

PRODUCT DATASHEET

QuickTONultra

ONLINE NITROGEN ANALYZER

For the rough stuff.



Superior Reliability

Fast And Reliable

Maximize Profits

Applications

- De-Icing Water
- Water Influent
- Water Effluent

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

LAR's QuickTONultra continually monitors the TNb content of water. Optionally, further sum parameters can be detected, too. At 1,200 °C, samples are completely oxidised and only within 3 minutes the TNb result is determined. The

QuickTONultra is the ultimate online TNb analyzer for the determination of total nitrogen bound (TNb) in waste water and process water applications.

Applications

The QuickTONultra is the ultimate online TNb analyzer for the determination of total nitrogen bound (TNb) in waste water and process water applications.

- Process Water
- Water Influent
- Water Effluent
- Discharge Control
- Industrial Waste Water
- De-Icing Water
- Drinking Water
- Groundwater
- High Salt Concentrations

Features

Lower temperatures at 680-1,000°C need catalysts to provide satisfying oxidation power. Even then complex compounds often are not determined.

- Proven thermal oxidation principle
- Catalyst-free technique
- No filtration necessary

Benefits

This online TNb analyzer can handle salt concentrations up to even 300 g/l sodium chloride (NaCl). Salts that melt at the temperature of 1,200°C are vaporised by the combustion power.

- Exact determination of TC, TOC, (TRUE TOC) and TIC
- Exceptionally low maintenance and operational costs
- High salt concentrations possible, up to 30% NaCl
- Measurement of complete samples incl. solids/ particles



Technical Data

Measurement Technique and Sample Preparation

Measurement Method	Thermal oxidation at 1,200 °C
Measurement Ranges	0.1 - 1,000 mg/l TNb Working ranges on request
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.
Parameter	TNb combination with TOC, COD possible
Response Time	3 minutes
Sample Preparation	<ul style="list-style-type: none">• Flow Sampler - Maintenance-free particle separator• Optional homogeniser for the continuous homogenisation of samples

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

Options	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
Weight	from 115 kg (standard housing)
Particle size	particle < 800µm

Electric and Hydraulic Specifications

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

Equipment Devices and Data Output

High resolution and back lit TFT touchscreen graphic display, 10.4"
Self explanatory software, Autostart function
Standard data interfaces to office PC (USB 2.0)

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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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