

PRODUCT DATASHEET

QuickTOCuv 2

ONLINE TOC ANALYZER

Continuous TOC monitoring
for clean and pure water.



Superior Reliability

Fast And Precise

Maximize Profits

Applications

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

Quick and precise – QuickTOCuv a product you can rely on!

LAR's QuickTOCuv 2 is our latest online TOC analyzer for the continuous determination of total carbon (TC) and total organic carbon (TOC), and after correlation the biological oxygen demand (BOD) and chemical oxygen demand (COD) in solid-free water such as pure, drinking,

surface and process water. The process control has been optimized for high performance. The measuring ranges can be adjusted by individual user input. The measurement system is controlled by a user-friendly 4" PLC with touch screen.

Applications

LAR's total organic carbon analyzer is suitable for a variety of applications in solid-free water such as pure, drinking, surface and process water.

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

Features

The TOC analyzer oxidizes carbon compounds using UV light and a digestion reagent. The generated CO₂ is then measured by a NDIR detector.

- UV persulfate oxidation
- Continuous determination of TOC and TC, after correlation BOD and COD
- 4" Siemens PLC with touch screen

Benefits

Maximum uptime and reliability for TOC analysis in municipal and industrial process water and solid-free water applications.

- Low cost of ownership
- Fast process control possible
- Remote maintenance and diagnosis possible
- Reduced consumption of chemicals



Technical Data

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 ppm, 1-10 ppm, 1-50 ppm- 10-100 ppm, 50-500 ppm, 100-1000 ppm TC or TOC; further on request
Parameter	TOC, TC (measured) BOD, COD (by correlation)
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. 3% of FSR or +/-10ppb whatever is greater
Repeatability	Max. 2% of FSR or +/-10ppb whatever is greater
Cycle Time	Continuous determination
Response Time	< 6 min
Calibration/ Validation	Auto-calibration and automatic system check

Temperature and Humidity

Permissible Sample Temperature	Until 50 °C
Ambient Temperature recommended	10 to 30 °C
Ambient Air Humidity	< 60%

Dimensions and Weight

Housings	IP65, powder-coated steel housing; Optional: ATEX I / IECex T4 IP65 powder-coated steel housing
Dimensions	H 980 x W 600 x D 350 mm
Weight	Approx. 53 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	2 pcs 0/4 - 20mA
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" touchpanel
Self explanatory software, Autostart function

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