

PRODUCT DATASHEET

QuickTOCtrace

THE CONTINUOUS TOC MONITORING

For the continuous online determination of the total organic carbon (TOC) in ultra pure water applications.



Water Influent

Water Effluent

Boiler Feed Water

Applications

- High reproducibility
- Fast process control possible
- Ultra pure water

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

LAR's TOC analyzer QuickTOCtrace is a reliable analyzer for the lowest measuring ranges, which uses uv oxidation and differential conductivity measurement to determine organic contamination, making it ideal for TOC measurement of (ultra-)pure water. It is a compact and intuitive analyzer with a short reaction time - first results

are available within 30 seconds. Using UV oxidation and differential conductivity measurement, LAR's QuickTOCtrace reliably determines organic concentration in a range of 0.1 to 1,000 ppb TOC and yields results within 30 seconds.

Applications

LAR's TOC analyzer QuickTOCtrace is a reliable analyzer for the lowest measuring ranges, which uses uv oxidation and differential conductivity measurement.

- Pure water
- Ultra pure water
- Process water
- Boiler feed water
- Condensate return

Features

QuickTOCtrace's software enables a quick and simple initiation of the SST at any time and offers automatic data evaluation as well as automatic implementation of the testing procedure.

- Easy system validation with fully automatic SST (optional)
- Comprehensive data storage

Benefits

UV oxidation using the "direct surface" process guarantees highest precision thanks to highly sensitive conductivity sensors.

- Easy calibration (once per year)
- Highly efficient oxidation
- Reaction time of <30 seconds
- Userfriendly software interface with 8" touch screen
- Remote service □ connection



Technical Data

Measurement Technique and Sample Preparation

Measurement Method	UV oxidation (partial) with difference-conductivity measurement
Measurement Ranges	0.1 - 1,000 ppb TOC, 0.055 - 2.0µS/cm conductivity
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 1200 °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	<30 seconds (T90)
Parameter	TOC, conductivity
Calibration	Automatic and manually
Sample Streams	1 to 3 (optional)

Temperature and Humidity

Permissible sample temperature	5-60°C TOnly 5-50°C TOC
Ambient Temperature recommended	10 to 30 °C
Ambient Air Humidity	max 80% (non condensing)

Dimensions and Weight

Dimensions	300 x 500 x 200 mm (W x H x D)
Weight	ca. 7 kg
Particle size	particle < 800µm

Electric and Hydraulic Specifications

Power Supply	230 /115 V~, 50 Hz
Analogue Output	4-20 mA (0-20 mA optional)
Interface	USB 2.0

Equipment Devices and Data Output

8" touch screen graphic display, backlit
Integrated computer for control
Operating system Windows 7 embedded
Self explanatory software incl. Viewer
Automatic System Suitability test (SST)

Accessories and Options

Calibration solutions, SST-Kit, IQ/OQ documentation (conform to NIST, USP etc.)
Heat-exchanger for samples with <50 °C

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