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 as well. 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.

**Applications**

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

- 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 CO2 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Method</td>
<td>Thermal oxidation at 1,200 °C</td>
</tr>
<tr>
<td>Measurement Ranges</td>
<td>0.1 - 50,000 mg/l (ppm) TOC, with optional dilution up to 500,000 mg/l (ppm) possible, other ranges on request</td>
</tr>
<tr>
<td>Parameter</td>
<td>TOC, TC, TIC, combinations with COD, TNb possible</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Depending on the detector/measuring range used for 0.1-100ppm --&gt; 0.1ppm at 600µl injection volume</td>
</tr>
<tr>
<td>Oxidation Principle</td>
<td>High Temperature Oxidation (Non-catalytic at 1,200 °C)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Max. 2% of FSR</td>
</tr>
<tr>
<td>Repeatability</td>
<td>Max. 2% of FSR</td>
</tr>
<tr>
<td>Cycle Time</td>
<td>TConly / TNb / COD_o: 1-2 min. TOCdiff: 4-5 min. TOCdirect (NPOC): 4-6 min.</td>
</tr>
<tr>
<td>Sample Preparation</td>
<td>• Flow Sampler - Maintenance-free particle separator</td>
</tr>
<tr>
<td></td>
<td>• Optional homogeniser for continuous homogenisation of samples</td>
</tr>
<tr>
<td>Particle Size</td>
<td>Particles &lt; 800µm</td>
</tr>
</tbody>
</table>

## Temperature and Humidity

| Permissible Sample Temperature         | 5-60°C / 41°F - 140°F TConly 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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PROVIDING PROVEN SOLUTIONS FROM A GLOBAL TECHNOLOGY LEADER

LAR Process Analysers AG
Neuköllnische Allee 134
12057 Berlin, Germany
+49 69 20436910
www.lar.com
info@process-insights.com

Process Insights - The Americas
4140 World Houston Parkway
Suite 180
Houston, TX 77032
USA
+1 713 947 9591
info@process-insights.com

Process Insights - EMEA
ATRICOM
Lyoner Straße 15
60528 Frankfurt
Germany
+49 69 20436910
info@process-insights.com

Process Insights - APAC
Wujiang Economic and Technology Development Zone
No. 258 Yi He Road, 215200 Suzhou
Jiangsu Province China
+86 400 0860196
info@process-insights.com

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