



CODG-3000 Online COD Analyzer

BOQU has completely independent intellectual property rights for CODG-3000 automatic online COD analyzer. It's user Potassium dichromate principle and totally auto-measurement and unattended for a long time.

Main features:

- 1) Unique design makes this product have lower failure rate, lower maintenance, lower reagent consumption and higher cost performance than similar products.
- 2) Select valve component: Select reagent sampling timing, flexible channels, wide function, minimum dead volume, easy maintenance and long life.
- 3) Micro-metering component: Accurate metering of reagents through visible photoelectric system, which overcomes the quantitative error caused by wear of peristaltic pump tube; at the same time, it realizes accurate quantification of trace reagents, each dose is only 1 ml, which greatly reduces the reagent usage.
- 4) Sample Injection component: peristaltic pump suction in negative pressure, there is always an air buffer between the reagent and the pump tube, avoiding the corrosion of the pump tube; at the same time, the reagent mixing is more compact and flexible.
- 5) Sealed digestion component: high temperature and high pressure digestion system, speeding up the reaction process, overcoming the corrosion of equipment by corrosive gas volatilization of open system
- 6) Reagent tube: imported modified PTFE transparent hose, the diameter of the tube is more than 1.5mm, reducing the probability of water sample clogging

Technical parameters:

Standard: National standard GB11914-89

《Water Quality- Chemical oxygen demand Measurement- Potassium dichromate》;

Measuring range: 5-1500 mg/L COD; max range: 15000mg/L

Accuracy: $\leq \pm 10\%$ when $\geq 100\text{mg/L}$; $\leq \pm 8\text{mg/L}$ when $< 100\text{mg/L}$

Repeatability: $\leq \pm 10\%$ when $\geq 100\text{mg/L}$; $\leq \pm 6\text{mg/L}$ when $< 100\text{mg/L}$

Value error: $\leq \pm 10\%$;

Measurement period: 35 minutes ~ 120 minutes according to the actual water sample

The digestion time: The digestion time is adjustable in 10min to 120 minutes.

Sampling period: Time interval (55~9999min adjustable by yourself) and

Integral time measurement mode;

Calibration period: adjustable in 1~99 days;

Maintenance period: Usually one time per month and 30 minutes each time

Output: 4~20mA (2 ways) RS232, RS485;

Relay: 2 relays;

Ambient requirement: it should be indoor and temperature can be adjustable.

The recommend temperature is $+5\sim 28^{\circ}\text{C}$; humidity $\leq 90\%$ (no dew);

Power: AC $220 \pm 10\%$ V, $50 \pm 10\%$ Hz, 5 A;

Dimension size: Height 1450 × Width 510 × Length 450 mm;

Data saved: the data can be saved when abnormal alarms and power off.

Display: touch screen and Command Input

Other: When Reset after abnormal alarm and power on after off,

the instrument automatically discharges residual reactants in the instrument and automatically resumes working status.

