

**PRODUCT DATASHEET**

# QuickTOCultra

## ONLINE TOC ANALYZER

Online TRUE TOC for every kind of water.  
Especially for the rough stuff.



**Superior reliability**

**Fast and reliable**

**Maximize profits**

## Applications

- Industrial Wastewater
- Process Water
- High Salt Concentrations
- De-Icing Water

# Quick and precise – QuickTOCultra a product you can rely on!

LAR's QuickTOCultra continually checks the TOC content of waste water. Optionally, other sum parameters can be detected aswell. At 1,200 °C, samples are completely oxidised and within 3 minutes the TRUE TOC result is determined.

LAR's TOC analyzer is the most reliable measurement system for the roughest waste water applications. Due to an unrivaled injection and oxidation technique, the QuickTOCultra easily handles sticky, fatty, salty, and high-particle samples unlike other TOC analyzers.

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## *Applications*

LAR's total organic carbon analyzer is suitable for a variety of applications and types of water, even with frequently changing sample matrixes.

- Water Influent
- Water Effluent
- Discharge Control
- Industrial Waste Water
- De-Icing Water
- Process Water
- High Salt Concentrations
- Oil-in-Water

## *Features*

The raw water sample is oxidized at 1,200 °C and the CO<sub>2</sub> produced is detected and quantitatively determined.

- High Temperature Method at 1,200 °C
- Catalyst-free technique
- Batch principle
- Robotic Injection System

## *Benefits*

Reliable determination of all ingredients of the sample and complete analysis of organic carbon compounds.

- Reliable sample analysis with high reproducibility
- Exceptionally low maintenance and operational costs
- Fast process control possible
- Response Time TOC: 1-2 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 / ASTM D-5173
Measurement Ranges	0.1 - 50,000 mg/l (ppm) TOC, with optional dilution up to 500,000 mg/l (ppm) possible, other ranges on request
Parameter	TOC, TC, TIC, combinations with COD, TNb possible
Sensitivity	Depending on the detector/measuring range used for 0.1-100ppm --> 0.1ppm at 600µl injection volume
Oxidation Principle	High Temperature Oxidation (Non-catalytic at 1,200 °C)
Accuracy	Max. 2% of FSR
Repeatability	Max. 2% of FSR
Cycle Time	TOnly / TNb / COD_o: 1-2 min. TOCdiff: 4-5 min. TOCdirect (NPOC): 4-6 min.
Response Time	3 minutes
Sample Preparation	<ul style="list-style-type: none"><li>• Flow Sampler - Maintenance-free particle separator</li><li>• Optional homogeniser for continuous homogenisation of samples</li></ul>
Particle Size	Particles < 800µm

### Temperature and Humidity

Permissible Sample Temperature	5-60°C / 41°F - 140°F TOnly 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 848 x H 1100 x D 635 mm (Standard housing) W 33.4" x H 43.3" x D 25" (Standard housing)
Weight	From 115 kg / 253.6Lbs (Standard housing)

### Electric and Hydraulic Specifications

Inflow and Outflow	Tube 4,8 mm ID, Tube 8 mm ID, Tube 12 mm ID Tube 0.18" ID, Tube 0.31" ID, Tube 0.47" ID
Power Supply	230 /115 V~, 50 / 60 Hz
Analogue Output	0/4 - 20 mA
Serial Interface	RS 232
Safety	2/6 A internal, 16 A external
Internet Capability	LAN, Option for WLAN
Option	Remote control via TCP/IP protocol

### Equipment Devices and Data Output

TFT Touchscreen-Graphic-Display, 10,4" , high resolution, back-lit
Self explanatory software, Autostart function
Standard data interface to office PC (USA 2.0)

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