

# 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.au.endress.com/CA80NO](http://www.au.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

- **Measurement range** 10 to 500 µg/l NO<sub>2</sub>-N 0.2 to 3.0 mg/l NO<sub>2</sub>-N 0.1 to 1.0 mg/l NO<sub>2</sub>-N 0.1 to 1.0 mg/l with dilution function to maximum 5 to 50 mg/l NO<sub>2</sub>-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)

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## Analyser

### Consistency of the sample

Suspended solids content

Turbidity < 50 NTU, aqueous, homogenized

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### 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

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### Application

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

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### Power supply

100 to 120 VAC / 200 to 240 VAC  $\pm$  10%

24 VDC  $\pm$  10%

50  $\pm$  1 or 60  $\pm$  1,2 Hz

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### Output / communication

2x 0/4 to 20 mA

Modbus RS485/TCP (optional)

Ethernet (optional)

Alarmrelay

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### Input

1 or 2 measuring channel

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

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## Analyser

### Measurement range

10 to 500 µg/l NO<sub>2</sub>-N

0.2 to 3.0 mg/l NO<sub>2</sub>-N

0.1 to 1.0 mg/l NO<sub>2</sub>-N

0.1 to 1.0 mg/l with dilution function to maximum 5 to 50 mg/l NO<sub>2</sub>-N

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### 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

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