

# COD analyzer

## Liquiline System CA80COD

Analyzer for chemical oxygen demand in environmental monitoring, industrial and municipal wastewater



More information and current pricing:

[www.de.endress.com/CA80COD](http://www.de.endress.com/CA80COD)

### Benefits:

- Established COD dichromate method directly comparable to laboratory results.
- Meeting industry needs: The analyzer is perfectly suited for environmental monitoring, industrial and municipal wastewater.
- Fast and easy process integration: Direct installation of self-priming version or y-strainer for bypass applications.
- Safety on the highest level: Software-controlled safety cover for the reactor and all heated parts.
- Combination of reliable sample delivery and high-precision dosing: Peristaltic pumps are able to cope with particles in the sample. Light barriers enable precise, reproducible dosing.
- Easy upgrade of functionality to a complete measuring station - simply by adding modules and connecting Memosens sensors.

### Specs at a glance

- **Measurement range** 0 to 500 mg/l O<sub>2</sub> COD chromate method 0 to 5000 mg/l O<sub>2</sub> COD chromate method 0 to 5000 mg/l O<sub>2</sub> COD chromate method + dilution module (1:4)
- **Process temperature** 4 to 40 °C (39 to 104 °F)
- **Process pressure** Atmospheric

**Field of application:** Liquiline System CA80COD offers constant online measurement of the chemical oxygen demand (COD). It supports you in monitoring the cleaning capacity of wastewater treatment plants and enables load-based billing for industrial dischargers. Automatic calibration and cleaning save operating costs while advanced diagnostics with remote access help to provide process documentation to authorities.

The COD analyzer's software-controlled safety functions ensure the highest level of occupational safety.

## Features and specifications

### Analyser

**Measuring principle**

Colorimetric

**Characteristic**

Analyzer for chemical oxygen demand (COD)

**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**

Atmospheric

**Sample flow rate**

min. 30 ml/min

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## Analyser

### Consistency of the sample

Aqueous homogeneous sample

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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

Self-priming analyzer with optical dosing unit I

Dilution module (optional)

Digital communication for remote access

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### Application

Environmental monitoring, limit value monitoring of industrial and municipal waste water

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### Power supply

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

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

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### Output / communication

2x 0/4 to 20 mA

Modbus RS485/TCP (optional)

Webserver (optional)

EtherNet/IP

PROFIBUS DP

Alarmrelay

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### Input

1 measuring channel

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

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### Measurement range

0 to 500 mg/l O<sub>2</sub> COD chromate method

0 to 5000 mg/l O<sub>2</sub> COD chromate method

0 to 5000 mg/l O<sub>2</sub> COD chromate method + dilution module (1:4)

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## Analyser

### Consumables

Reagents and standard solutions CY80COD are necessary for the operation

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