

# Digital nitrate or SAC sensor Viomax CAS51D

## Memosens sensor for optical nitrate or SAC measurement in water, wastewater and utilities



More information and current pricing:

[www.au.endress.com/CAS51D](http://www.au.endress.com/CAS51D)

### Benefits:

- Cost-effective: Easy, chemical-free handling is safe, environmentally friendly and saves on operational expenditure.
- Extremely fast response time: Measured value processing in the sensor provides reliable real-time process information.
- Fast and easy commissioning: Sensor comes precalibrated and preconfigured ex factory.
- Enables unattended plant operation: Intelligent design and automatic air-cleaning functionality maximize availability and minimize maintenance.
- Perfect adaption to open basins: Fast and flexible sensor positioning with Flexdip CYH112 holder and CYA112 assembly system.
- Perfect adaption to pipes: Various flow cells allow easy plant integration.

### Specs at a glance

- **Measurement range** 0.01 to 20 mg/l / 0.1 to 50 mg/l NO<sub>3</sub>-N  
0.04 to 80 mg/l / 0.4 to 200 mg/l NO<sub>3</sub> 0.1 to 50 l/m / 0.5 to 250 l/m / 1.5 to 700 l/m SAC 0.15 to 75 mg/l / 0.75 to 370 mg/l / 2.5 to 1000 mg/l COD (254nm) 0.06 to 30 mg/l / 0.3 to 150 mg/l / 0.9 to 410 mg/l TOC (254nm)
- **Process temperature** 5 to 50°C (41 to 120 °F)

**Field of application:** Viomax CAS51D is a smart sensor that allows unattended operation in a wide range of process conditions. Just immerse it into your process and measure. The sensor's unique design is extremely robust and it is also low-maintenance thanks to its self-cleaning functionality. With Memosens digital technology, CAS51D

combines maximum process and data integrity with simple operation. It enables lab calibration and simplifies predictive maintenance.

## Features and specifications

### Analyser

**Measuring principle**

UV photometric

**Characteristic**

Insitu (immersion in process), extractive with sample and flow cell  
Optical photometric sensor for nitrate and SAC

**Size**

388 / 394 mm x 40 mm, depends on version

**Design**

40 mm sensor, stainless steel 316L

**Process temperature**

5 to 50°C (41 to 120 °F)

**Ambient temperature**

-20 to 60 °C (-4 to 140 °F)

**Specials**

G1, NPT3/4

IP68 (1m/3,3ft) water column with 1N KCl during 60d ays

**Application**

Drinking water, biological waste wate process, WWTP effluent  
Monitoring of surface water

**Measurement range**

0.01 to 20 mg/l / 0.1 to 50 mg/l NO<sub>3</sub>-N

0.04 to 80 mg/l / 0.4 to 200 mg/l NO<sub>3</sub>

0.1 to 50 1/m / 0.5 to 250 1/m / 1.5 to 700 1/m SAC

0.15 to 75 mg/l / 0.75 to 370 mg/l / 2.5 to 1000 mg/l COD  
(254nm)

0.06 to 30 mg/l / 0.3 to 150 mg/l / 0.9 to 410 mg/l TOC (254nm)

## Analyser

---

More information [www.au.endress.com/CAS51D](http://www.au.endress.com/CAS51D)