



Be Right™



## Hach BioTector B7000i Online TOC Analyser, 0 - 10000 mg/L C, 1 channel, 230 V AC

Product #: B7BAAA052AABAA2

SGD Price: Contact Hach

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

Hach BioTector TOC analysers provide maximum uptime and reliability due to an innovative self-cleaning oxidation technology that easily handles difficult samples and significantly reduces maintenance. Unlike traditional TOC analysers, the BioTector eliminates build up issues from salts, particulates, fats, oils and greases that lead to drift and high maintenance. With reliable, continuous monitoring and real-time process control, plant operators can optimise their processes to lower overall plant operating costs. The most advanced system in its class, BioTector products achieve precise results from the simplest to the most demanding applications.

With unique two-stage advanced oxidation technology, the BioTector handles even the most challenging applications involving fats, oils, greases, salts, sludge, and particulates. Oversized tubing eliminates filtration and sample contamination. There's minimal maintenance. No calibration or operator intervention required between service intervals. Provides a quick pay back with cost savings in chemical dosing, waste reduction and optimised processes.

Many additional versions available on request.

#### 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 innovative 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 analyser 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 optimising processes by decreasing chemical dosing, waste reduction, reducing samples processes and lowering overall plant operation costs.

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### Specifications

Ambient Temperature:

5 - 40 °C

Air conditioning and heating options are available.

Analyzer Options:	None
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
Cycle Time:	From 6.5 minutes, depending on range and application
Data Storage:	Previous 9999 analysis data on screen in the microcontroller memory and storage of data archive for the lifetime of the analyser in the SD/MMC card.
	Previous 99 fault data on screen in the microcontroller memory and storage of fault data archive for the lifetime of the analyser in the SD/MMC card.
Digital outputs:	3 freely programmable system relays
Display:	High contrast 40 character x 16 line backlit LCD with CFL backlight
Drain Pressure:	Typically ambient (for applications with high drain pressure, optional systems are 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
Enclosure Rating:	IP44; optional IP54 with air purge
Expected Measuring Range:	standard range < 5000 mg/l
Humidity:	5 - 85 % (non-condensing)
Languages:	English
Lower Limit of Detection (LOD):	0.06 mg/L C
Measurement method:	Infrared measurement of CO <sub>2</sub> after oxidation (DIN EN 1484:1997-08, ISO 8245:1999-03, EPA 415.1)
Multi-Stream:	1, 2, 4 and 6 streams
Number of Channels:	1
Output:	1 programmable 4-20 mA analog output signal channel fitted as standard
Oxidation Method:	Innovative Two-Stage Advanced Oxidation Process (TSAO) using Hydroxyl Radicals
Parameter:	TOC, TIC, TC, VOC, after correlation COD, BOD, TOG
Particle Size:	Up to 2 mm, soft particulates
Permissible Chloride Range:	Up to 30 %
Power requirements (Hz):	50 Hz
Power requirements (Voltage):	230 V AC
Power supply:	TOC/TIC (230VAC)
Range:	0 - 10000 mg/L C
Range selection:	Automatic or Manual Range Selection
Repeatability:	±3 % of reading or ±0.3 mg/L C, whichever is greater, with Automatic Range Selection
Required Relay Outputs:	3 Output Relais (Standard)
Response Time:	TOC 6.5 minutes
Sample Inlet Temperature:	2 - 60 °C
Sample Volume:	Up to 8.0 mL
Service Interval:	6 months service intervals
User Interface:	Microcontroller with membrane keyboard
Weight:	90 - 120 kg

Enclosure weight may change depending on system optional features.

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## What's in the box?

Includes: B7000i analyser, Tubing, Fuses, Ferrules, Drain, Acid & Base Dip Tubes, CO<sub>2</sub> Filter & B7000i User Manual