

PRODUCT DATASHEET

QuickTOCeco™

ONLINE TOC ANALYZER

Accurate monitoring of processwater, cooling water,
and municipal wastewater



Superior Reliability

Fast and Precise

Maximize Profits

- Cooling Water
- Pure Water
- Municipal Wastewater

QuickTOCeco – economic online water measurements!

QuickTOCeco™ is the latest online TOC analyzer for the fast and precise determination of total carbon (TC) and total organic carbon (TOC) in pure water and municipal wastewater. After correlation, even the biological oxygen demand (BOD) and the chemical oxygen demand (COD) can be determined in the same device. The water sample is completely oxidized at a proven 1,200 °C oxidation method. The process control has been optimized for high performance. The measurement system is controlled by a user-friendly 4" PLC with touch screen.

Applications

The total organic carbon analyzer is suitable for a variety of applications and types of water such as pure, drinking, surface, process and cooling water.

- Pure Water
 - Process Water
 - Boiler Feed Water
 - Condensate Return
 - Cooling Water
 - Municipal Wastewater
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Features

The water sample is completely oxidized at 1,200 °C and the produced CO₂ is detected and quantitatively determined. Due to the temperature, no oxidizing reagents are necessary.

- High temperature combustion at 1,200 °C
 - 4" Siemens PLC with touch
 - Batch principle
 - Accurate determination of TOC and TC, after correlation BOD and COD
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Benefits

Monitoring of important parameters for the evaluation of water quality in one device and powerful hardware for controlling the analyzer.

- Complete sample analysis with high reproducibility
- Low cost of ownership
- Fast process control possible
- Response Time TOC: 1-3 minutes

TECHNICAL DATA

Measurement Technique and Sample Preparation	
Measurement Method	Thermal oxidation at 1,200 °C
Measurement Compliance	According to DIN EN 1484:1997-08/ ISO 8245:1999-03/ US-EPA 415.1
Measurement Ranges	1 – 10.000 ppm TOC. Other ranges on request
Parameter	TOC (NPOC), TC, after correlation BOD and COD
Sensitivity	Depending on the detector/measuring range used for 100-1,000 ppb --> 50 ppb
Oxidation Principle	High Temperature Oxidation (Non-catalytic at 1,200 °C)
Accuracy	Max. 3% of FSR or +/-10ppb whatever is greater
Repeatability	Max. 2% of FSR or +/-10ppb whatever is greater
Response Time	< 2 min. (TC); < 3-4 min. (TOC)
Calibration/ Validation	Auto-calibration and automatic system check
Temperature and Humidity	
Permissible Sample Temperature	TC: until 65 °C. TOC: until 50 °C
Ambient Temperature recommended	10 to 35 °C
Ambient Air Humidity	< 80%
Dimensions and Weight	
Housings	IP65, powder-coated steel housing; Optional: ATEX I / IECex T4 IP65 powder-coated steel housing
Dimensions	H 1140 x B 600 x T 350 mm
Weight	Approx. 57 kg (standard)
Electric and Hydraulic Specifications	
Inflow and Outflow	Sample inlet: 1,6mm ID, Sample outlet: 9mm ID. Carrier gas inlet and outlet: 4mm ID, 6mm ID
Power Supply	230 /115 V~, 50 / 60 Hz
Analogue Output	4-20 mA, USB, collective alarm
Digital Output	4 freely programmable system relays (2 optional)
Serial Interface	Collective alarm, USB, profinet
Safety	2/6 A intern, 10 A extern
Remote Control	via VPN/IP protocol (Internet) (optional)
Options	Ambient Air Preparation, CO2 adsorption unit, sampe taking system FlowSampler
Equipment Devices and Data Output	
4" PLC touchpanel	
Self explanatory software, Autostart function	

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