
- Digestion Mode: Wet chemical oxidation by UV
- Operation Mode: PC control
- Application: Liquid sample, Gas sample
- Gas Requirement: Nitrogen ≥99.995%
- Measurement Range: 0-10,000mg/l
- Detection Limit: 5 µg/l
- Repeatability: 3%
- Maximum salinity: 85g/l
- Power: AC 220V,50Hz OR AC 110V,60Hz
- Size: 430×455×440mm

## ➔ CONVENIENT SOFTWARE OPERATION INTERFACE



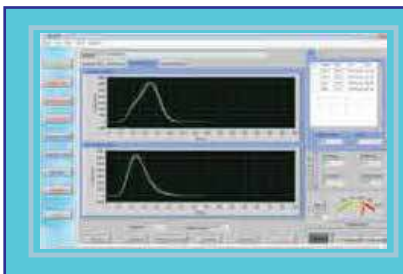
### Sample measurement processing monitoring

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



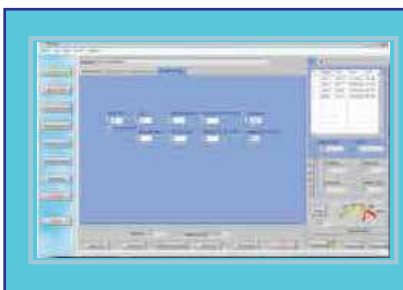
### Display and monitoring of sampling

- 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

➔ **SELECT HIGH QUALITY COMPONENTS**



➔ 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 sample with high temperature
- Set different pyrolysis temperature for various sample

### 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
- 32 bin signal processing technology to ensure the instrument's constant temperature function with 0.01°C temperature tolerance



➔ **HPLC SERVICING, VALIDATION, TRAININGS AND PREVENTIVE MAINTENANCE :**

- HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.
- AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
- Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA norms.
- Instruments :Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



➔ **ABOUT ANALYTICAL TECHNOLOGIES**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

➔ **OUR PRODUCTS & TECHNOLOGIES**

						
UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
						
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins&clinical chemistry	Semen Analyzer	Water purification system

➔ **REGULATORY COMPLIANCES**



➔ **CORPORATE SOCIAL RESPONSIBILITY**

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



# Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

➔ **REACH US @**



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