

BioTector B7000i Online TOC Analyzer

The ideal online TOC Analyzer to achieve precise results even for your most challenging applications

A patented self-cleaning oxidation technology enables the B7000i analyzer to easily handle difficult samples and significantly reduce the maintenance schedule and costs associated with traditional on-line measurement. This TOC analyzer eliminates build up issues from salts, particulates, fats, oils and greases that lead to drift and high maintenance.

With reliable, continuous environmental monitoring and real-time process control, BioTector analyzers allow plants to optimize processes and reduce product loss.



Worry-free TOC with smart design

The B7000i comes with a built in self-cleaning sample line and reactor. This enables the B7000i to deliver trustworthy results even if your water contains high levels of fats, oils, greases, sludge and particulates or has pH swings.

Easy handling

All B7000i come with unique oversized tubing which eliminated the need for filtration and you can be sure to have a fully representative sample. The special tubing also prevents clogging as well as sample contamination.

Superior reliability

Using BioTector's internationally proven and patented Two Stage Advanced Oxidation technology the B7000i delivers maximum reliability, accuracy and availability with a MCert certified uptime of 99.86%. In addition no calibration or maintenance is required between 6-month service intervals.

Flexible field of application

Depending on the type of application, the instrument can operate across a very wide measuring range. The B7000i analyzer also has multistreaming capabilities with up to 6 process streams possible. Additionally, it can be adapted for indoor or outdoor use.

Low cost of ownership

Installing a B7000i provides cost savings through optimizing processes by decreasing chemical dosing, waste reduction, reducing samples processes and lowering overall plant operation costs.

Technical Data*

Parameter	TOC, TIC, TC, VOC, after correlation COD, BOD, TOG
Measurement Method	Infrared measurement of CO ₂ after oxidation (DIN EN 1484:1997-08, ISO 8245:1999-03, EPA 415.1)
Oxidation Method	Patented Two-Stage Advanced Oxidation Process using Hydroxyl Radicals.
Range	0 - 20000 mg/L C
Cycle Time	From 6.5 minutes, depending on range and application
Permissible Chloride Range	Up to 30%
Communication	Modbus RTU, Modbus TCP/IP & Profibus (when the Profibus option is selected, the digital output signals are sent through the Profibus converter with its specific communication protocol) Except for Zone 1 certification then Modbus RTU, Modbus TCP/IP & Modbus TCP/IP Redundant is available
EExp / Hazardous Location	Certification options are available to European Standards, (ATEX Zone 1, Zone 2), North American Standards (Class I Division 2) and IECEx Zone 1
Sample Inlet Temperature	2 - 60 °C (36 - 140 °F)
Particle Size	Up to 2 mm, soft particulates
Power Requirements	115 - 230 VAC; 50/60 Hz
Service Interval	6 months service intervals
Dimensions (H x W x D)	1250 x 750 x 320 mm (49.2 x 29.5 x 12.6 in.) 90 - 120 kg (198.4 - 264.6 lb)
Weight	Enclosure weight may change depending on system optional features.

*Subject to change without notice.

Order Information

Instruments

B7AAAA052AABAA2 Hach BioTector B7000i Online TOC analyzer, 0 - 10000 mg/L C, 1 channel, 115 V AC

B7ABAA052AABAA2 Hach BioTector B7000i Online TOC analyzer, 0 - 20000 mg/L C, 1 channel, 115 V AC

There are additional options available. Please contact Hach for more details.

Accessories

19-COM-160 BioTector Compressor 115 V / 60 Hz

19-COM-250 BioTector Compressor 230 V / 50 Hz

10-SMC-001 Air supply filter pack

19-KIT-131 B7000i 6 month service kit

Reagents

25255061 BioTector acid reagent 1.8 N sulfuric acid containing 80 mg/L Mn

2985562 BioTector base reagent 1.2 N sodium hydroxide

Part numbers may vary by country.

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