TN analyzer
Liquiline System CA80TN

Total nitrogen analyzer for environmental monitoring, industrial and municipal wastewater

More information and current pricing:
www.endress.com/CA80TN

Benefits:

- Standardized alkaline persulfate digestion and UV-photometric measurement according to HJ636 offer direct comparability to most cuvette tests.
- Robust: Titanium reactor with sapphire glass windows ensures a long lifetime.
- Flexible: Integrated dilution module covers a wide measuring range.
- Fast and easy process integration: Direct installation of self-priming version or y-strainer for bypass applications.
- Easy upgrade to a complete measuring station - simply by adding modules and connecting Memosens sensors.

Specs at a glance

- **Measurement range** 0 to 10 mg/l N 0 to 50 mg/l N 0 to 200 mg/l N
- **Process temperature** 4 to 40 °C (39.2 to 104 °F)
- **Process pressure** At atmospheric pressure, < 0.2 bar

Field of application: Nitrogen is a lead parameter to determine surface water quality and wastewater effluent values. Both, organic and inorganic substances contribute to the total nitrogen load. Increased nitrogen contents indicate influences from wastewater, landfill leachate or agriculture. Liquiline System CA80TN analyzer offers precise online measurement of total nitrogen and ensures highest process safety. Advanced diagnostics with remote access support you in providing process documentation to the authorities.

Features and specifications

Analyser

Measuring principle
UV photometric

Characteristic
Process analyzer for total nitrogen in aqueous solutions
UV photometric method following HJ636-2012

Size
Housing (open version):
793 x 530 x 417 mm
31.22 x 20.87 x 16.42 in
Housing (closed version):
793 x 530 x 463 mm
31.22 x 20.87 x 18.23 in
Housing with base:
1723 x 530 x 463 mm
67.83 x 20.87 x 18.23 in

Design
Open design, cabinet and stand housing
High-Performance plastic ASA-PC, additional stand coated steel

Process temperature
4 to 40 °C (39.2 to 104 °F)

Ambient temperature
5 to 40 °C (41 to 104 °F)

Process pressure
At atmospheric pressure, < 0.2 bar

Sample flow rate
Min. 15 ml/min (0.51 fl.oz/min)

Consistency of the sample
Aqueous, homogeneous

Analyser

Application

Monitoring of wastewater treatment plant outlet
Monitoring of the surface water quality
Monitoring of industrial water treatment
Monitoring and optimization of industrial wastewater treatment plants

Power supply

100 to 120 VAC / 200 to 240 VAC ± 10%
50 ± 1 or 60 ± 1,2 Hz

Output / communication

2x 0/4 to 20 mA
Modbus RS485/TCP (optional)
Webserver (optional)
Ethernet/IP
Profibus DP
Alarm relay

Input

1 measuring channel
1 to 4 digital sensor inputs for sensors with Memosens protocol (optional)

Measurement range

0 to 10 mg/l N
0 to 50 mg/l N
0 to 200 mg/l N

Consumables

Reagents and standard solutions CY80TN as well as cleaner CY800 are necessary for the operation
Regular maintenance is done with the parts of the maintenance kit CAV880

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