T9000
CODcr Water Quality On-line Automatic Monitor



## 1. Product Overview:

Chemical oxygen demand (COD) refers to the mass concentration of oxygen consumed by oxidants when oxidizing organic and inorganic reducing substances in water samples with strong oxidants under certain conditions. COD is also an important index reflecting the degree of pollution of water by organic and inorganic reducing substances.

The analyzer can work automatically and continuously for a long time without attendance according to the site settings. It is widely used in industrial pollution source discharge wastewater, industrial process wastewater, industrial sewage treatment plant wastewater, municipal sewage treatment plant wastewater and other occasions. According to the complexity of site test conditions, the corresponding pretreatment system can be selected to ensure the test process is reliable, test results are accurate, and fully meet the needs of different occasions.

## 2. Product Principle:

Water samples, potassium dichromate digestion solution, silver sulfate solution (silver sulfate as catalyst can be added to oxidize linear aliphatic compounds more effectively) and concentrated sulfuric acid mixture heated to 175 °C . The color of organic compounds in dichromate ion oxidation solution will change. The analyzer detects the color change and converts the change into COD value then output the value. The amount of dichromate ion consumed is equivalent to the amount of oxidizable organic matter, namely COD.

## 3. Technical Parameters:

No.	Name	Technical Specifications
1	Application	Suitable for wastewater with COD in the range of
	Range	10~5,000mg/L and chloride concentration less
		than 2.5g/L Cl According to customers' actual
		demand, it can be extended to wastewater with
		chloride concentration less than 20g/L Cl
2	Test Methods	Potassium dichromate digestion at high
		temperature, colorimetric determination
3	Measuring range	10~5,000mg/L
4	Lower limit of	3
	Detection	
5	Resolution	0.1
6	Accuracy	$\pm 10\%$ or $\pm 8$ mg/L(Take the bigger value)
7	Repeatability	10% or 6mg/L(Take the larger value)
8	Zero Drift	±5mg/L
9	Span Drift	±10%
10	Measurement	Minimum 20 minutes. According to the actual
	cycle	water sample, the digestion time can be set from 5
		to120 minutes.
11	Sampling period	Time interval (adjustable), integral hour or trigger
		measurement mode can be set.

12	Calibration	Automatic calibration (1-99 days adjustable),
	cycle	according to actual water samples, manual
		calibration can be set.
13	Maintenance	Maintenance interval is more than one month,
	cycle	about 30 minutes each time.
14	Human-machine	Touch screen display and instruction input.
	operation	
15		Working status is self-diagnostic, abnormal or
	Self checking	power failure will not lose data. Automatically
	protection	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	Working indoors; temperature 5-28°C; relative
	Conditions	humidity≤90% (no condensation,no dew)
20	Power Supply	
	Consumption	AC230±10%V, 50~60Hz, 5A
21	Dimensions	355×400×600(mm)