

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. 0-500 mg/l O₂. The COD 2000 with its additional dilution pump covers high measuring ranges up to 20,0 g/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: 0~500 mg/l LAB/PRO/FIX 2000: 0.00~20.0 g/l
Accuracy	LAB/PRO/FIX 200: ± 2% of measured value ± 2 mg/l LAB/PRO/FIX 2000: ± 2% of measured value ± 0.05 g/l
Resolution	0.01 mg/l (measured value 0.01~9.99 mg/l) 0.1 mg/l (measured value 10.0~99.9 mg/l) 1 mg/l (measured value ≥ 100 mg/l)
Repeatability	± 1% of measured value
Response time t ₉₀	15 minutes
Calibration	Automatic or manual
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	15~40 °C
Dimensions	690 mm × 1780 mm × 690 mm
Weight	Approx. 95 kg (without reagents)
Protection class	IP 44

Product code 747 314 COD-LAB 200
Product code 747 324 COD-LAB 2000



COD-PRO

Description	Sheet steel housing for wall mounting
Power consumption	Max. 100 VA
Ambient temperature	15~40 °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 747 334 COD-PRO 200
Product code 747 344 COD-PRO 2000



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 746 224 COD-FIX 200
Product code 746 234 COD-FIX 2000



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