



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Water Quality On-line COD Analyzer

Supmea[®]

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Datasheet**Water Quality On-line COD Analyzer**

Water Quality On-line COD Analyzer is widely used for online monitoring of COD (Chemical Oxygen Demand) values in various technological processes such as regulating pools, biochemical ponds, and effluent in sewage treatment plants. At the same time, they are also suitable for online monitoring of COD values in waterworks, surface water, groundwater, coastal seawater, water used in various industrial production processes, aquaculture, and other industries.

Applications

- Wastewater
- Tap water
- Aquaculture
- Groundwater quality
- Medical Institutions
- River water quality monitoring
- Laboratory water quality testing
- Coastal seawater

**Features**

- The ModBus serial port can be customized,;
- Multi platform and multi protocol transmission;
- Real time data display, query of historical hourly mean and daily mean data;
- Built in rich instrument protocols
- Set upper and lower alarm limits;
- Remote upgrade, USB drive upgrade, and built-in fault tolerance mechanism;
- Supporting webpage uploading and external USB flashdrives;
- Support manual and automatic supplementary transmission, dual data protection;

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- Support platform reverse control samplers and online monitoring equipment;

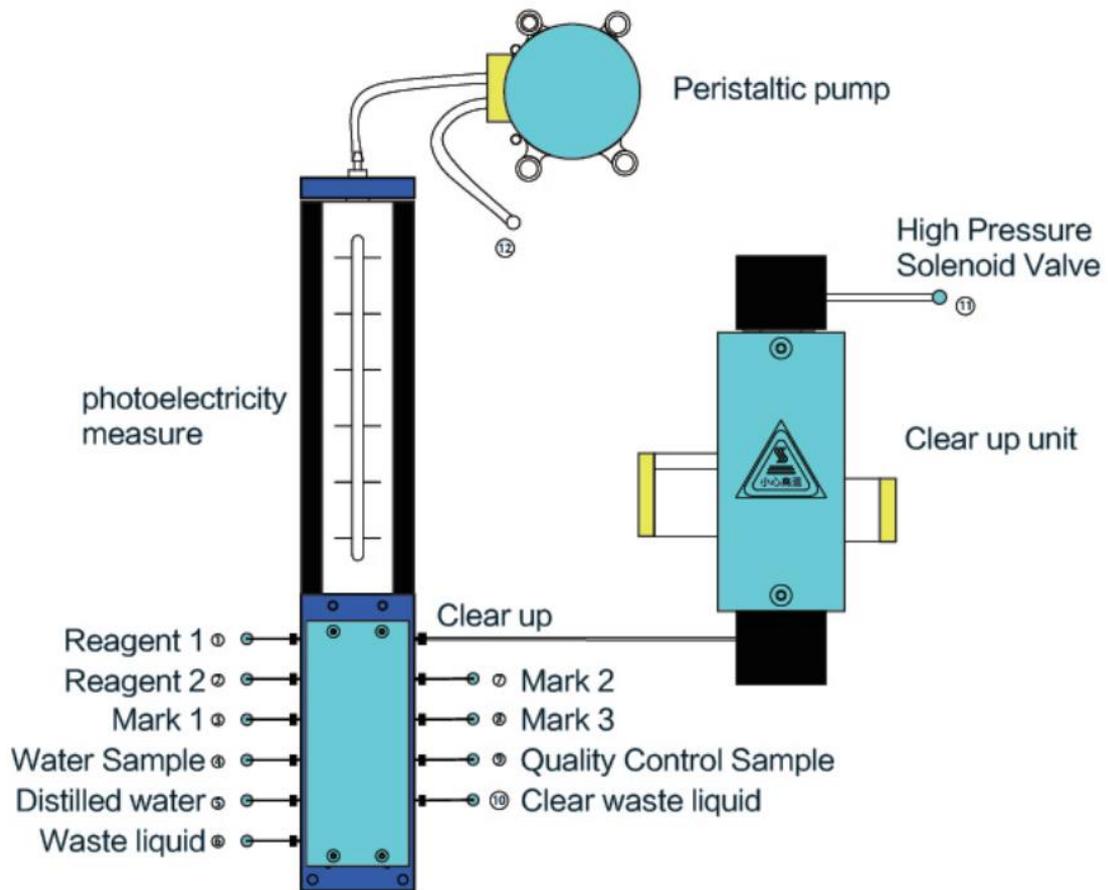
Principle

Basic principle(Potassium dichromate rapid digestion spectrophotometry)

Under strong acid conditions,potassium dichromate is used as oxidant,silver sulfate is used as catalyst,and Mercury(II)sulfate is used as masking agent(masking chloride ion).After the sample is digested at high temperature and high pressure,the absorbance of trivalent chromium is measured at the wavelength of 610nm and converted to the corresponding concentration value.

Parameters	
Measuring range	0~1000 mg/L(Other ranges can be customized)
Indication error	≤±3.0%
Lower limit of measurement	≤15mg/L
Repeatability	≤5.0%
24h high concentration drift	≤5.0%
Analog output	4-20 mA
Digital communication	RS232/RS485
Environmental temperature	5°C-40°C
Environmental humidity	≤90%
Overall dimensions	Length 510mm×Width 410mm×Height 1305mm
Weight	≤60 kg
Power supply	AC(220±10%)V,(50±10%)Hz
Other functions	<ul style="list-style-type: none"> ■ Abnormal alarm,no data loss due to power outage; ■ Automatic alarm when no water sample or reagent is collected; ■ Touch screen display and command input; ■ Abnormal reset,after power outage,the instrument automatically discharges residual liquid and restores its working state; ■ Waste liquid separation; ■ Standard sample verification; ■ Automatic calibration; ■ Automatic range switching;

Work Flow Diagram



Water quality on-line COD analyzer work flow diagram