

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

Water Quality Analysis Handheld Dissolved Oxygen Analyzer DO-C4



Overview

The handheld dissolved oxygen analyzer mainly works based on the principles of fluorescence or electrochemical methods. Fluorescence method: The sensor emits blue light to excite the fluorescent substance, and dissolved oxygen quenches the red light it emits. The oxygen concentration is calculated by detecting changes in fluorescence intensity or lifetime. Electrochemical method: Oxygen molecules are reduced at the cathode through a thin film, generating a current signal proportional to the oxygen concentration. Both methods perform temperature compensation to ensure accurate results.

Function Characteristics

LCD Chinese interface display, Chinese menu, easier and more convenient operation.
TFT color screen LCD model, with a clearer and more intuitive display interface.
Optoelectronic isolation 4-20mA current output (optional).
RS-485 communication interface (optional).
Dual relay upper and lower limit alarm output (optional).
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.

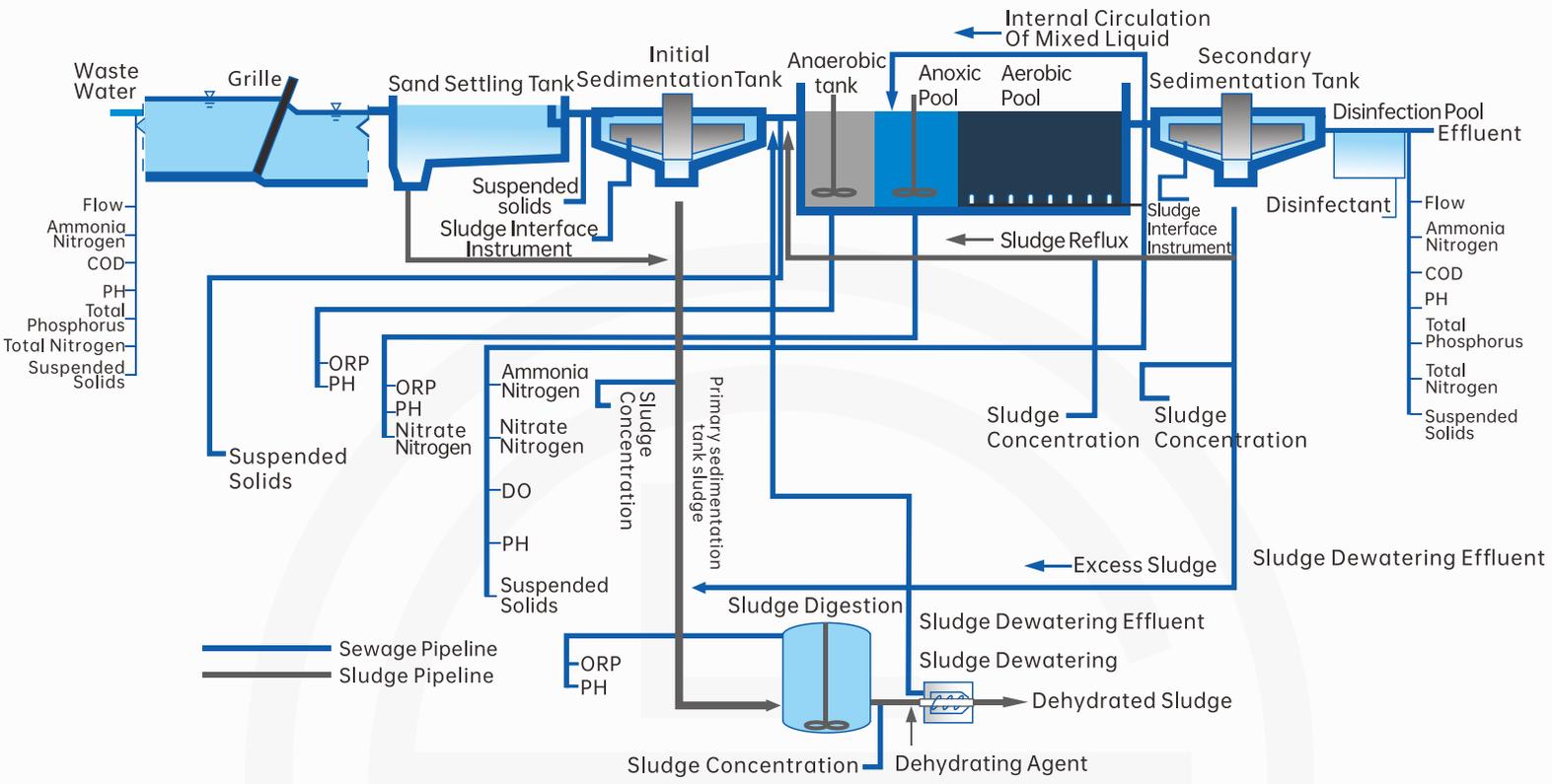


Product Model

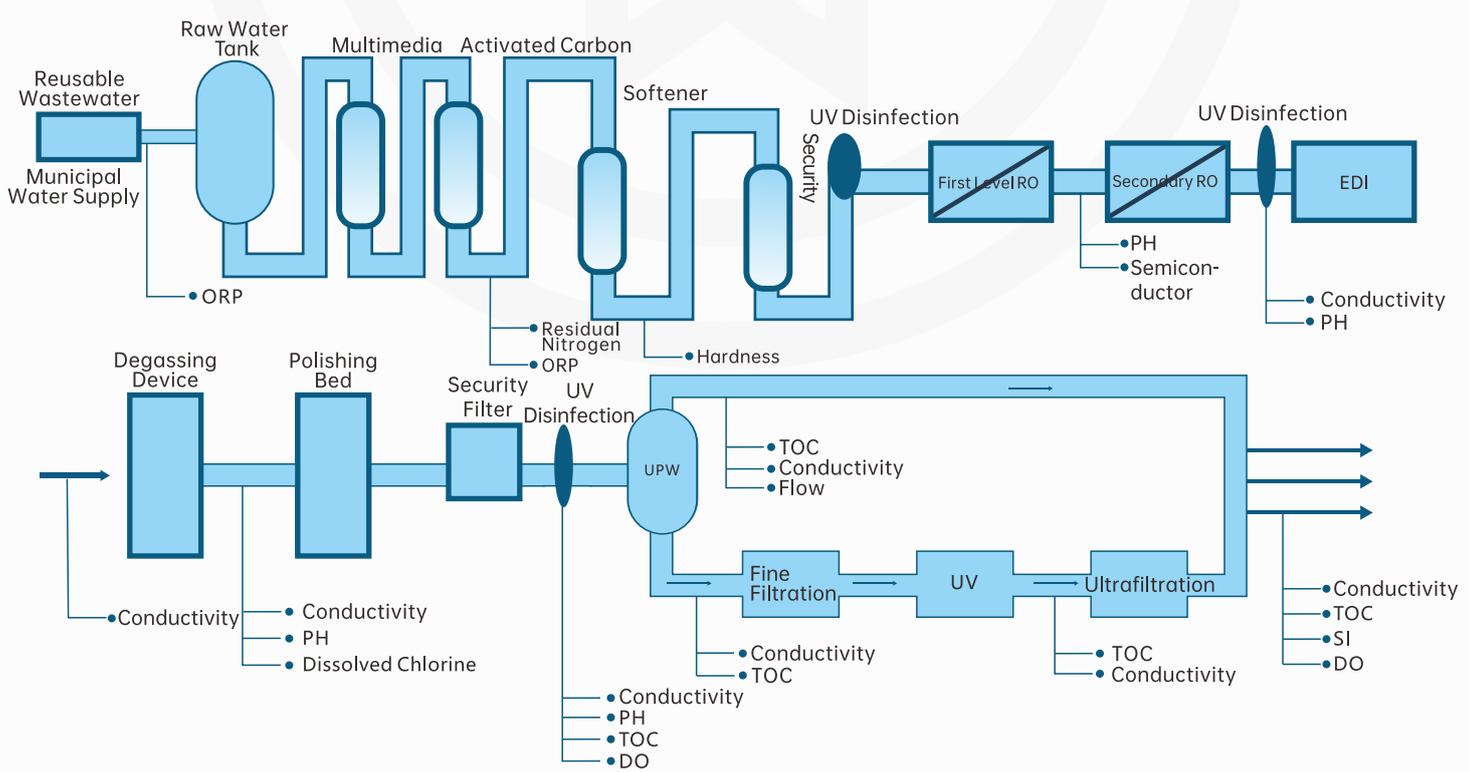
| | |
|-----------------------|------------------------------------------------------------------------------------|
| Product Image |  |
| Product Model | DO-C4 |
| Measurement Range | 0-20mg/L (0-20ppm) Temperature: 0-45 °C |
| Waterproof Rating | IP65 (host)/IP68 (sensor) |
| Display Precision | ± 2% calibration accuracy |
| Input Power | DC: 24V ± 20%, input power ≥ 6W |
| Output Signal | MODBUS RS485 4~20mA |
| Storage Temperature | -15 to 60 °C |
| Operating Temperature | 0 to 45 °C (non freezing) |
| Pressure Range | ≤0.3MPa |
| Cable Length | 10m standard integral cable (customizable extension) |



Sewage Treatment Process Diagram

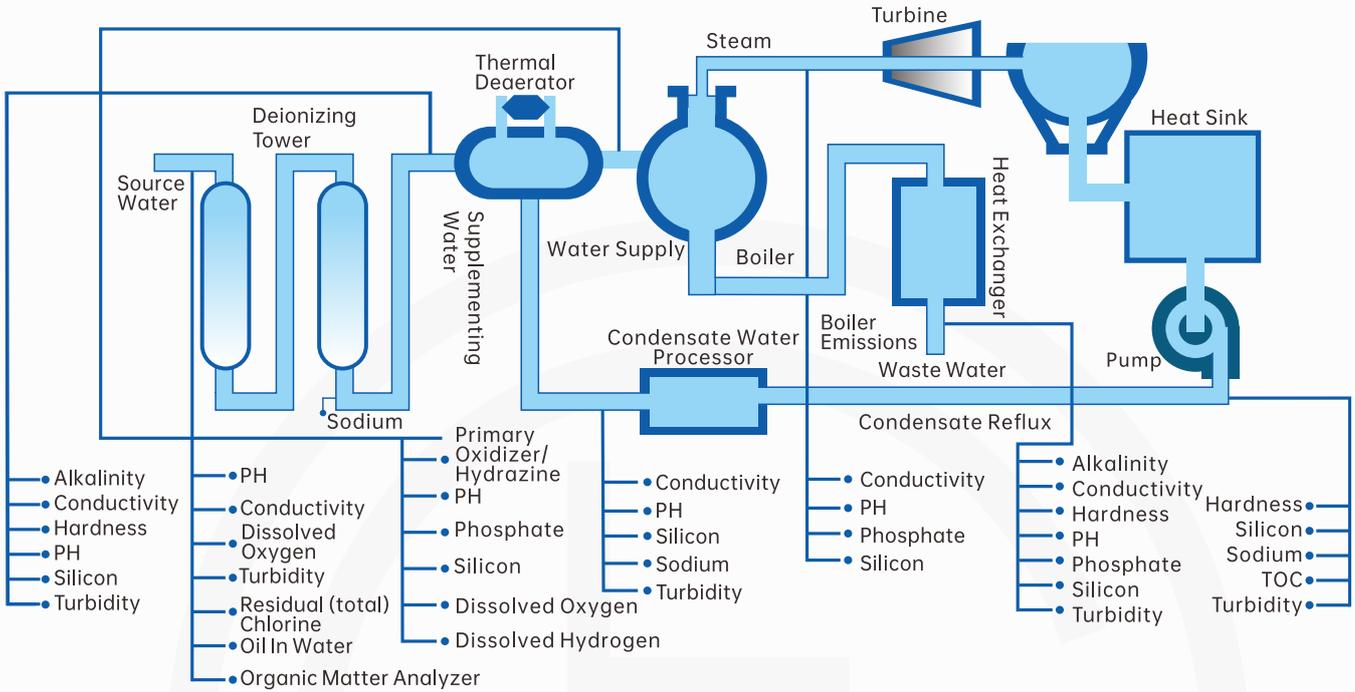


Electronic Industry Water/Wastewater Reuse Process and Water Quality Monitoring Plan

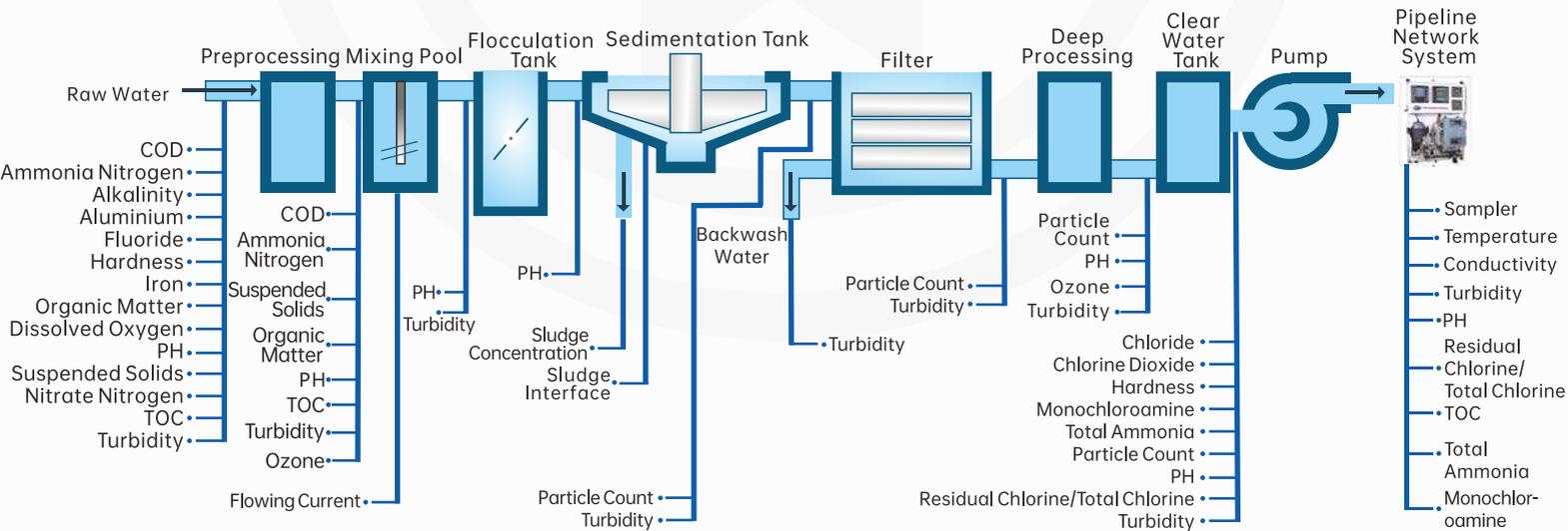




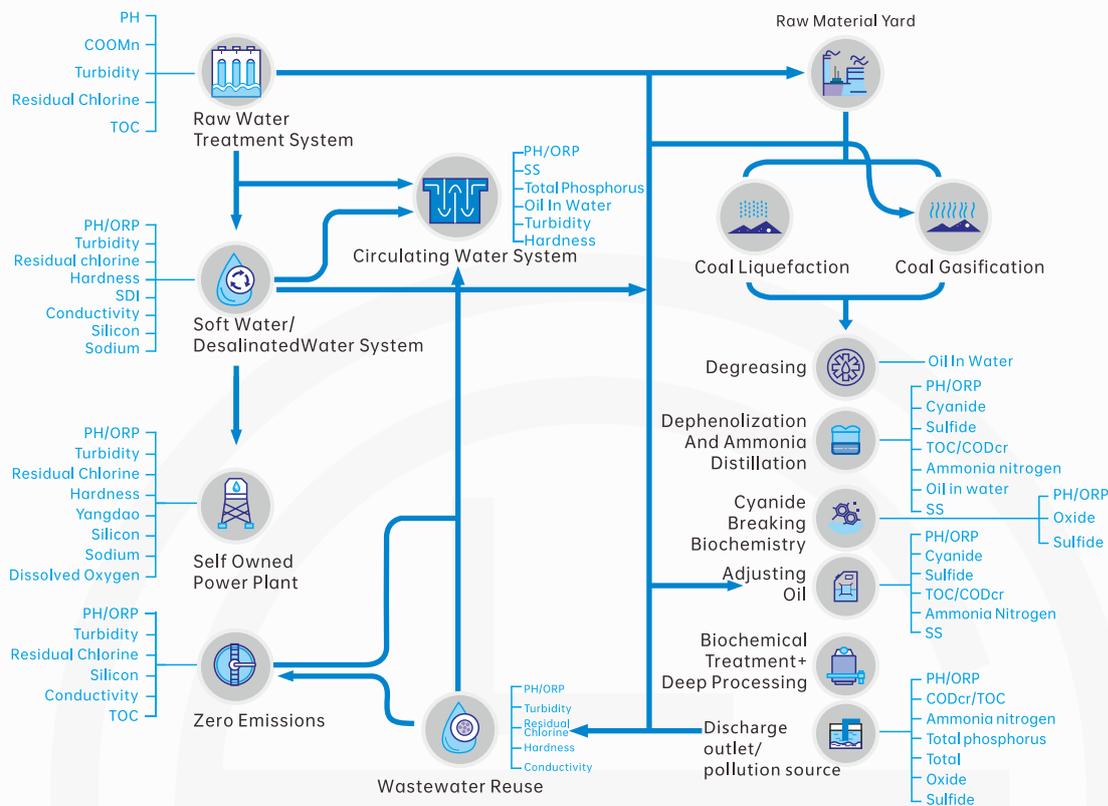
Boiler Water Flow Diagram



Drinking Water Treatment Process Diagram

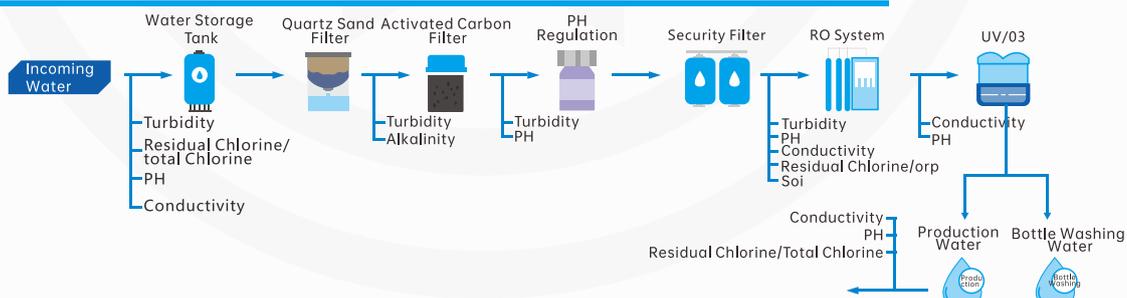


Petrochemical Environmental Water Treatment Process Diagram

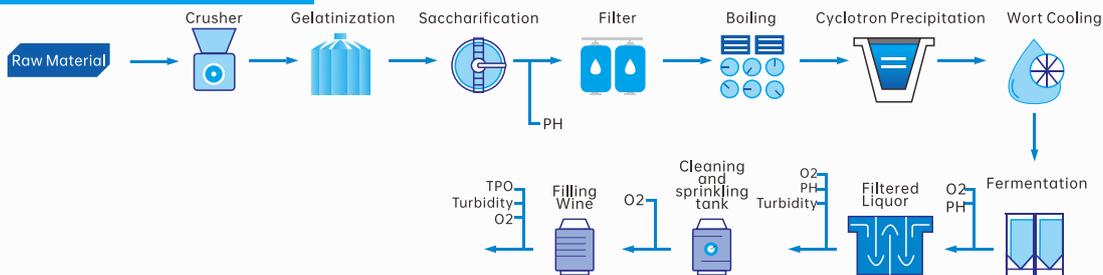


Wastewater Treatment Process And Water Quality Monitoring Plan For The Beer And Beverage Industry

Process Flow Of Beer Beverage Raw Water Pretreatment



Beer Water Usage Process



Selection and composition of handheld dissolved oxygen analyzer

Example Of Selection **DO-C4**

| | | | | | | | | |
|----|---|---|---|---|---|---|---|---|
| C4 | A | R | K | O | C | A | H | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

| | | |
|-----------------------|------------|-----------------------------------------------------------|
| 1. Electrode Type | C4 | Fluorescent dissolved oxygen electrode |
| | T() | Other electrodes |
| 2. Installation Form | A | Split-type |
| 3. Measurement Range | R | Dissolved oxygen: 0-20mg/L (0-20ppm) Temperature: 0-45 °C |
| | T() | Other measurement ranges |
| 4. Resolution | K | Dissolved oxygen: 0.01mg/L Temperature: 0.1 °C |
| | T() | Other resolutions |
| 5. Output Signal | O | 4-20mA |
| | P | 4-20mA+RS485 |
| | Q | 4-20mA+relay |
| | T() | Other output signals |
| 6. Power Supply | C | Lithium battery power supply |
| 7. Electrode Material | A | stainless steel |
| | T() | Other materials |
| 8. Cable Length | H | 10m |
| | I | 5m |
| | G | 15m |
| | T() | Other lengths |
| 9. Protection Level | F | IP68 |
| | T() | Other protection levels |

Explanation:

DO-C4 handheld dissolved oxygen analyzer, using fluorescent dissolved oxygen electrode, with a split installation form, measuring range of dissolved oxygen: 0.01mg/L-20.00mg/L; Temperature: 0-45 °C, resolution dissolved oxygen: 0.01ug/L; Temperature: 0.1 °C, output signal 4-20mA, battery powered, electrode material stainless steel, 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;