



TOC ANALYZER

TOC ANALYZER

TOC analyzer directly shows the total organic carbon content in water or liquid solutions. It is designed to make testing easier, reproducible and accurate. TOC analyzers maximize both sensitivity and productivity, making them the ideal choice for monitoring in wide range of aqueous samples.

Used in Water for injection, Cleaning validation, Environmental, Chemical, Pharmaceutical Industries, Research, Laboratory.

Also known as Laboratory TOC Analyzer, Total Organic Carbon Analyzer.

600 TOC ANALYZER



Automatic sample introduction with enter of trace sample, we can control the value of the trace sample. No contamination will occur during testing which will be harmful to human being and environment.

It adopts UV Catalytic oxidation during which there is no need to add acid, gas or catalytic with low lost of routine maintenance cost.

7 inches touch screen with operation panel, which is easy to operate and maintain.

The system is set with password for protection which is in compliance with FDA-21 CFR Part11 requirements. Also, it is in compliance with USP32-643 requirements.

Automatic alarm when the value is beyond maximum setting value to protect the instrument and to avoid any incorrect operation.

Auto sampler is optional which can be used for testing various different samples without person.

Special designed for testing water less than 1.5 ppm. Online and office testing function can be easily switched.

8GB mass storage memory which does not restrict date and time.

Less than 3 minutes for each analysis.

Clear historical records which is traceable according to analysis date.

Data for specific whole day can be derived and saved to USB directly.

Equipped with Bluetooth printer which is easy to operate and print quickly.

Modular design ensures quick installation and easy maintenance.

Optional online monitoring device meets different requirements.

SPECIFICATIONS

Model	BANA-601	BANA-602
Detection limit	1 ppb	
Max Tolerance	±5%	
Analysis Time	3 min	
Response Time	within 10 min	
Sample Temperature	1-95°C	
Sample flow speed	3 ml/min	
Relative humidity	≤85%	
Drifiting	±5%	
Repeatability tolerance	≤3%	
Working Environment	10-40°C with temperature change ±5°C/d	
Dimension	440x220x300 mm	
Power	100 W	
Power Supply	220/110 V ±10%	
Frequency	50 Hz +1 Hz	

Detector range	-	0.001-1.500 mg/L (ppm)
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BANA-601



BANA-602

600 TOC ANALYZER



TOC detector with 24 bits data solution extends monitoring range. Controlling system with 32bin processing technology greatly improves performance.

Signal management system of our own patent law which has great advantages of online setting, real-time monitoring, self-testing and flow speed controlling ensure high performance and safe operation.

Weak current system design ensures operation safety.

Compact design for TOC saves bench top space and also makes TOC an ideal choice for laboratory.

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.

SPECIFICATIONS

Model	BANA-603	BANA-604
Detector	NDIR	
Detection limit	50 µg/l (ppb)	
Parameters	TC, TIC, TOC, NPOC	
Method	High Temperature Combustion	Wet Chemical Oxidation by UV
Operation	PC Control	
Gas Requirement	Oxygen/Nitrogen ≥ 99.995%	
Measurement Range	0-30000 mg/l (ppm)	0-10000 mg/l (ppm)
Repeatability	3%	
Maximum Salinity	85 g/l	
Power	200 W	
Power Supply	AC 220 V or AC 110 V	
Frequency	50/60 Hz	



BANA-605 AUTOSAMPLER FOR TOC ANALYZER

Compact design, easy to put on bench top.

Easy to use, no need for special training.

20 positions auto sampling which saves time.

Adopts USB to connect with PC.

Connect with TOC to realize auto-sampling.

Equipped with Multi-sensors for real-time monitoring to ensure instrument safety.

Run for long time with good stability, no need for special maintenance.

Compatible with model AT121 and AT122.

SPECIFICATIONS

Model	BANA-605
Sample Position	20
Sample Volume	30/60 ml
Interface	USB
Output	120 W
Power Supply	100~240 V
Frequency	50/60 Hz

BANA-606 TOC ANALYZER



High-performance processor, ensuring stable and reliable system running.

Imported NDIR detector, guaranteeing higher sensitivity and stability.

PID temperature controlling technology, reaching higher accuracy.

Unique three-stage dehydration technology improves drying efficiency.

Automatic sample dilution, acid-adding and purging.

Multi-functional PC software.

SPECIFICATIONS

Model	BANA-606
Detector	NDIR
Method	High Temperature Combustion
Parameters	TC, TIC, TOC, NPOC
Gas Requirement	Oxygen ≥99.995%
Measurement Range	0-30000mg/L
Operation	PC software controlled
Application	Liquid sample

Power Supply	AC 220 V or AC 110 V, 50/60Hz, 1KW
Dimension	450x500x480 mm

BANA-607 AUTOSAMPLER FOR TOC ANALYZER



Compact design, only occupy little space.
 20 positions, meet most of experiment needs.
 Easy to operate, no need special operation training.
 Equipped with USB port for PC connection.
 Equipped with multi-sensors for real-time monitoring which ensures precision positioning and operation safety.
 No need special calibration or maintenance after long time use.

SPECIFICATIONS

Model	BANA-607
Sample Bottle Volume	60ml
Maximum Number	19
Injection Arm Stroke	85 mm
Ambient Temperature	0-40 °C
Relative Humidity	≤85%
Rated Power	120W
Power Adapter	AC 100-240V, 50/60HZ
Dimension	265x373x395 mm

BANA-608-A TOC ANALYZER



Auto sample dilution, auto acid-adding and auto gas purging (BANA-608-A)
 680°C catalytic oxidation technology with platinum catalyst, especially for seawater test
 NDIR detector, high sensitivity and stability
 Optional autosampler
 Multi-functional PC software
 Precise gas flow control technology improves accuracy
 PID temperature controlling technology, ensure higher accuracy
 Unique three-stage dehydration technology improves drying efficiency
 Personalized standard curve management provides great convenience for users
 Consumables management reminds users to replace consumables in time
 Modular design, simplifying device operation and maintenance

SPECIFICATIONS

Model	BANA-608-A
Measurement Method	High Temperature Catalytic Combustion

Detector	NDIR
Analysis Parameter	TC, TIC, TOC , NPOC
Control Mode	PC software controlled
Gas Requirement	Oxygen, purity $\geq 99.995\%$
Sample Type	Liquid sample (BANA-607 is optional)
Measurement Range	0-1000 mg/L, can extend to 0-100,000 mg/L (Manually dilution)
Limit of Detection	TC: 50 $\mu\text{g/L}$
Measuring Time	TC: around 4 min
Max. Permissible Error	TOC: $\pm 5\%$
Repeatability	$\leq 3\%$
Injection Volume	TC: 100-500 μL
Power Supply	AC110/220 V, 50/60 Hz, 700 W

BANA-608-B TOC ANALYZER



Auto sample dilution, auto acid-adding and auto gas purging (BANA-608-B)
 680°C catalytic oxidation technology with platinum catalyst, especially for seawater test
 NDIR detector, high sensitivity and stability
 Optional autosampler
 Multi-functional PC software
 Precise gas flow control technology improves accuracy
 PID temperature controlling technology, ensure higher accuracy
 Unique three-stage dehydration technology improves drying efficiency
 Personalized standard curve management provides great convenience for users
 Consumables management reminds users to replace consumables in time
 Modular design, simplifying device operation and maintenance

SPECIFICATIONS

Model	BANA-608-B
Measurement Method	High Temperature Catalytic Combustion
Detector	NDIR
Analysis Parameter	TC, TIC, TOC , NPOC
Control Mode	PC software controlled
Gas Requirement	Oxygen, purity $\geq 99.995\%$
Sample Type	Solid sample (BANA-609 is needed)
Measurement Range	0-1000 mg/L, can extend to 0-100,000 mg/L (Automatically dilution)
Limit of Detection	IC: 20 $\mu\text{g/L}$
Measuring Time	IC: around 3 min
Max. Permissible Error	IC: $\pm 4\%$
Repeatability	$\leq 3\%$
Injection Volume	IC: 100-2000 μL
Power Supply	AC110/220 V, 50/60 Hz, 700 W

BANA-609 AUTOSAMPLER FOR TOC ANALYZER



Compact design, only occupy little space
20 positions, meet most of experiment needs
Easy to operate, no need special operation training
Equipped with USB port for PC connection
Equipped with multi-sensors for real-time monitoring which ensures precision positioning and operation safety
No need special calibration or maintenance after long time use

SPECIFICATIONS

Model	BANA-609
Sample Type	Solid or Suspension liquid sample
Control Mode	PC software controlled
Analysis Parameter	TC, TIC, TOC (TC-IC)
TC Measurement Method	High temperature catalytic combustion (900 °C, Max. 1000 °C)
TIC Measurement Method	Acidification at 200°C
Sample Carrier	Quartz boat
Gas Requirement	Oxygen, purity ≥99.995 % (TOC analyzer provides) Flow rate: 500 mL/min
Measurement Range	0.1-30.0 mg
Max. Sample Volume	Solid: 1.0 g TC liquid: 0.5 mL IC liquid: 0.3 mL
Measurement Time	5-8 min
Power Supply	AC100-240 V, 50/60 Hz, 1000 W



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