

PRODUCT DATASHEET

QuickTOCuv

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 is an online TOC analyzer for the continuous determination of total carbon (TC), total organic carbon (TOC), non-purgable organic carbon (NPOC), and dissolved organic carbon (DOC) in solid-free water such as pure, drinking, surface and process water.

The process control has been optimized for high performance. The correct function of the NDIR detector is automatically checked on a regular basis by a zero point correction and sensitivity tests. This ensures that deviations are quickly detected and guarantees precise results.

Applications

Monitoring of pure water, especially in the petrochemical and chemical industries, to detect product spills/losses and to protect water-steam cycles.

- 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, TC, NPOC, DOC
- Auto-calibration
- Automatic system check
- Certified housing for EX zones

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
- High resistance to wear and tear
- 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 – 1.0 mg/l, 0.5 – 10 mg/l, 1 – 50 mg/l, 10 – 100 mg/l, 50 – 500 mg/l, 100 – 1,000 mg/l
Parameter	TOC, TC
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. 2% of FSR or +/-10ppb whatever is greater
Repeatability	Max. 2% of FSR or +/-10ppb whatever is greater
Cycle Time	Continuous determination
Response Time	TOnly: < 5 min. (T90) TOCdirect (NPOC): < 5 min. (T90)
Calibration/ Validation	Auto-calibration and automatic system check
Particle Size	Particles less than or equal 100µm

Temperature and Humidity

Permissible Sample Temperature	5-65°C / 41°F - 149°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 925 x H 762 x D 825 mm (Standard housing) W 36.4" x H 30" x D 32.4" (Standard housing)
Weight	From 57 kg / 125.7Lbs (Standard housing)

Electric and Hydraulic Specifications

Inflow and Outflow	Tube 6 mm ID and 8 mm ID
Power Supply	230 /115 V~, 50 / 60 Hz
Analogue Output	0/4 - 20 mA
Serial Interface	RS 232, collective alarm, Life-Zero, USB
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 Graphic-Display, 8,4" , high resolution, back-lit
Self explanatory software, Autostart function
Automatic system check

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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.

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