

COD 200/2000 COD Analyser



The COD series features online analysers for the continuous monitoring of the chemical oxygen demand (COD).

Available in three different housings: Standing with castors as COD-LAB, wall-mounted as COD-PRO or as COD-FIX in a heated stainless steel cabinet for outdoor installation at the site of measurement.

The COD 200 is suitable for measuring ranges of approx. 0-2000 mg/l O₂. The COD 2000 with its additional dilution pump covers high measuring ranges up to 20000 mg/l O₂.

- High accuracy
- Eco-friendly method
- Minimum maintenance
- Easy operation
- Sturdy design
- Very low operating costs

Method

The chemical oxygen demand (COD) is measured with the aid of a very durable, long-term stable optical DO probe via the consumption of oxidant. Eco-friendly hydrogen peroxide (H₂O₂) is added depending on the COD level and converted into highly reactive OH radicals under UV light. A very good correlation between the measured values and the dichromate standard method is thus guaranteed.

This method minimises the costs of maintenance work as well as the time needed, often only ½ hour per month. The COD family is thus unparalleled anywhere in the world when it comes to ease of maintenance.

Applications

Process water (paper industry, refineries, food industry)

Municipal wastewater treatment plants

Condensate and Cooling water

River water

General technical data

COD Series Analysers

| | |
|--------------------|--|
| Measuring method | Oxidation by H ₂ O ₂ under UV light |
| Measuring interval | Continuous |
| Measuring range | LAB/PRO/FIX 200: up to 2 000 mg/l LAB/PRO/FIX 2000: up to 20 000 mg/l |
| Accuracy | LAB/PRO/FIX 200: ± 2% of measured value ± 2 mg/l LAB/PRO/FIX 2000: ± 2% of measured value ± 50 mg/l |
| Repeatability | ± 1% of measured value |
| Calibration | Automatic, manual or via remote control |
| Sample volume | 1~2 l/h |
| Signal output | 4~20 mA, RS 232, optional RS 422 |
| Alarm output | Potential free contact |
| Power supply | 230 V AC ± 10%, 50 Hz, optional 115 V AC ± 10%, 60 Hz |
| Sample temperature | 10~50 °C |

Housing data

COD-LAB

| | |
|---------------------|----------------------------------|
| Description | Sheet steel housing with castors |
| Power consumption | Max. 100 VA |
| Ambient temperature | 10~45 °C |
| Dimensions | 690 mm × 1780 mm × 690 mm |
| Weight | Approx. 95 kg (without reagents) |
| Protection class | IP 44 |

Product code 747 310



COD-PRO

| | |
|---------------------|--|
| Description | Sheet steel housing for wall mounting |
| Power consumption | Max. 100 VA |
| Ambient temperature | 10~45 °C |
| Dimensions | 600 mm × 1140 mm × 400 mm + 600 mm × 110 mm × 400 mm (drip pan) |
| Weight | Approx. 80 kg (without reagents) |
| Protection class | IP 44 |

Product code 747 330



COD-FIX

| | |
|---------------------|---|
| Description | V2A stainless steel isolated with 40 mm PU foam |
| Power consumption | Max. 300 VA |
| Ambient temperature | -20~45 °C |
| Dimensions | 720 mm × 1930 mm × 720 mm |
| Weight | Approx. 140 kg (without reagents) |
| Protection class | IP 65 |

Product code 746 220

