

PRODUCT DATASHEET

QuickTOCuv™

For continuous water quality analysis and TOC monitoring for clean and pure water for clean and pure water.



Superior Reliability

Fast And Precise

Low Maintenance

- Process Water
- Pure Water
- Condensate Return
- Boiler Feed Water

Quick and precise – QuickTOCuv For Accurate TOC Monitoring

Our QuickTOCuv™ is a water quality analyzer for continuous online determination and measurement of total carbon (TC), total organic carbon (TOC), biochemical oxygen demand (BOD), and chemical oxygen demand (COD) in pure water e.g. condensate return and boiler feed water.

This TOC analyzer oxidizes carbon compounds using UV light and the digestion reagent (sodium persulfate). The generated CO₂ is then measured by a NDIR (non-dispersive infrared) detector. It is ideal for the continuous determination of TOC and TC, after correlation BOD and COD.

Applications

QuickTOCuv can be used across many industries to detect product spills or leakage in process control to optimize production and yield.

- Pure water
 - Boiler feed water
 - Condensate return
 - Drinking water
 - Surface water
 - Wastewater
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Benefits

The QuickTOCuv is designed to provide highest operational safety and a maintenance as well as user-friendly operation. Process safety can be safe-guarded through continuous TOC monitoring.

- Reliable sample analysis with high reproducibility
 - Very low maintenance and operational costs
 - Fast process control possible
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Features

- Recognized UV persulfate method
 - Continuous determination of TOC, TC, after correlation BOD and COD
 - Accuracy of +/- 3%
 - Auto-calibration
 - Reduced consumption of chemicals
 - Certified housing for EX zones (options for ATEX, IECEx, etc.)
 - Analyzer availability of min. 98%
 - Maintenance and service max. 15 min per week
 - Very low maintenance and operational costs
 - Utilizes UV persulfate oxidation
 - Automatic system check (zero point correction, sensitivity)
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Our Global Water Analysis Solutions Deliver

- Improved reliability
- Low cost of ownership
- Meet compliance requirements
- Backed by global service and support

TECHNICAL DATA

QuickTOCuv

Measurement Technique and Sample Preparation	
Measurement Method	UV persulfate oxidation
Measurement Compliance	According to DIN EN 1484:1997-08/ ISO 8245:1999-03/ US-EPA 415.1
Measurement Ranges	0.1 – 1.0 mg/l, 0.5 – 10 mg/l, 1 – 50 mg/l, 10 – 100 mg/l, 50 – 500 mg/l, 100 – 1,000 mg/l
Parameter	TOC, TC
Sensitivity	Depending on the detector/measuring range used for 100-1,000 ppb --> 50 ppb
Oxidation Principle	UV Oxidation, supported by potassium peroxodisulfate
Accuracy	Max. 2% of FSR or +/-10ppb whatever is greater
Repeatability	Max. 2% of FSR or +/-10ppb whatever is greater
Cycle Time	Continuous determination
Response Time	TOnly: < 5 min. (T90), TOCdirect (NPOC): < 5 min. (T90)
Calibration/ Validation	Auto-calibration and automatic system check
Particle Size	Particles less than or equal 100µm
Temperature and Humidity	
Permissible Sample Temperature	5-65°C / 41°F - 149°F TC only, 5-50°C / 41°F - 122°F TOC
Ambient Temperature recommended	10 to 30 °C / 50°F - 86°F
Ambient Air Humidity	Max. 80% (non condensing)
Dimensions and Weight	
Housings	Steel IP54, powder-coated; Optional: Stainless steel, IP 65, EXp Zone 1 and 2 for T3, T4 classes (ATEX, IECEx)
Dimensions	W 925 x H 762 x D 825 mm (Standard housing) W 36.4" x H 30" x D 32.4" (Standard housing)
Weight	From 57 kg / 125.7Lbs (Standard housing)
Electric and Hydraulic Specifications	
Inflow and Outflow	Tube 6 mm ID and 8 mm ID
Power Supply	230 /115 V~, 50 / 60 Hz
Analogue Output	0/4 - 20 mA
Serial Interface	RS 232, combined alarms, Life-Zero, USB
Safety	10 A internal, 16 A external
Internet Capability	LAN, Option for WLAN
Options	Remote control via TCP/IP protocol
Equipment Devices and Data Output	
TFT Graphic-Display, 8,4", high resolution, back-lit	
Self explanatory software, Autostart function	
Automatic system check	

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