

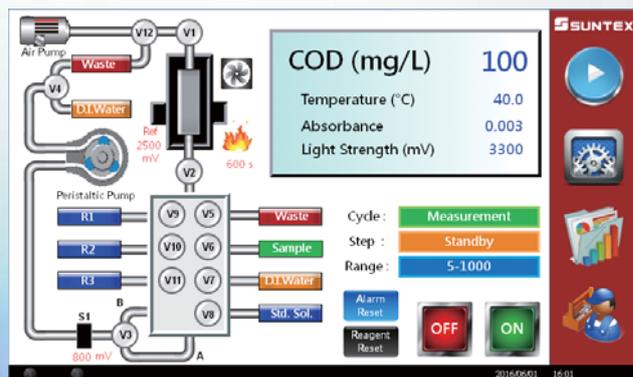
Intelligent Online COD Analyzer

COD-9100



Reliable and User-Friendly for a wide range COD measurement

The All-New COD-9100 is an all range online COD analyzer which is applicable for both inlet and effluent stage of industrial & municipal wastewater treatment, tap water and ground water. The unique liquid dosing design reduces cross contamination risk and ensures the measurement reliability. It also greatly increases the durability of the pump and tubing and thus reduces maintenance workload. The convenient touch screen HMI provides full process information, convenient settings, historical data, trend curve, and allows downloading via a USB drive. The COD-9100 is a state-of-art instrument that optimizes the quality of your online COD measurements.



Convenient touch screen with graphical process procedure illustration and data logger function

Features:

- User-friendly interface with graphical display—quick and intuitive operations
- Human-Machine Interface equipped with graphical procedure illustrations
- Automatic display and estimation of residual reagent volume
- Up to 10,000 sets of historical measurement—downloadable via USB drive
- Programmable settings measuring steps, feed, waste discharge, and heating duration
- Automatic residual reagent discharge and self-clean before starting new measurements
- Unique liquid dosing design—reagents and wastes do not contact the peristaltic pump tubing; increase lifespan and avoid sample cross contamination
- Automatic light intensity compensation enhances measurement stability
- Security protection: real-time leak detection, lockable door, automatic error-shutdown, password protection, and self-analysis
- Program controlled external sample dosing pump—prevents constant running and extends pump lifespan
- Built-in water sample filter
- Recovers and continues previous settings following power outage
- Wheels and detachable units for ease of movement
- Acid-resistant PFA on reagent tubing paths



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Specifications:

Model	COD-9100	
Measuring Mode	COD / ABS / Temperature	
COD Range	0~200 mg/L, 5~1000 mg/L, 50~2500mg/L, 100~5000 mg/L, (500~10,000 mg/L optional) Different ranges can be measured by changing the ratio of reagent to the water sample	
Resolution	0.1 mg/L	
Accuracy	<100 mg/L: ± 10 mg/L >100 mg/L: ± 10 % of measuring values Measuring accuracy can be increased by raising the water sample ratio	
Repeatability	± 5 % of measuring values	
Principle	Closed Rapid Digestion Spectrophotometry---Potassium Dichromate method	
Ambient Conditions	Temperature: 5~50°C; Humidity: <90% (without condensation)	
Display	10 inch of HMI with color touch screen display Transmitter with large LCM display	
Languages	English/ Traditional Chinese/ Simplified Chinese	
Digestion Time	3 ~ 120 minutes (Freely selectable)	
Min. Measuring Time	Approx. 30 minutes (as digestion time is set as 10 minutes)	
Measuring Cycle	Fixed duration of 25~9999 minutes, or self-defined on the hour	
Calibration	Manual or automatic calibration, automatic calibration duration: 1~99 days	
Contact Output	Relay 1 & 2	RELAY ON/OFF contact, 240VAC 0.5A Max. (recommended) Two individual programmable contacts for Hi point, Lo point, measurement, calibration, wash and error shutdown
	Relay 3	RELAY ON/OFF contact, 250VAC 10A Max. (recommended) One control point for sampling pump
Analog Output 1	Isolated DC 0/4~20mA corresponding to COD measurement, max load 500Ω	
Analog Output 2	Isolated DC 0/4~20mA corresponding to COD measurement or temperature, max load 500Ω	
Digital Interface	HMI	Isolated RS-485 interface, with Modbus RTU protocol, offers readouts, calibration data and setup information & error message, and available for remote setting of control parameters
	Transmitter	Isolated RS-485 interface, timing interval outputs COD measurement, temperature, status & time
HMI	1. Remote control via Modbus 2. Detachable and controllable via RS-485	
Transmitter	1. Running programs of transmitter are regulated by HMI 2. While not connected to HMI, works independently based on set programs 3. Directly trigger measurement or emergent shutdown via transmitter under auto or measurement status	
Reagent Depletion	One sets of reagents (1 liter oxidant, 1 liter masking agent, 1 liter catalyst) for proceeding about 500 measurements (Changes depend on measuring cycles and amounts of reagent)	
Piping/solenoid valve	Acid-resistant PFA material applied on all the path reagent goes through	
Data Logger	HMI records measurement data, calibration data and warning data up to 10,000 data sets Download data via USB-A interface	
Power Supply	Specify single-phase power voltage and frequency when ordering	
	01: 220VAC(-15~+10%)/60Hz	02: AC 220VAC(-15~+10%)/50Hz
Power	275W Max	
Dimensions	163cm × 53cm × 46cm (H×W×D)	
Weight	Approx. 66 Kg (without reagents)	
Protection	Human Machine Interface: IP65 (NEMA 4X)	

* The specifications and appearance of the instrument are subject to change without notice.

* **What's included:** Two 10 L empty bottles for DI water and waste, two door keys, 4x M6 L10mm screws

* **Note:** Based on individual customer's need, there is an optional function of requested model for monitoring or operating through wire/ wireless transmission with support of Internet-based devices such as PC, is available upon request.

Optional Accessories:

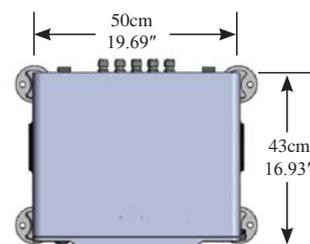
1. Oxidant 1L: 0.12 wt% (~150 mg/L), 0.5 wt% (~500 mg/L), 0.9 wt% (~1,000 mg/L or ~10,000mg/L)
2. Catalyst 1L
3. Masking agent 1L
4. COD Standard Solution 1L: 100 mg/L, 200 mg/L, 500 mg/L, 1000 mg/L



Front door opened



Front dimensions of COD-9100



Top dimensions of COD-9100



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