Nitrite analyzer
Liquiline System CA80NO

Colorimetric system for monitoring of drinking water, mineral water or raw water for food production

More information and current pricing:
www.endress.com/CA80NO

Benefits:

- Compliance with standard colorimetric measuring principle - naphthylamine method - following ISO 6777 and DIN EN 26777 ensures comparability to lab measurements.
- Reduced operating costs through automatic calibration and cleaning.
- Simple maintenance: no tools required.
- Advanced diagnostics with remote access for increased process safety.
- Fast commissioning and plug & play thanks to Memosens technology and user-friendly operation.
- Easy upgrade of functionality - even to a complete measuring station - simply by adding modules and connecting Memosens sensors. Reduces installation effort.

Specs at a glance

- **Measuring range** 10 to 500 µg/l NO2-N 0.2 to 3.0 mg/l NO2-N 0.1 to 1.0 mg/l NO2-N 0.1 to 1.0 mg/l with dilution function to maximum 5 to 50 mg/l NO2-N
- **Process temperature** 4 to 40 °C (39 to 104 °F)
- **Process pressure** At atmospheric pressure, < 0.2 bar absolute

Field of application: Liquiline System CA80NO offers precise, regulation-compliant online measurement of nitrite. It supports you in meeting the specified limits in drinking water, mineral water or food production. Like all Liquiline System analyzers, it enables plug & play of up to four Memosens sensors – minimizing the installation effort. Automatic calibration and cleaning and the low reagent consumption reduce

operating and maintenance costs. Advanced diagnostics with remote access ensure process safety.

Features and specifications

Analyser

Measuring principle
Colorimetric

Characteristic
Process analyzer for Nitrite in potable water

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 to 104 °F)

Ambient temperature
5 to 40 °C (41 to 104 °F)
Outdoor version: - 20 to 40 °C (-4 to 104 °F)

Process pressure
At atmospheric pressure, < 0.2 bar absolute

Sample flow rate
Min. 5 ml/min (0.17 fl.oz/min)

Analyser

Consistency of the sample

Suspended solids content
Turbitity < 50 NTU, aqueous, homogenized

Specials

Easy upgrade to measuring station with up to four digital Memosens sensors
Automatic calibration and cleaning
User-configurable measuring, cleaning and calibration intervals
Optional cooling module for standard solution
2 channel version optional
User-definable measuring ranges
Modular design for easily extensible functionality

Application

Limit value monitoring of nitrite for potable water and mineral water applications

Power supply

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

Output / communication

2x 0/4 to 20 mA
Modbus RS485/TCP (optional)
Ethernet (optional)
Alarmrelay

Input

1 or 2 measuring channel
1 to 4 digital sensor inputs for sensors with Memosens protocol (optional)

Analyser

Measuring range

10 to 500 µg/l NO2-N
0.2 to 3.0 mg/l NO2-N
0.1 to 1.0 mg/l NO2-N
0.1 to 1.0 mg/l with dilution function to maximum 5 to 50 mg/l NO2-N

Consumables

Reagents and standard solutions CY80NO as well as cleaner CY800 are necessary for the operation
Regular maintenance is done with the parts of the maintenance kit CAV800

More information **www.endress.com/CA80NO**