OPTOSKY
Spectroscopy Solutions

Datasheet

Total Organic Carbon Analyzer | TOC-2000

Features

● Equipped with national patented signal management system to realize accurate online setting, real-time monitoring, self-testing and flow speed controlling, also ensures perfect device performance and experiment safety.

● Low current system design highly ensures the safety of operators.

● Temperature can be set according to different samples which ensures complete sample digestion.

● The power of cooling module can be set according to sampling volume which improves drying performance, also prohibits wet gas damaging the NDIR detector.

● Automatic leakage checking system not only avoids misoperation, also improves device performance and operation safety.

● Flow rate controlling system avoids the influence of flow rate fluctuation which ensures more accurate data.

● Modular design, simplifying device operation and maintenance.

● 680℃ catalytic oxidation technology with Platinum catalyst, especially for seawater test.

● Extremely wide measurement range, from 0 to 30,000mg/L, applicable to everything from ultrapure water to highly contaminated water.

● Unique liquid path and flow control system extend the service life of catalyst.

● Unique three-stage dehydration technology improves drying efficiency.

● Multi-functional PC software.

● Can be equipped with an auto sampler to improve sample detection efficiency.

Description

TOC-2000 is a total organic carbon measuring instrument which is used for water quality monitoring. TOC analysers are equipped with precision NDIR detector to quantity TOC content which ensures highly accurate test results. TOC-2000 adopts high temperature combustion method, mainly tests waste water, industrial water, sewage water, surface water, etc. It's able to efficiently oxidize not only easily-decompose insoluble and macromolecular organic compounds.

Application

- Quality control. Water supply equipment, electronic components, aluminum foil, raw materials.
- Water Quality control. Tap water, ultrapure water, effluent(treated/untreated), pool water, spa water, boiler water, and water from industrial processes.
- Process control. Effluent treatment process control, processes, ultrapure water recycling and re-purification processes.
- Pharmaceutical manufacturing. Pharmaceutical water control, evaluation of cleaning effectiveness.
- Investigations and experimental research. Global environment and eutrophication, river water, lakes and mashes, underground water, sea water, soil, sludge, sediments, etc.

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Model		TOC-2000
Detector		NDIR
Measurement items		TC, TIC, TOC, NPOC
Digestion Mode		High Temperature Combustion
Operation Mode		PC Control
Application		Liquid Sample
Gas Requirement		Oxygen ≥ 99.995%
Measurement Range		0-30000mg/l (ppm)
Detection Limit		50μg/l (ppb)
Repeatability		3%
Maximum Salinity		85g/l
Power		AC220V, 50Hz or AC110V, 60HZ, 200W
Size		430*455*440mm
Display and operation		Only can work by computer ,without LCD screen
Recommended PC Specifications	OS	Windows 7 Professional (32/64 bit version) Windows 10 Professional (32/64 bit version)
	CPU	3.0 GHz min.
	Memory	4 GB min.
	Other	DVD drive, USB terminals
Software functions		Addition of samples during continuous measurement, creation of schedule files, input/output of text files, accuracy control function, runtime report output, integrates all information into a database, user management applicable to various roles, backup and restore, integrated management through a network with other analytical instruments in the laboratory, report set function

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Accessories	AS-D20	AS-W20
Maximum number of samples	19	
Sample bottle volume	30mL	60mL
Sample Sparging	Possible (The optional external sparging kit is required)	
Power adapter	AC 100-240V, 50/60HZ	
Rated power	120W	
Ambient temperature	0-40℃	
Relative humidity	≤85%	
Size	265*373*395 mm	
Injection arm stroke	85mm	

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