

PRODUCT DATASHEET

QuickTOCpurity

ONLINE TOC ANALYZER

Online TRUE TOC for pure water.
For optimized process control.



Superior reliability

Fast and reliable

Maximize profits

Applications

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

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

LAR's QuickTOCpurity continually checks the TOC content of pure water with lowest concentrations. Even the smallest impurities are detected. At 1,200 °C, samples are completely oxidized and within 3 minutes the TRUE TOC is determined.

LAR's TOC analyzer is the online TOC measurement system for the determination of total carbon (TC), total organic carbon (TOC), total inorganic carbon (TIC) and dissolved organic carbon (DOC) in pure water.

Applications

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

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

Features

With the patented calibration and validation technology QuickCalibration, the analyzer can be calibrated automatically and remotely at any time.

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

Benefits

Maximum uptime and reliability for TOC analysis in industrial process water applications.

- Complete sample analysis with high reproducibility
- Low cost of ownership
- 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
Measurement Ranges	0.1-20 mg/l (ppm); 1-2,000 µg/l (ppb) further options on request
Parameter	TOC, TC, TIC, combinations with COD, TNb possible
Sensitivity	Depending on the detector/measuring range used for 10-1000ppb --> 17ppb at 4000µl injection volume for volume
Oxidation Principle	High Temperature Oxidation (Non-catalytic at 1,200 °C)
Accuracy	Max. 2% of FSR or +/-10ppb whatever is greater
Repeatability	Max. 2% of FSR or +/-10ppb whatever is greater
Cycle Time	TOnly / TNb / COD_o: 1-2 min. TOCdiff: 4-5 min. TOCdirect (NPOC): 4-6 min.
Response Time	1 minute
Calibration Type	Multi point calibration
Calibration/ Validation	QuickCalibration
Particle Size	Particles < 300µm

Temperature and Humidity

Permissible Sample Temperature	5-90°C / 41°F - 194°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, / 0.18" ID
Power Supply	230 /115 V~, 50 / 60 Hz
Analogue Output	0/4 - 20 mA
Serial Interface	RS 232
Safety	10 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 interfaces, e.g. office PC (USB)

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Process Insights' products and solutions deliver innovative and differentiated analysis and measurement solutions and technologies that add high value to our customers and protect the environment.

Our commitment is to deliver smart and affordable innovation that transforms our world that optimizes process, improves safety, and transforms our world.

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