

Please refer to page 6 for selection details

## Water Quality Analysis

# Chromaticity Analyzer SD-N1



### Operational Principle

A colorimeter is an instrument used to measure the color and color difference reflected by objects (paper, etc.), ISO brightness (blue light whiteness R457), and fluorescence whiteness of fluorescent whitening materials, CIE whiteness (Gantt whiteness W10 and color deviation TW10), ceramic whiteness, building materials and non-metallic mineral product whiteness, Hunter System Lab and Hunter (Lab) whiteness, yellowing, sample opacity, transparency, light scattering coefficient and light absorption coefficient, and ink absorption value. Widely used in industries such as papermaking, printing, ceramics, chemicals, textile printing and dyeing, building materials, grain, and salt production.

### Functional Characteristics

- Dual high impedance preamplifier: high input impedance, anti noise, strong anti-interference ability;
- Multiple calibration methods;
- Human machine dialogue: The menu operation is simple, and users can operate it according to the prompts on the screen;
- Multi parameter display on the same screen: simultaneously displaying acid and alkali concentration values, temperature values, and working status;
- Software setting output method: 4-20mA output parameter type;
- Free setting of measurement range and alarm upper and lower limits; Upper and lower limit exceeding alarm prompt;
- Three sets of relay control switches, with adjustable hysteresis control range;
- Self cleaning switch setting, setting cleaning time and interval;
- Data storage, operation logs, and printing functions;
- After sales service: Provide technical support and contact information for after-sales service to users;
- Maintenance is very simple, it is recommended to calibrate once a month;
- Adopting multiple calibration methods to ensure measurement accuracy;
- Chinese and English menus are optional.

### Product Application

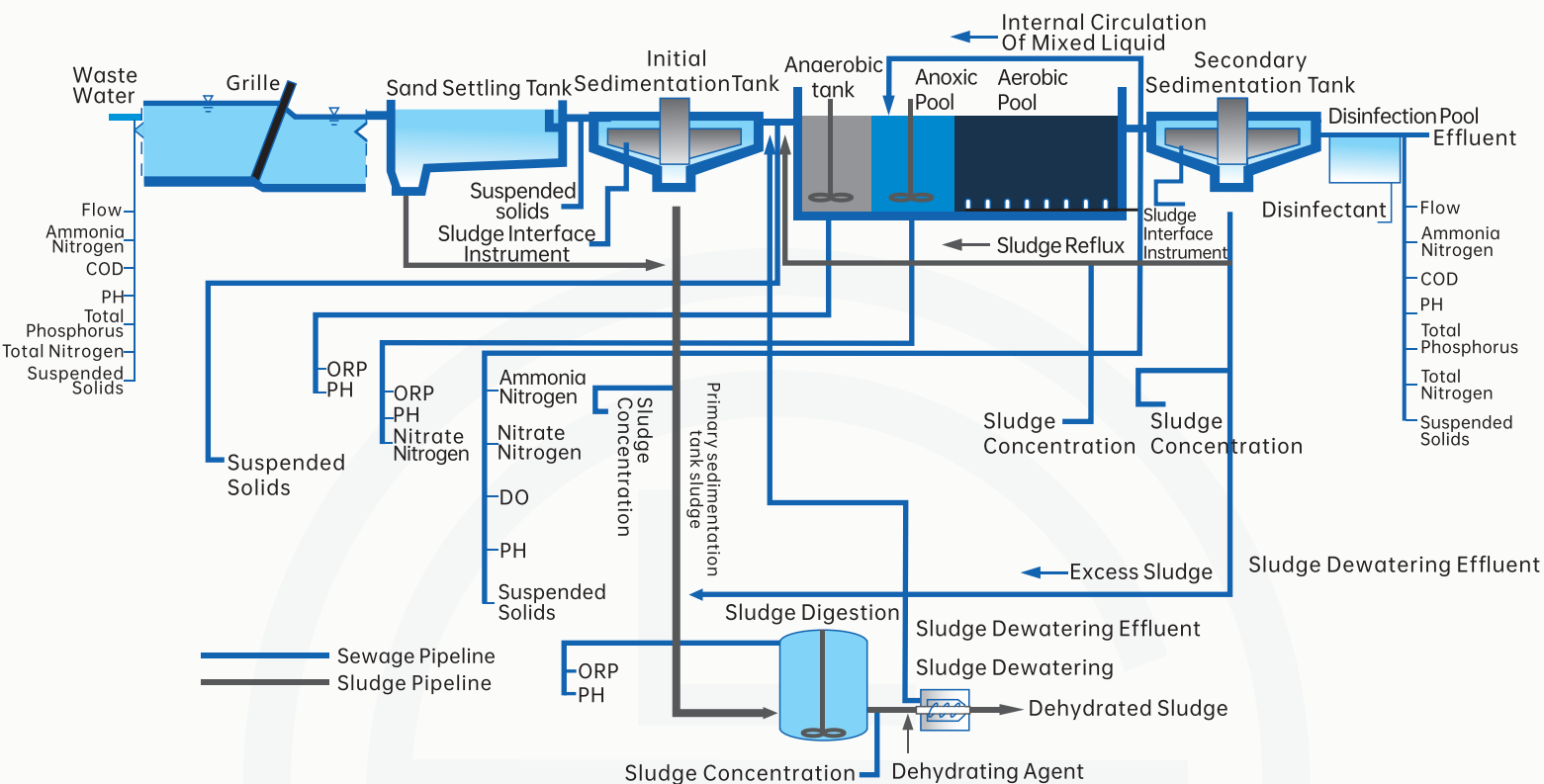
It can be widely used for chromaticity measurement in power plants, purified water plants, water treatment plants, domestic sewage treatment plants, beverage plants, environmental protection departments, industrial water use, liquor industry, pharmaceutical industry, epidemic prevention departments, hospitals and other departments.

## Product Model

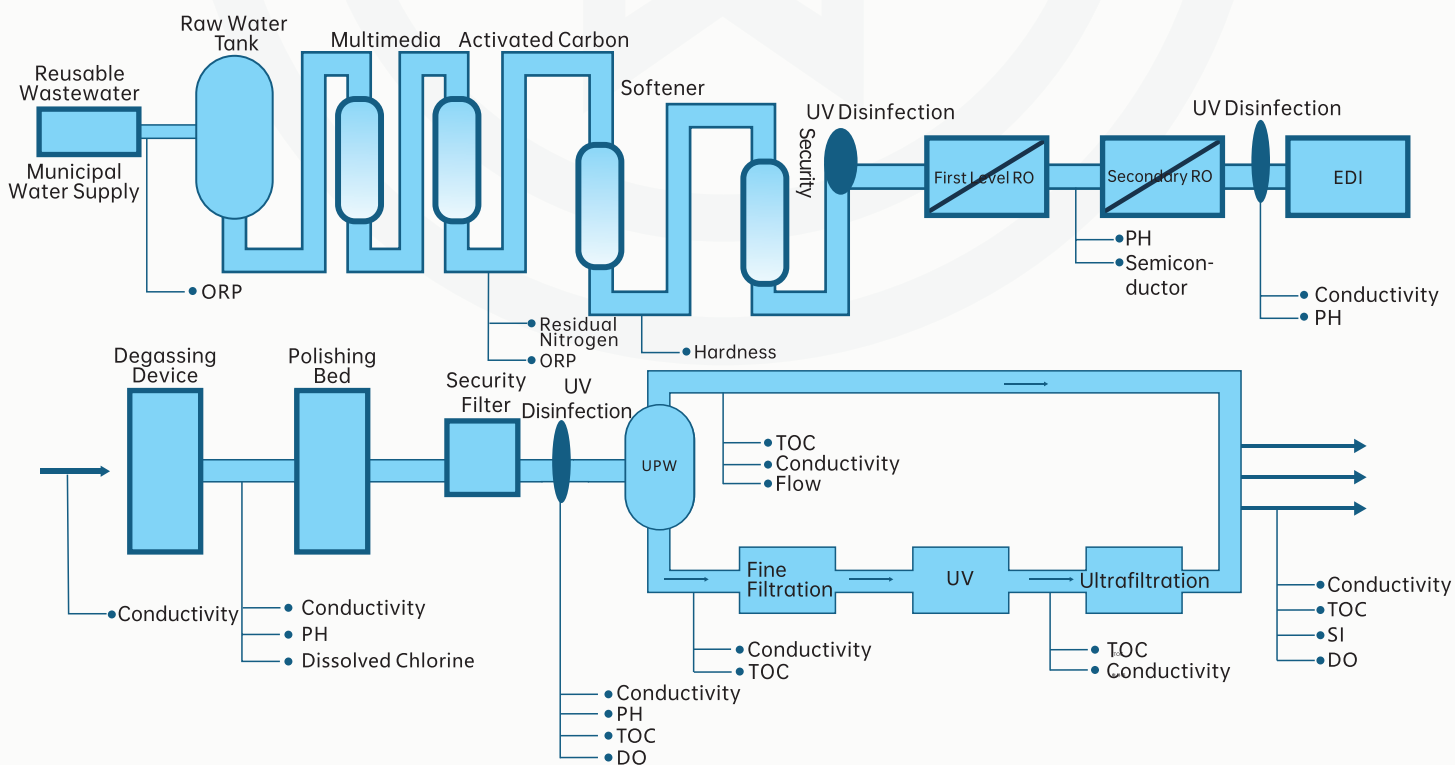
Model	SD-N1	
Product Diagram		
Display	4.3-inch LCD color screen	3.2 inch LCD screen
Detection method	Optical method	Optical method
Measuring range	1-100°	1-100°
Resolution	0.01	0.01
Temperature range	-10-50°C	-10-50°C
Using water depth	IP68, 10mMax	IP68, 10mMax
Power supply	12-24VDC	12-24VDC
Output signal	RS485	RS485
Material	304, PP, Quartz glass	304, PP, Quartz glass
Size	Length: 200mm, diameter: 48mm	Length: 200mm, diameter: 48mm
Response time	T90, < 30s	T90, < 30s
Quality	0.82kg	0.5kg
External dimensions	180x157x84.5mm	96X96X125mm
Installation opening	Plate mounted 138x138mm (wall mounted)	Plate mounted 92x92mm
Usage conditions	Temperature 0-45 °C, humidity not exceeding 85%, no electromagnetic field interference	Temperature 0-45 °C, humidity not exceeding 85%, no electromagnetic field interference
Electrode selection	Analog signal, digital signal electrode	Analog signal electrode
Data function	Data storage, operation logs, Bluetooth printing	-

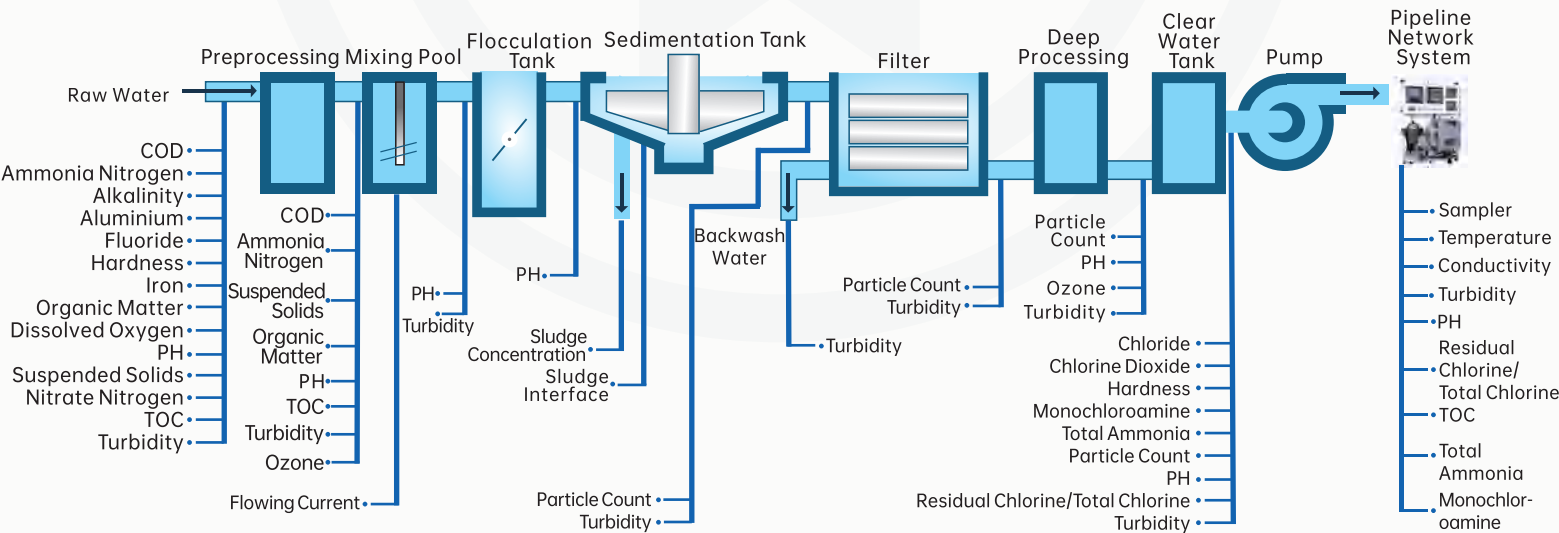
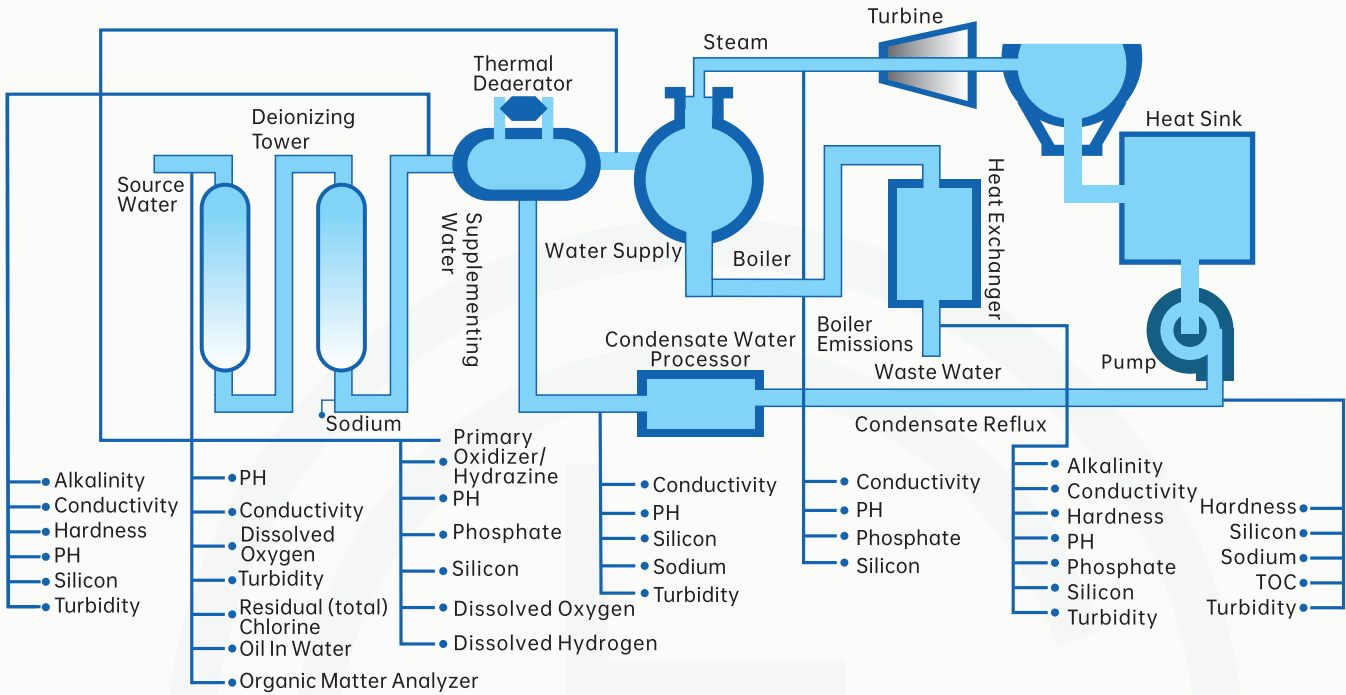


# Sewage Treatment Process Diagram

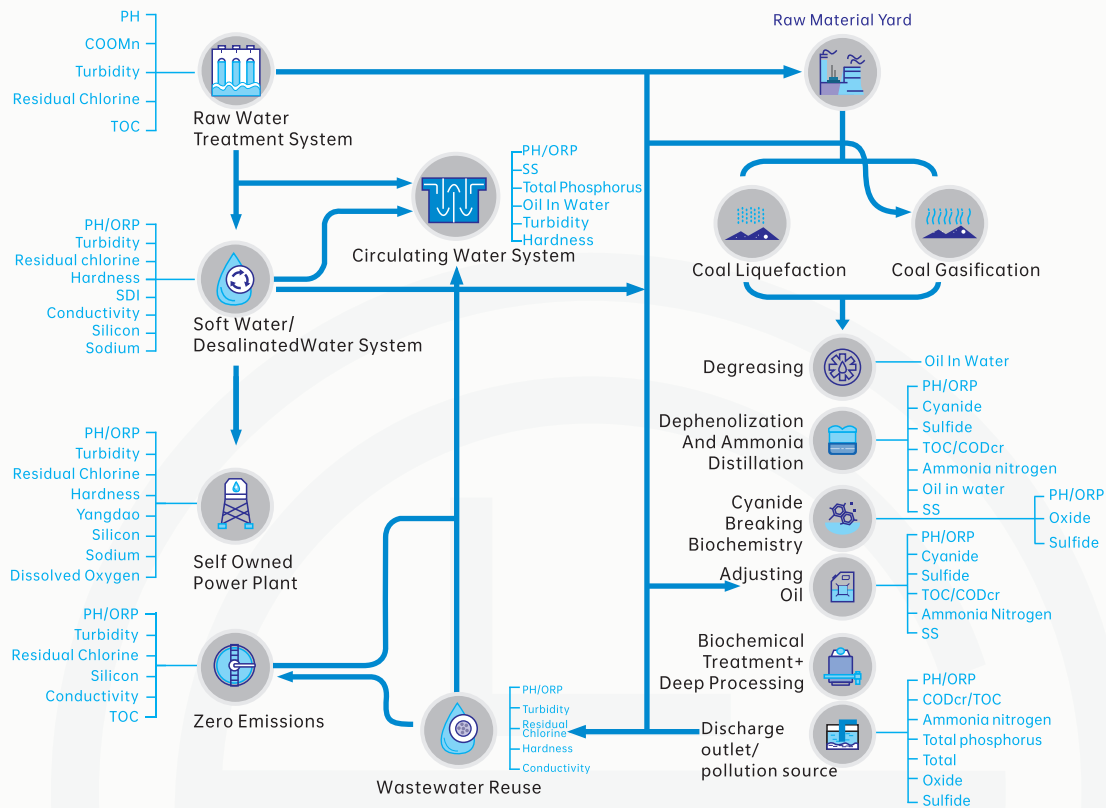


# Electronic Industry Water/Wastewater Reuse Process and Water Quality Monitoring Plan



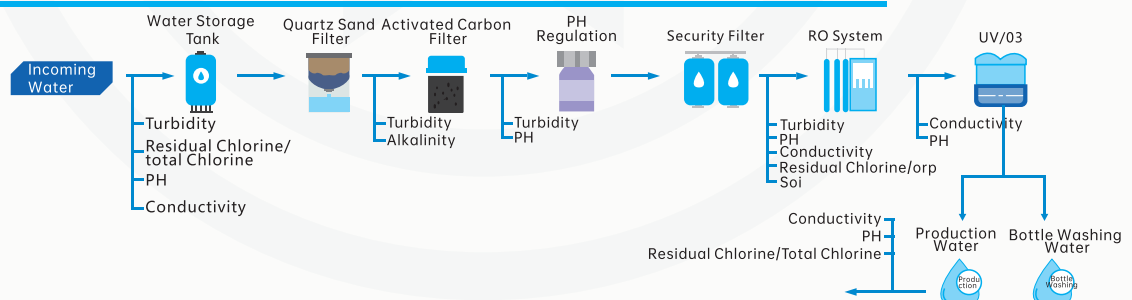


# Petrochemical Environmental Water Treatment Process Diagram

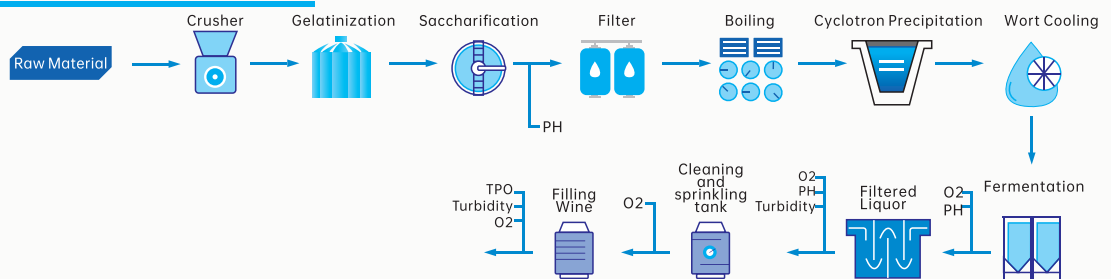


# Wastewater Treatment Process And Water Quality Monitoring Plan For The Beer And Beverage Industry

## Process Flow Of Beer Beverage Raw Water Pretreatment



## Beer Water Usage Process



## SD-N1 Selection Composition

 Selection example **SD-N1**

1	A	2	G	3	N	4	U	5	V	6	A	7	S	8	F	9	H
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1.Model	<b>A</b>	SD-N1
2.Display Size	<b>G</b>	4.3-inch LCD color screen
	<b>H</b>	3.2-inch LCD screen
3.Measurement ranges	<b>N</b>	1-100 °
	<b>T()</b>	Other measurement ranges
4.resolutions	<b>U</b>	0.01
	<b>T()</b>	Other resolutions
5. Output signals	<b>V</b>	4-20mA
	<b>U</b>	4-20mA+RS485
	<b>W</b>	4-20mA+RS232
	<b>T()</b>	Other output signals
6.Materials	<b>A</b>	304
	<b>B</b>	PP
	<b>C</b>	Quartz glass
	<b>T()</b>	Other materials
7.Source	<b>S</b>	24VDC
	<b>V</b>	220VAC
8.Protection levels	<b>E</b>	IP65
	<b>F</b>	IP68
	<b>T()</b>	Other protection levels
9.Lengths	<b>H</b>	10m
	<b>I</b>	5m
	<b>G</b>	15m
	<b>T()</b>	Other lengths

## Explanation:

SD-N1 chromaticity analyzer, equipped with a 4.3-inch LCD color screen, range of 1-100 °, resolution of 0.01, output signal of 4-20mA, material 304, power supply of 24VDC, protection level of IP68, cable length of 10m.

## 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;