

Please refer to page 6 for selection details

Water Quality Analysis

Lon Analyzer LA-W1

(Ammonia nitrogen, nitrate nitrogen, negative ions, hardness tester calcium ions, chloride ions, sodium ions, potassium ions, lead ions, copper ions, hydrogen ions, cadmium ions)



Operational Principle

Ion analyzer is an instrument used to simultaneously detect fluoride ions, nitrate ions, pH, and water hardness (Ca²⁺, Mg²⁺ ions) in samples. Domestic instruments can simultaneously detect fluoride ions, nitrate ions, pH, water hardness (Ca²⁺, Mg²⁺ ions), K⁺, and Na⁺ ions.

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

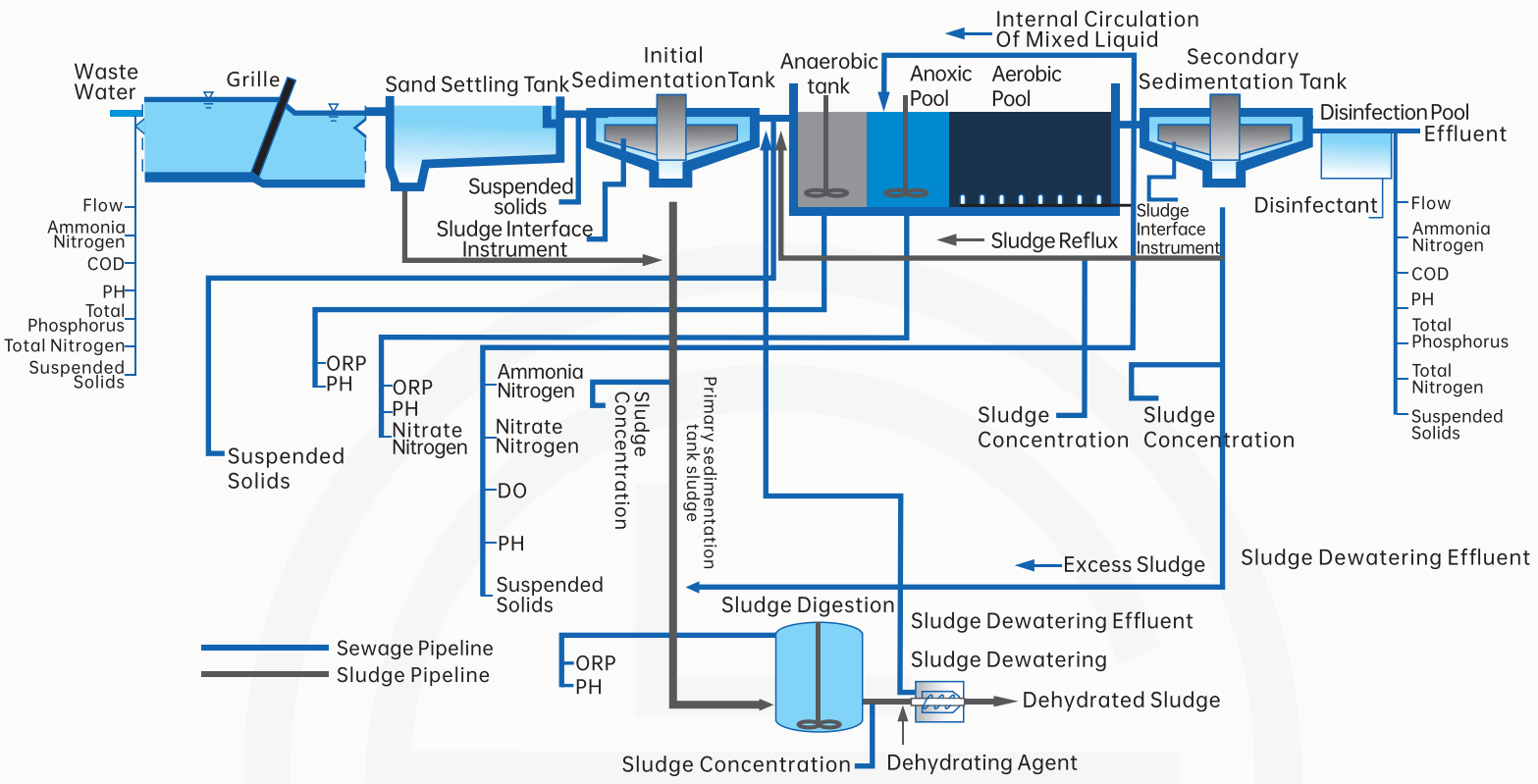
Widely used in the analysis of environmental samples, including anions and cations in surface water, drinking water, rainwater, domestic and industrial wastewater, acid precipitates, and atmospheric particulate matter, as well as trace impurities in water and reagents related to the microelectronics industry.

Product Model

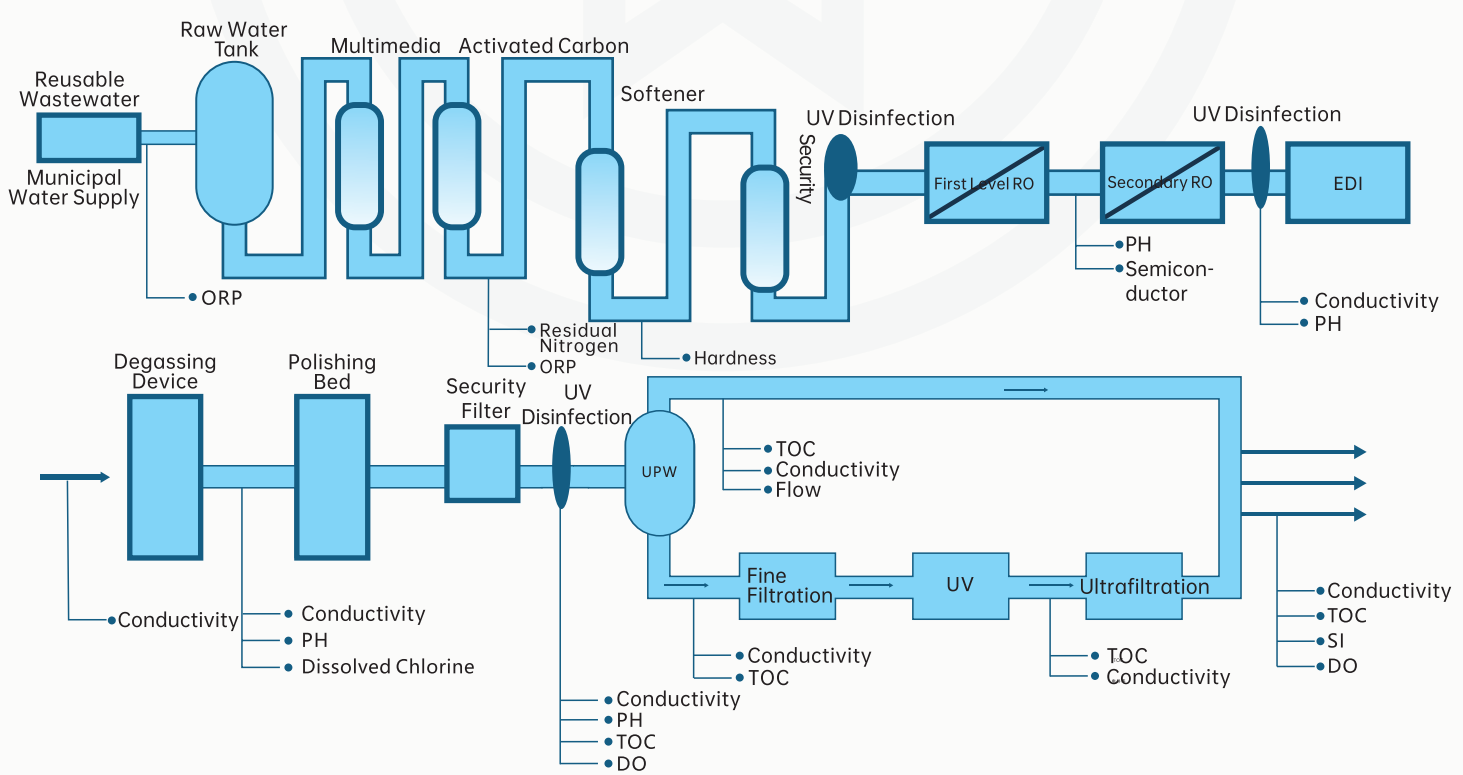
Model	LA-W1	
Product Diagram		
Display	4.3-inch LCD color screen	3.2-inch LCD screen
Detection method	Ion electrode method	Ion electrode method
Measuring range	Hardness tester (calcium ion): 0-1000mg/L Ammonia nitrogen 0-1000mg/L, nitrogen sales: 0-1000mg/L Cyanide ion 0-200mg/L, cadmium ion 0-1000mg/L Fluoride ion: 0-100mg/L, potassium ion: 0-1000mg/L Lead ion 0-1000mg/L, copper ion 0-100mg/L Chlorine ion: 0-1000mg/L, sodium ion: 0-100mg/L	Hardness tester (calcium ion): 0-1000mg/L Ammonia nitrogen 0-1000mg/L, nitrogen sales: 0-1000mg/L Cyanide ion 0-200mg/L, cadmium ion 0-1000mg/L Fluoride ion: 0-100mg/L, potassium ion: 0-1000mg/L Lead ion 0-1000mg/L, copper ion 0-100mg/L Chlorine ion: 0-1000mg/L, sodium ion: 0-100mg/L
Temperature range	0-50°C	0-50°C
Using water depth	IP68, 10mMax	IP68, 10mMax
Source	12-24VDC	12-24VDC
Output signal	RS485	RS485
Material	ABS	ABS
Installation thread	Up and down NPT3/4	Up and down NPT3/4
Size	Length: 250mm, Diameter: 37mm, Weight: 0.82kg	Length: 250mm, Diameter: 37mm, Weight: 0.82kg
Response time	T90, < 30s	T90, < 30s
Power supply	85-260VAC/50-60Hz or 24VDC	85-260VAC/50-60Hz或24VDC
Power	≤3W	≤3W
Quality	0.82kg	0.82kg
Installation opening	Plate mounted 138X138mm (wall mounted)	96X96X125mm
Electrode material	304, Quartz glass	304, Quartz glass
Response time	T90, < 30s	T90, < 30s
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
Data function	Data storage, operation logs, Bluetooth printing	-

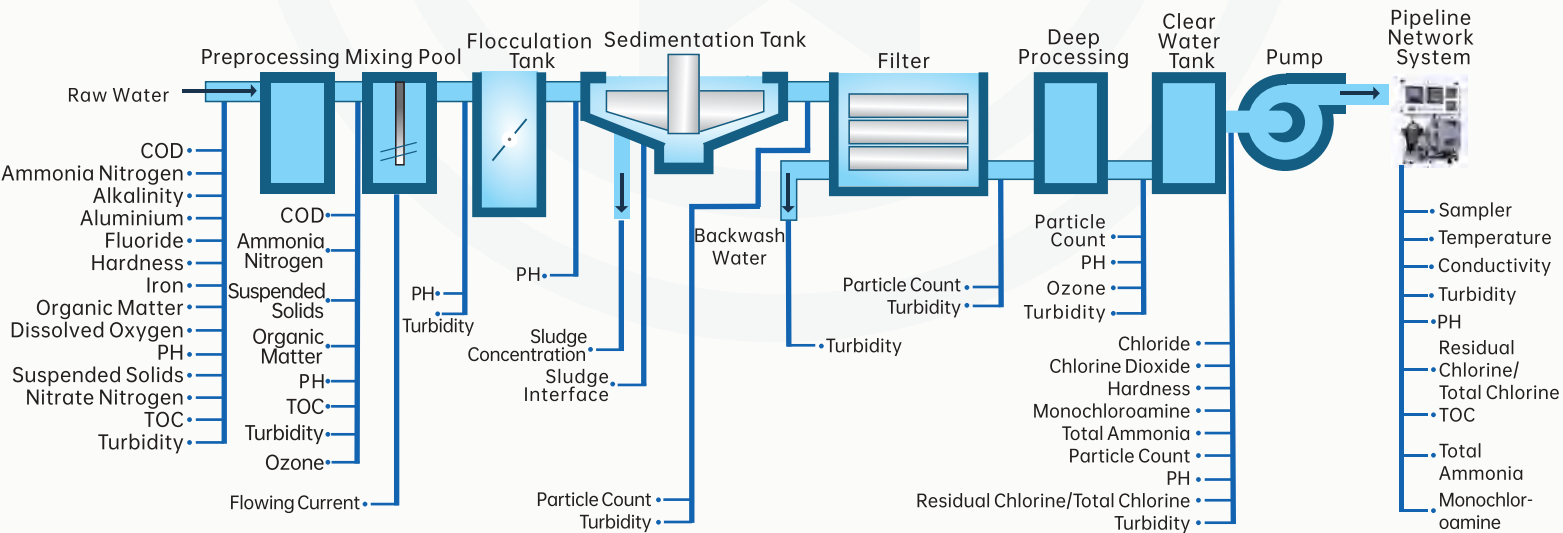
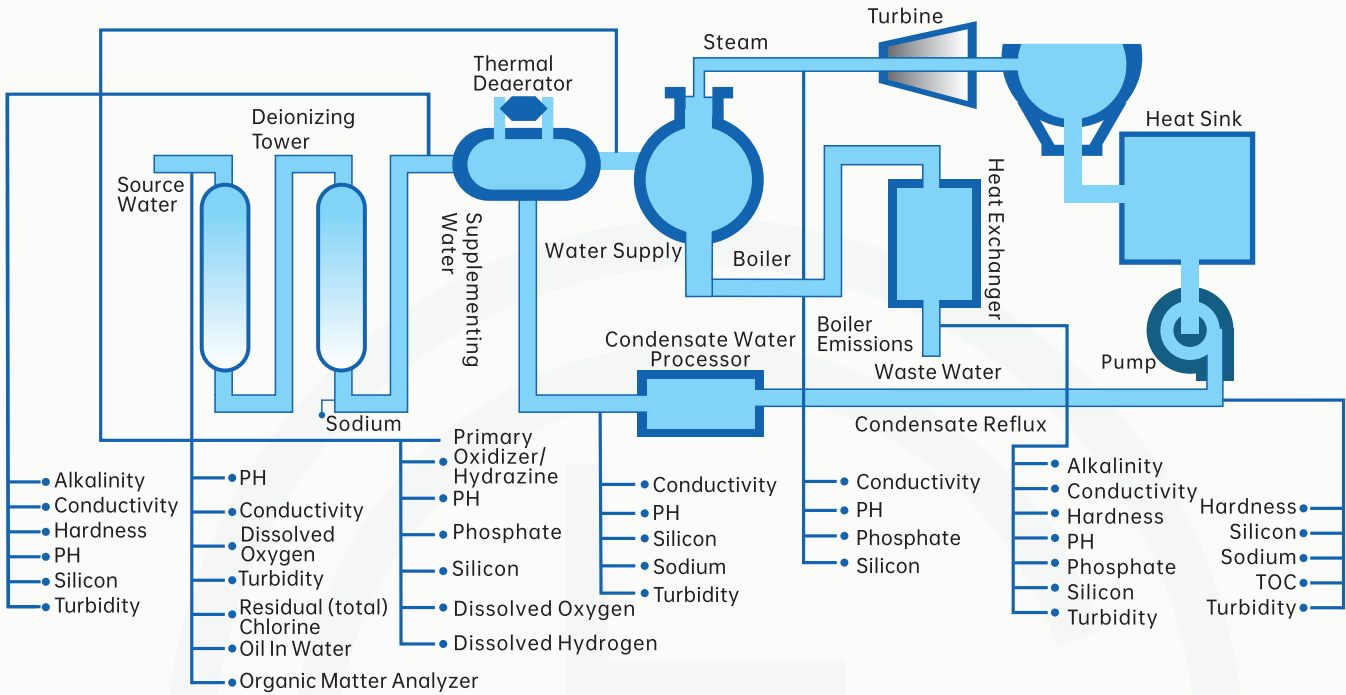


Sewage Treatment Process Diagram

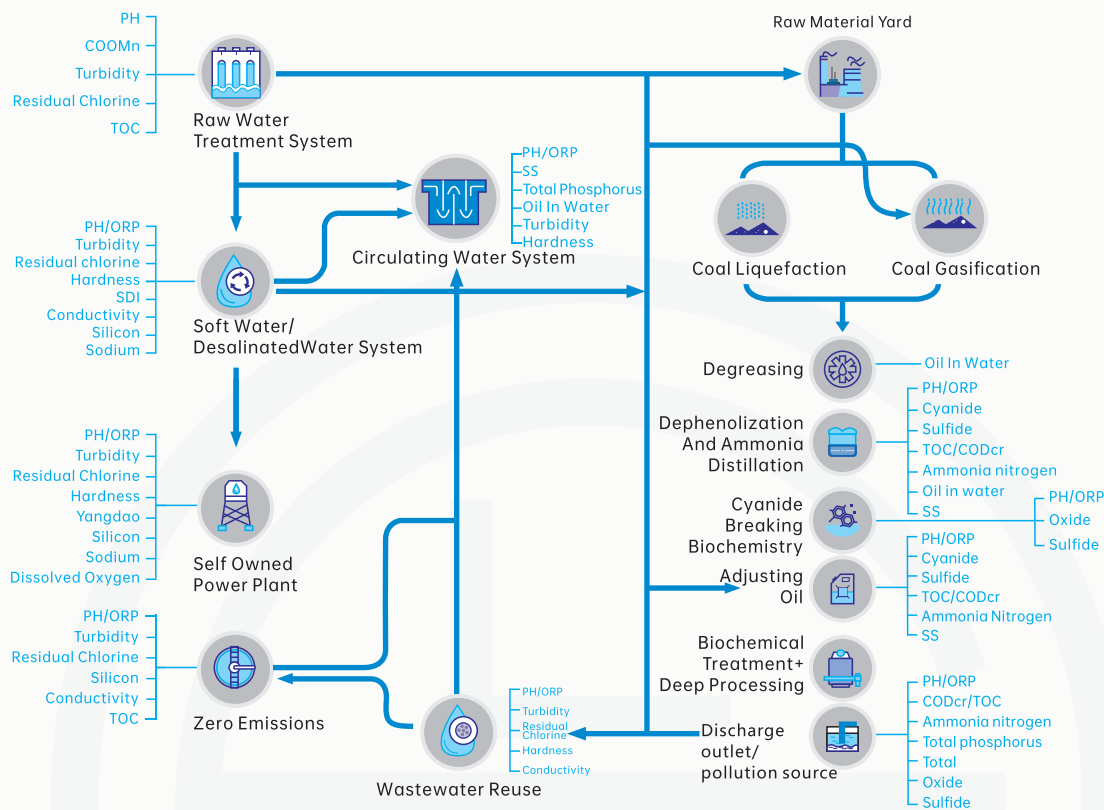


Electronic Industry Water/Wastewater Reuse Process and Water Quality Monitoring Plan



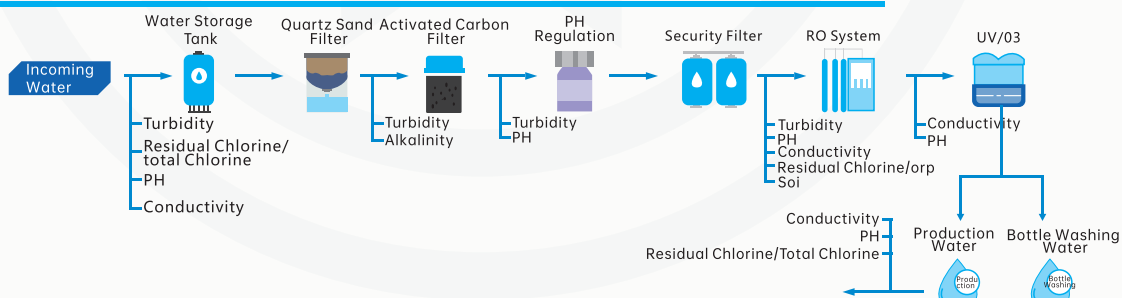


Petrochemical Environmental Water Treatment Process Diagram

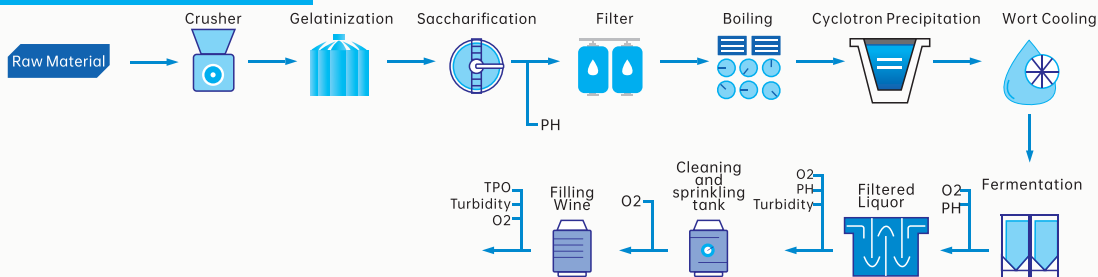


Wastewater Treatment Process And Water Quality Monitoring Plan For The Beer And Beverage Industry

Process Flow Of Beer Beverage Raw Water Pretreatment



Beer Water Usage Process



LA-W1- Selection Composition

Selection example **LA-W1**

L	G	A	U	X	B	S	F	H	N
1	2	3	4	5	6	7	8	9	10

1. Model	L	LA-W1
2. Display screen size	G	4.3-inch LCD color screen
	H	3.2-inch LCD screen
3.Measurement ranges	A	Ammonia nitrogen: 0-1000mg/L
	B	Nitrogen sales: 0-1000mg/L
	C	Fluoride ion 0-100mg/L
	D	Hardness tester (calcium ion): 0-1000mg/L
	E	Chlorine ion: 0-1000mg/L
	F	Sodium ion: 0-100mg/L
	L	Potassium ion: 0-1000mg/L
	M	Lead ion: 0-1000mg/L
	N	Copper ion: 0-100mg/L
	O	Cyanide ion: 0-200mg/L
	P	Cadmium ion: 0-1000mg/L
T()	Other measurement ranges	
4.Temperature ranges	U	0-50 °
	T()	Other temperature ranges
5.Output signals	V	4-20mA
	X	4-20mA+RS485
	W	4-20mA+RS232
	T()	Other output signals
6.Materials	B	ABS
	T()	Other materials
7.Source	S	24VDC
	V	220VAC
8.Protection level	E	IP65
	F	IP68
	T()	Other protection level
9.Cable length	H	10m
	I	5m
	G	15m
	T()	Other length
10. Installation interface	N	Up and down NPT3/4
	T()	Other installation interface

Explanation:

LA-W1 ion analyzer, equipped with a 4.3-inch LCD color screen, measuring range ammonia nitrogen: 0-1000mg/L, temperature range 0-50 °, output signal 4-20mA+RS485, material ABS, power supply 24VDC, protection level IP68, cable length 10m, installation interface up and down NPT3/4.

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;