

YK1001 COD Analyzer



Chemical oxygen demand (COD) refers to the amount of oxygen required for the oxidation and decomposition of organic matter under certain conditions. COD is one of the important pollution indicators of water bodies and is often used in environmental monitoring, wastewater treatment and other fields.

The COD determination method is to mix the water sample to be tested with a certain amount of solution containing a high concentration of oxidant (such as potassium sulfate), oxidize and decompose the organic matter in the water sample under heating conditions, and convert it into inorganic substances (such as carbon dioxide and water), and at the same time determine the amount of consumed oxidant to calculate the COD value. The purpose of COD determination is to measure the total amount of organic matter in water, so for water samples containing a large amount of volatile organic matter, special pretreatment methods are required.

Instrument features:

- 1.7-inch large color touch screen, easy-to-use graphical interactive interface design, easy to use with laboratory gloves, easy to clean and maintain, with rich test parameter information, easy to operate, and more intuitive and clear viewing results.
2. Using cold light source, the light source life is up to 10W hours, fast response, and can be tested at startup.
3. Supports two measurement methods: colorimetric tube and colorimetric dish, classified standard curve, simple and intuitive, supports customer customization and editing curves. Supports all conventional water quality projects and customized expansion projects.
4. Built-in thermal printer, supports automatic printing and batch printing.



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5. Powerful storage function, equipped with a standard USB interface, can directly export data for editing, measurement and storage, and the data has a power-off retention function.
6. Using national standard pre-made reagents, just add the water sample to the reagent tube, which can greatly shorten the preparation time of the reagent.
7. Comply with standard COD- 《HJ/T 399-2007》
8. With WT-16G multi-function intelligent digester, multiple digestion programs are pre-stored, which can be used directly, support custom digestion settings, and one-button operation.

Host parameters:

Test items: COD (chemical oxygen demand)
Measurement range: 5-10000mg/L
Determination method: rapid digestion spectrophotometry
Detection limit: 5mg/L
Chlorine interference: 2000mg/L
Indication error: $\leq 5\%$
Repeatability: $\leq \pm 3\%$
Optical stability: $\leq 0.001A$
Light source life: 100,000 hours
Measurement time: 15-20 minutes
Data storage: Can store more than 5,000 items
Colorimetric method: colorimetric dish/colorimetric tube
Display: 7-inch color touch screen
Printer: built-in thermal printer
Data communication: USB interface, RS-232 serial port

Application Areas

1. Environmental monitoring can be used to monitor various water environments, such as rivers, lakes, groundwater, seawater, etc. In these environments, COD meters can help identify pollution sources, monitor water quality changes, and assess the health of ecosystems.
2. Wastewater treatment
COD meter is an important wastewater treatment equipment that can help engineers determine the treatment effect of wastewater and adjust the wastewater treatment process in time according to the measurement results to achieve better treatment results.
3. Food processing industry
It can also be used in the food processing industry. For example, in the beer manufacturing process, COD value is a key indicator for monitoring cleaning wastewater, which determines whether further treatment and recycling are required; in addition, it can also be used to monitor industrial wastewater, hospitals, and other fields.