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Модуль 1030C TN_b OI Analytical

Take your analysis to the next level with the Aurora 1030C TN_b Module. As an add-on option to the Aurora 1030C TOC Analyzer, the TN_b module allows for simultaneous analysis of total bound nitrogen concentrations in aqueous samples. It's a smarter, safer, and more efficient solution to total nitrogen analysis.



Move over Total Kjeldahl Nitrogen (TKN) testing. There's a new total nitrogen analyzer in town, and it draws a quick analysis time of 10-15 minutes...

The Aurora 1030C TN_b Module measures the total bound nitrogen (TN_b) content of water samples to provide an indication of the amount of pollutants present in those samples. Total bound nitrogen consists of dissolved ammonia, nitrates, nitrites, amines, and other nitrogen-containing compounds.

The TN_b analysis module is an optional accessory for the Aurora 1030C TOC analyzer that allows measurement of total bound (inorganic and organic) nitrogen (excluding N₂) concentrations in aqueous samples. Total nitrogen can be measured simultaneously during NPOC and TC analysis or as a separate function when operated in the TN_b analysis mode.

Principal applications include: drinking water, wastewater, sewage effluent, agricultural runoff, and surface water. Methods used include: EN-12260 and DIN-ISO 11905-2.

Aurora 1030C TN_b Module Features:

Direct measurement of Total Nitrogen (TN_b) concentration in aqueous samples

Faster analysis time than Total Kjeldahl Nitrogen (TKN) testing (10–15 minutes versus 2–3 hours)

High temperature combustion used in the Aurora TN_b is more effective for difficult sample matrices such as brines and particulates

Eliminates labor and hazardous chemical exposure associated with TKN digestion

TN_b module mounts onto the Aurora 1030C TOC Analyzer, requiring no additional lab benchspace

TN_b Analysis Module

Factory installation or in-field upgrade

Analysis Mode

Simultaneous with NPOC and TC analysis or independent TN_b analysis

Sample Oxidation	High temperature combustion oxidizes inorganic and organic nitrogen compounds to NO
Measurement Principle	NO measurement using an electrochemical sensor
Measurement Range	100 ppb–1,000 ppm
Correlation Coefficient	0.9995
Reproducibility	3% RSD or ± 25 ppb, whichever is greater
Power Supply	Power from 1030C TOC Analyzer, 9-V backup battery maintains polarization of the detector

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