

[Please refer to page 6 for selection details](#)

## Water Quality Analysis

# Portable Micro Dissolved Oxygen Analyzer DO-C5



### Overview

The handheld micro dissolved oxygen analyzer uses a membrane-type dissolved oxygen sensor, which includes a gold cathode and a ring-shaped silver anode at the bottom, along with a thin semipermeable membrane. The membrane, spread over the sensor, isolates the electrodes from the external environment while allowing gas penetration. During operation, the sensor's base is filled with an electrolyte solution containing a small amount of surfactant to enhance wetting. When a polarization voltage is applied to the electrodes of the polarographic sensor, oxygen penetrates the membrane, reacts at the cathode, and generates an electrical current. The current flowing through the electrodes is directly proportional to the oxygen concentration, maintaining a linear relationship between current and oxygen levels under constant temperature conditions.

### Function Characteristics

LCD Chinese interface display, Chinese menu, easier and more convenient operation.  
Fast measurement response speed and high resolution.  
TFT color screen LCD model, with a clearer and more intuitive display interface.  
Physical measurement, does not consume electrolyte, and does not require regular maintenance.  
Support customization of special functional requirements.

### Application

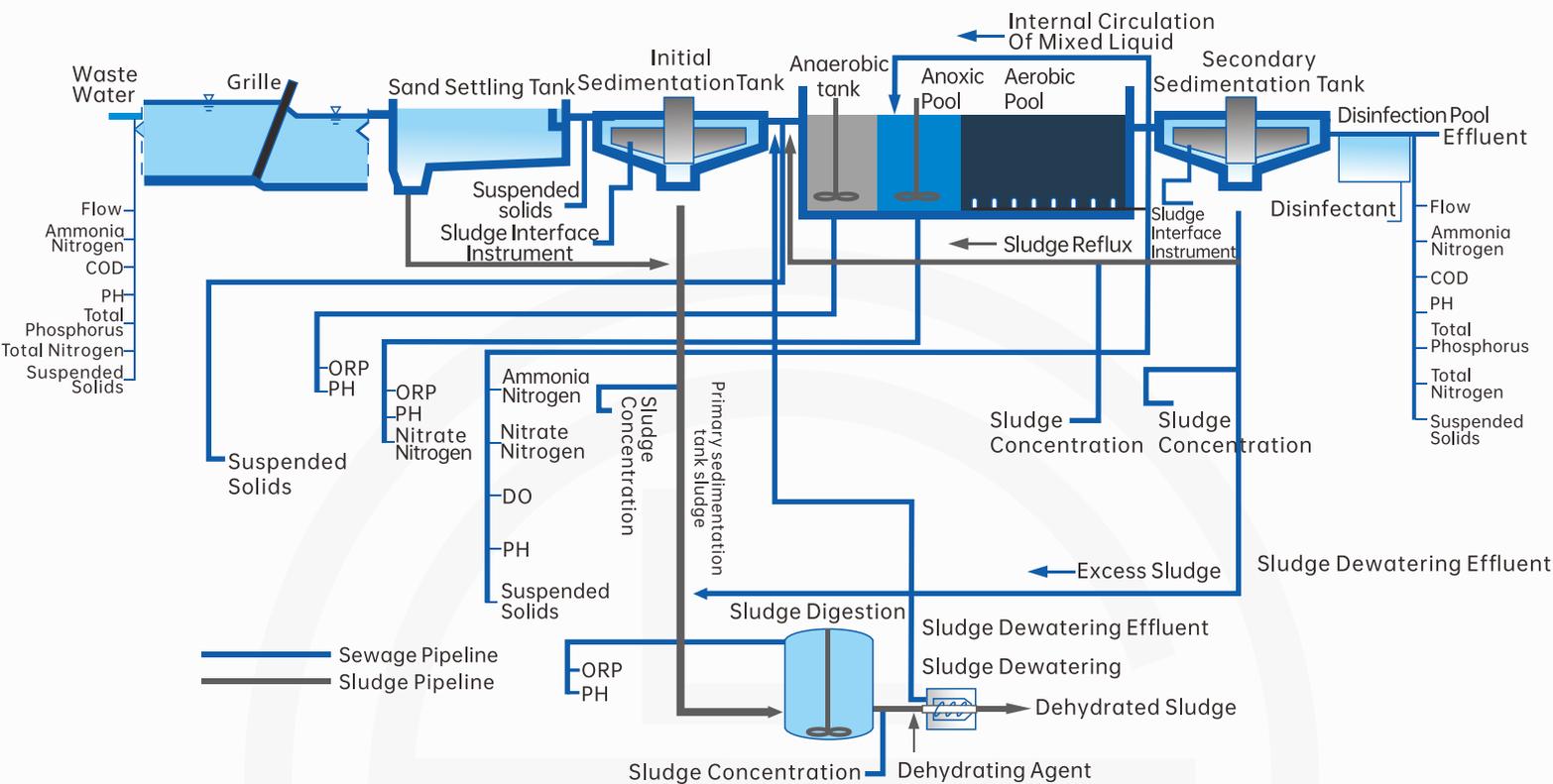
Widely used in industrial and municipal fields, such as water plants, sewage treatment plants, coal washing plants, power plants, mining sites, etc.

## Product Model

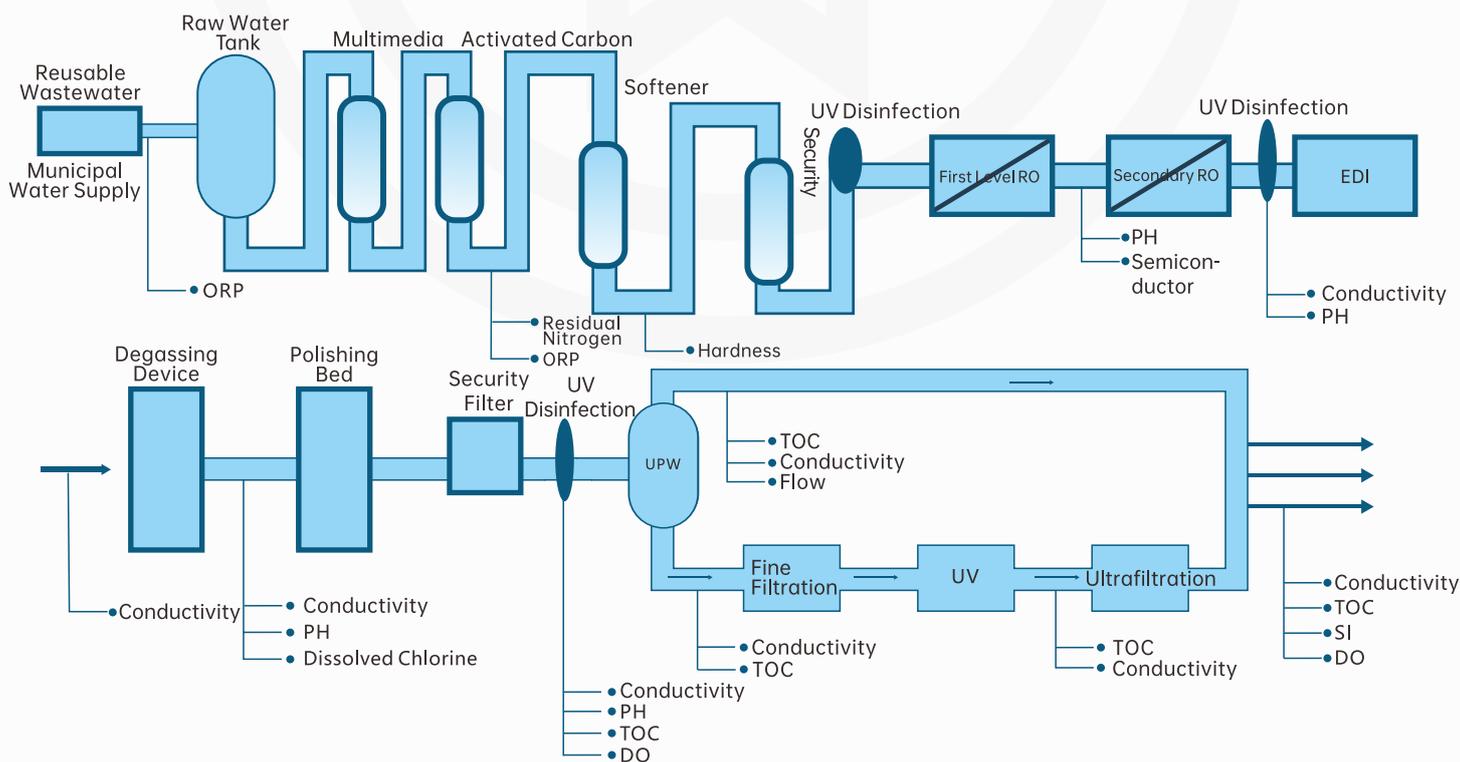
Product Image	
Product Model	DO-C5
Measurement Range	0-20mg/L (0-20ppm) Temperature: 0-45 °C
Resolution	0.01ug/L Temperature: 0.1 °C
Compensation Function	Automatic temperature compensation (0-50 °C)
Response Time	Response time less than 15 seconds
Waterproof Rating	IP65 (host)/IP68 (sensor)
Display Precision	± 2% calibration accuracy
Input Power	Lithium battery power supply
Storage Temperature	0 to 60 °C
Operating Temperature	0 to 60 °C (non freezing)
Pressure Range	≤0.3MPa
Cable Length Piece	10m standard integral cable (customizable extension)



# Sewage Treatment Process Diagram

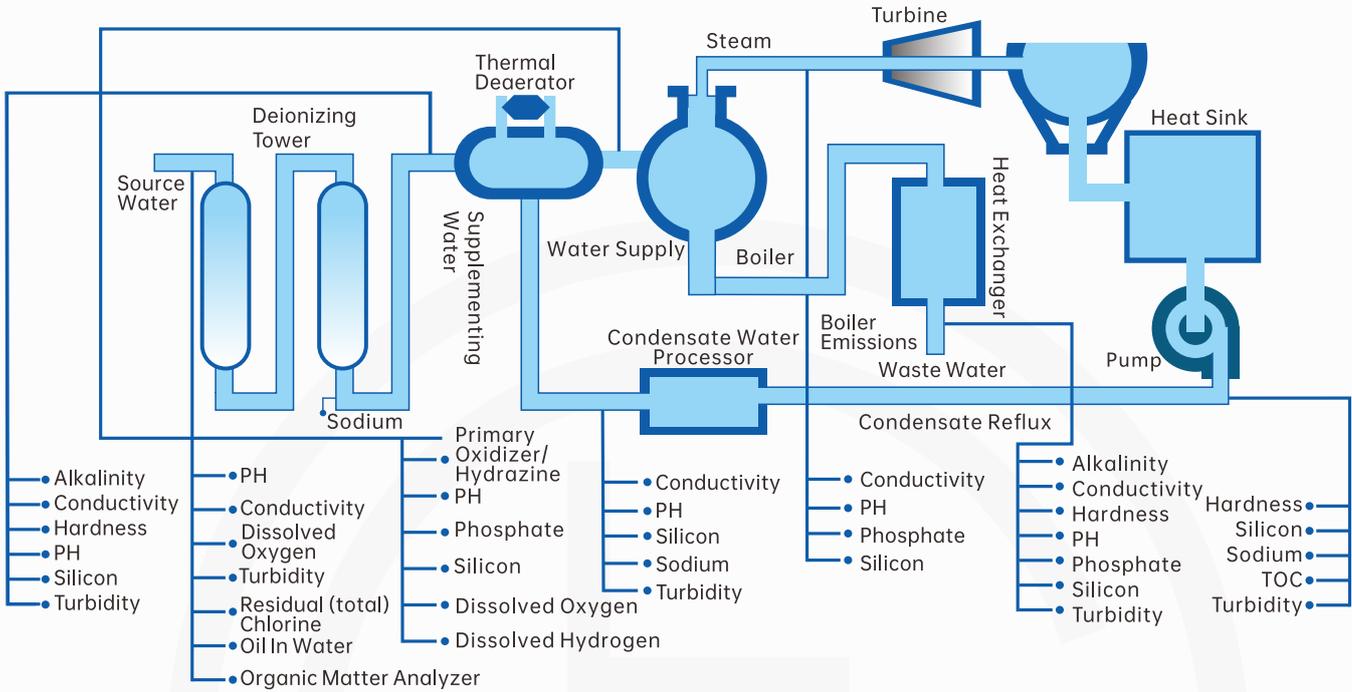


# Electronic Industry Water/Wastewater Reuse Process and Water Quality Monitoring Plan

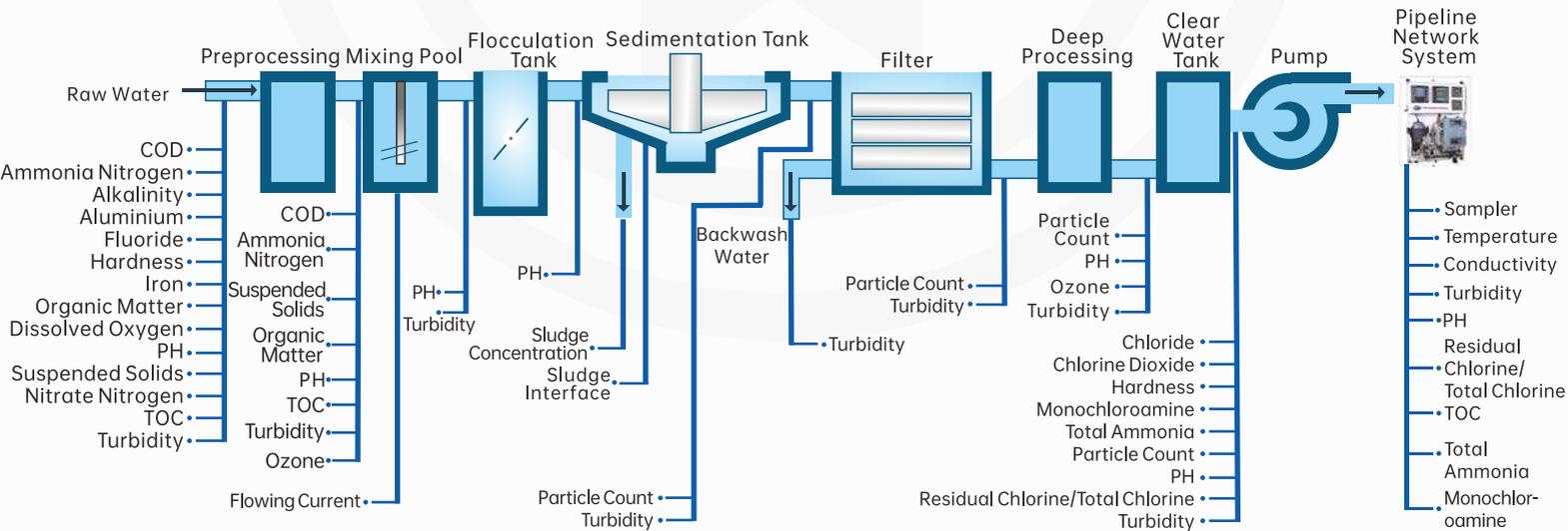




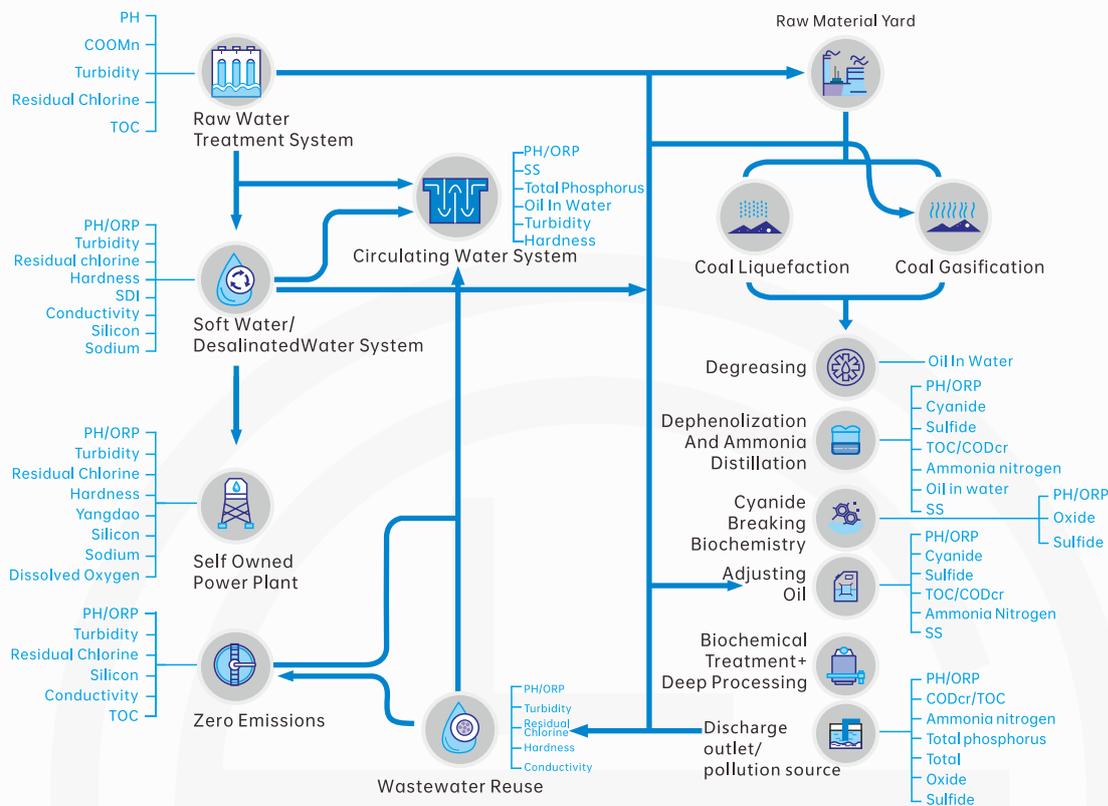
# Boiler Water Flow Diagram



# Drinking Water Treatment Process Diagram

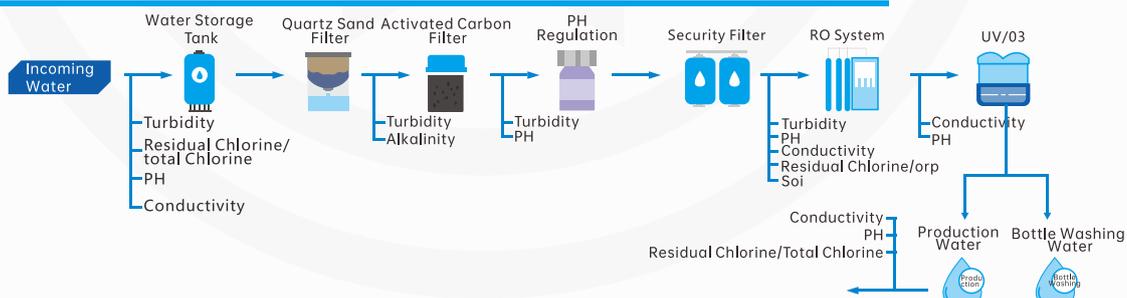


# Petrochemical Environmental Water Treatment Process Diagram

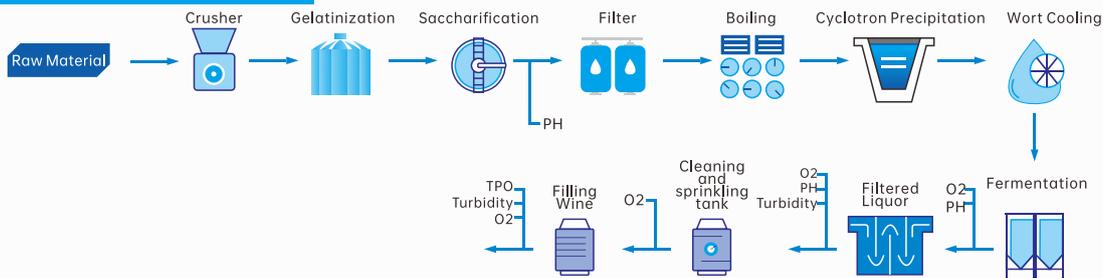


# Wastewater Treatment Process And Water Quality Monitoring Plan For The Beer And Beverage Industry

## Process Flow Of Beer Beverage Raw Water Pretreatment



## Beer Water Usage Process



## Selection and composition of handheld trace dissolved oxygen analyzer

Example Of Selection **DO-C5**

C	5	A	R	K	O	C	A	H	F
1	2	3	4	5	6	7	8	9	

1. Electrode Type	<b>C5</b>	Fluorescent dissolved oxygen electrode
	<b>T()</b>	Other electrodes
2. Installation Form	<b>A</b>	split-type
3. Measurement Range	<b>R</b>	Dissolved oxygen: 0.01ug/L-20.00mg/L Temperature: 0-45 °C
	<b>T()</b>	Other measurement ranges
4. Resolution	<b>K</b>	Dissolved oxygen: 0.01ug/L Temperature: 0.1 °C
	<b>T()</b>	Other resolutions
5. Output Signal	<b>O</b>	4-20mA
	<b>P</b>	4-20mA+RS485
	<b>Q</b>	4-20mA+relay
	<b>T()</b>	Other output signals
6. Power Supply	<b>C</b>	Lithium battery power supply
7. Electrode Material	<b>A</b>	PPS
	<b>T()</b>	Other materials
8. Cable Length	<b>H</b>	10m
	<b>I</b>	5m
	<b>G</b>	15m
	<b>T()</b>	Other lengths
9. Protection Level	<b>F</b>	IP68
	<b>T()</b>	Other protection levels

**Explanation:**

DO-C5 handheld micro dissolved oxygen analyzer, using fluorescent dissolved oxygen electrode, with a split installation form, measuring range of dissolved oxygen: 0.01ug/L-20.00mg/L; Temperature: 0-45 °C, resolution dissolved oxygen: 0.01ug/L; Temperature: 0.1 °C, output signal 4-20mA, powered by battery, electrode material PPS, cable length 10m, protection level IP68.

**Product Certification**

Compliance and approval; The Ludwig water quality analyzer meets key standards and certifications for process measurement technology; To ensure the highest reliability in such settings;