



Online BOD Analyzer

Model : BODG-3063

The BODG-3063 Online BOD analyzer produced by BOQU Instrument.it's widely used in industrial, electric power, agriculture, medicine, food, scientific research and environmental protection. The instrument is also an essential inspection equipment in the food factory, drinking water factory QS, HACCP certification.BOD(Biochemical Oxygen Demand) is an environmental monitoring indicator used to monitor the pollution of organic matter in water. Generally, organic matter can be decomposed by microorganisms, but microorganisms need to consume oxygen when decomposing organic compounds in water. If the dissolved oxygen in the water is insufficient to supply microorganisms, the water is in a state of pollution. BOD is an indicator of environmental protection.

Principle:

The mixed liquid of Water sample, potassium dichromate solution, mercury sulfate , silver sulfate solution is heated up to 165 ° C. The color of the organic substance in the dichromate ion oxidizing solution changes. The BODG-3063 online BOD analyzer detects the change in the color and converts the change into BOD value.The amount of dichromate ions consumed is equivalent to the amount of oxidizable organic matter.

Technical parameters:

Standard: National standard GB11914-89

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

Measuring range:5-1500 mg/L BOD;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:35minutes ~120minutes according to the actual water sample

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

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

Integral time measurement mode;

Calibration period: adjustable in 1~99days;

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:AC220 $\pm 10\%$ V,50 $\pm 10\%$ Hz,5 A;

Dimension size: Height 1450 \times Width510 \times 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.

