

TOC Analyzer



Industry
Life science
Petrochemical & Energy
Biofermentation & Biopharma



Optional Accessories

AL-20 Autosampler



Technical Specification

Model	AL-20
Sample Type	Liquid sample
Max. Number of Samples	19 sample positions an 1 cleaning position
Volume of Sample Bottle	60mL
Ambient Temperature	0-40 °C
Relative Humidity	≤85%
Power	AC100-240V, 50/60 Hz, 120W

AS-T200 Autosampler



Technical Specification

Model	AS-T200
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: 500mL/min
Measurement Range	0.1-30.0mg
Max. Sample Volume	Solid: 1.0g TC liquid: 0.5mL IC liquid: 0.3mL
Measurement Time	5-8min
Power	AC100-240V, 50/60 Hz, 1000W

INTOC-5/INTOC-7 (Online)

Total Organic Carbon Analyzer



Features

- Ideal choice to measure Microelectronics Water, Purified Water, Ultra Pure Water and Water For Injection, etc.
- Smart 7 inches touch screen with user-friendly UI, easy to operate and read data.
- UV Oxidation by UV Lamp, no need to add acid, gas or catalyst, greatly reduced experiment cost.
- Equipped with sensitive conductivity detector to quantify TOC concentration accurately.
- Online mode to realize real-time monitoring (INTOC-7).
- One button sampling, less sample contamination, no harm on operator and environment.
- Optional PC software, comply with FDA 21 CFR Part 11 requirements and USP, EP, ChP and JP.
- Optional 20-position autosampler.
- 8GB large storage capacity, no restriction of data and time.
- All historical records can be traced by searching test date.
- Data can be retrieved and saved to USB disk directly.
- Equipped with Bluetooth printer for quick data printing.
- Modular design for quick installation and easy maintenance.

Technical Specification

Model	INTOC-5	INTOC-7(online)
Measurement Range	1-1500ppb	
Detection Limit	1ppb	
Max Tolerance	±5%	
Analysis Time	3 min	
Response Time	within 10 min	
Sample Flow Speed	2mL/min	
Repeatability Tolerance	≤ 3%	
Power Requirement	AC110/220V, 50/60Hz, 100W	

INTOC-3

Total Organic Carbon Analyzer



Features

- NDIR detector, high sensitivity and stability.
- Automatic leakage detection system not only avoids the misoperation, but also improves device performance and safety.
- Optional autosampler.
- Multi-functional PC software.
- Precise gas flow control technology improves accuracy.
- Modular design, simplifying device operation and maintenance.

Technical Specification

Model	INTOC-3
Measurement Method	Wet Chemical Oxidation by UV
Detector	NDIR
Analysis Parameter	TC, TIC, TOC, NPOC
Control Mode	PC Control
Gas Requirement	Nitrogen, purity ≥99.995%
Sample Type	Liquid Sample
Measurement Range	0-10000mg/L (ppm)
Detection Limit	5µg/L (ppb)
Repeatability	3%
Maximum Salinity	85g/L
Power Requirement	AC110/220V, 50/60Hz, 200W

INTOC-9 RN/RD

Total Organic Carbon Analyzer



Features

- Auto sample dilution, auto acid-adding and auto gas purging (INTOC-9RD).
- 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.

Technical Specification

Model	INTOC-9 RN	INTOC-9RD
Measurement Method	High Temperature Catalytic Combustion	
Detector	NDIR	
Analysis Parameter	TC, TIC, TOC , NPOC	
Control Mode	PC software controlled	
Gas Requirement	Oxygen, purity ≥99.995%	
Sample Type	Liquid sample (AS-W20 is optional.)	Solid sample (AS-S200 is needed.)
Measurement Range	0-1000mg/L, can extend to 0-100,000mg/L (Manually dilution)	0-1000mg/L, can extend to 0-100,000mg/L (Automatically dilution)
Limit of Detection	TC: 50µg/L	IC: 20µg/L
Measuring Time	TC: around 4min	IC: around 3min
Max. Permissible Error	TOC: ± 5%	IC: ± 4%
Repeatability	≤3%	
Injection Volume	TC: 100-500µL	IC: 100-2000µL
Power Requirement	AC110/220V, 50/60Hz, 700W	



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