

T9008 BOD Water Quality On-line Automatic Monitor



Product Principle:

Water sample, potassium dichromate digestion solution, silver sulfate solution (silver sulfate as a catalyst to join can more effectively straight-chain fatty compound oxide) and sulfuric acid mixture is heated to 175 °C, dichromate ion oxide solution of organic matter after color change, analyzer to detect the changes in color, and the change of conversion into BOD value output and consumption of dichromate ion content of oxidizable organic matter quantity.

3. Technical Parameters:

No.	Name	Technical Parameters
1	Application Range	This product is suitable for wastewater with chemical oxygen demand in the range of 10~2000mg/L and chloride concentration lower than 2.5g/L Cl ⁻ . It can be extended to wastewater with chloride concentration lower than 20g/L Cl ⁻ according to customers' actual demand.
2	Test Methods	Potassium dichromate was digested at high temperature and colorimetric determination.
3	Measuring range	10~2000mg/L

4	Lower limit of Detection	3
5	Resolution	0.1
6	Accuracy	$\pm 10\%$ or $\pm 8\text{mg/L}$ (Take the bigger value)
7	Repeatability	10% or 6mg/L (Take the bigger value)
8	Zero Drift	$\pm 5\text{mg/L}$
9	Span Drift	10%
10	Measurement cycle	Minimum 20 minutes. Depending on the actual water sample, the digestion time can be set from 5 to 120min.
11	Sampling period	Time interval (adjustable), integral hour or trigger measurement mode can be set.
12	Calibration cycle	Automatic calibration (1-99 days adjustable), according to actual water samples, manual calibration can be set.
13	Maintenance cycle	Maintenance interval is more than one month, about 30 minutes each time.
14	Human-machine operation	Touch screen display and instruction input.

15	Self checking protection	Working status is self-diagnostic, abnormal or power failure will not lose data. Automatically eliminates residual reactants and resumes work after abnormal reset or power failure.
16	Data storage	No less than half a year data storage
17	Input interface	Switch quantity
18	Output interface	Two RS485 digital output, One 4-20mA analog output
19	Working Conditions	Working indoors; temperature 5-28°C; relative humidity≤90% (no condensation,no dew)
20	Power Supply and Consumption	AC230±10%V, 50~60Hz, 5A
21	Dimensions	355×400×600(mm)