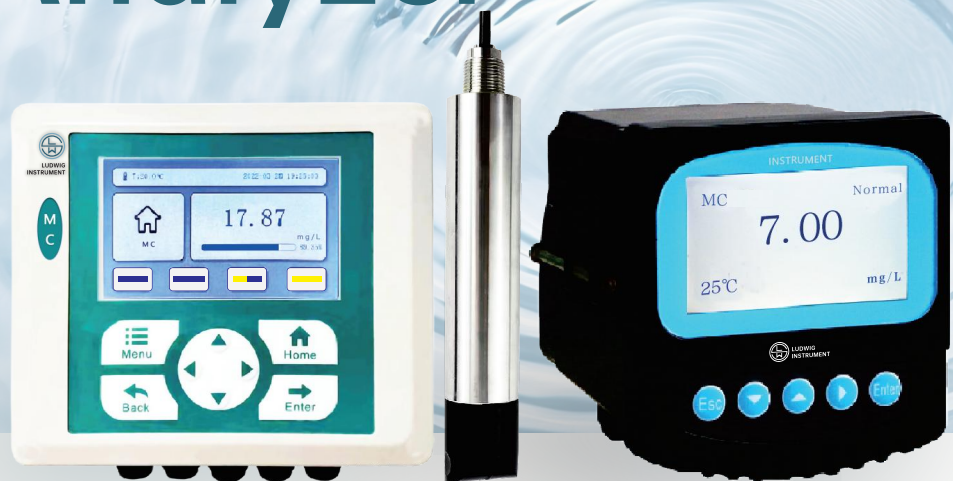


[Please refer to page 7 for selection details](#)

Water Quality Analysis

Suspended Solids Analyzer MC



Operational Principle

The light waves sent by the infrared sensor transmitter are absorbed, reflected, and scattered by the object being measured during transmission, and only a small portion of the light can shine on the receiver. The transmittance of the transmitted light is proportional to the concentration of the suspended object being measured. The concentration of the suspended object is calculated by measuring the transmittance of the transmitted light.


Functional Characteristics

- Fully intelligent, multifunctional, with high measurement performance and strong environmental adaptability;
- Simultaneous display of multiple parameters, including height, output current, time, and relay status;
- Two 4-20mA transmission outputs, relay high and low alarm control outputs;
- RS485, RS232 upload function, printing function (optional);
- Can install independent storage cards with data recording, storage, and export functions;
- Multiple signal options;
- Maintenance is very simple, with calibration every three months;
- Adopting multiple calibration methods to ensure measurement accuracy;
- Chinese and English menus are optional (optional);
- Self set password: Users can set or modify their own password to prevent unauthorized personnel from entering and causing misoperation;

Product Application

Widely used for measuring suspended solids in reservoirs, rivers, hydraulic engineering, urban water supply, sewage treatment, farmland irrigation, water management and water resources.

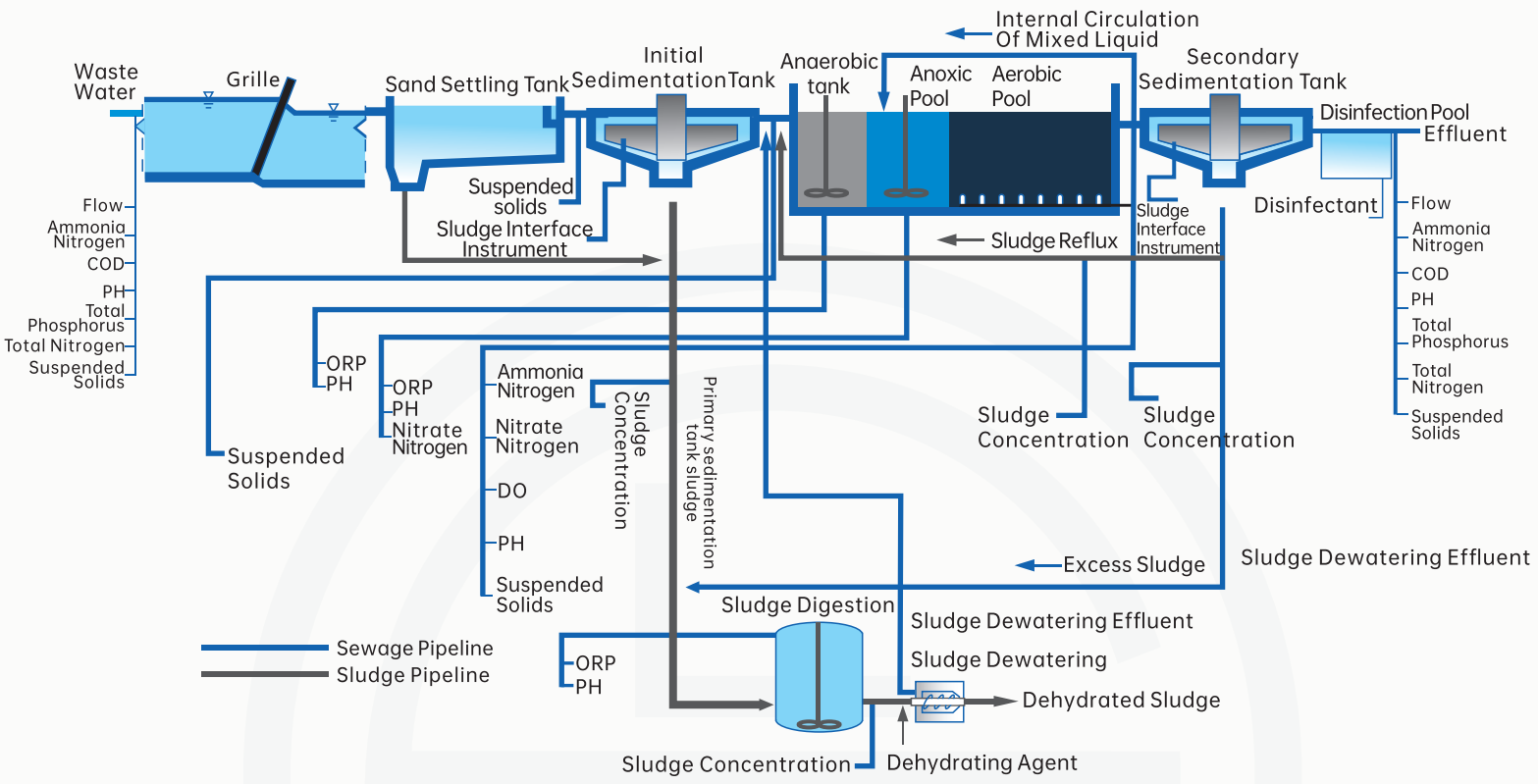
Product Model

Model	MC	
Product Diagram		
Range	0-20mg/L, 0-400mg/L, 0-4000mg/L or expanded as required	0-20mg/L, 0-400mg/L, 0-4000mg/L or expanded as required
Resolving power	0.01mg/L	0.01mg/L
Error	±3%FS	±3%FS
Display method	LCD	LCD
Measurement unit	Mg/L	Mg/L
Light source	Infrared/Laser	Infrared/Laser
Repeatability	±1.0%	±1.0%
Ambient temperature	-20~50 °C; Relative humidity: not more than 90%	-20~50 °C; Relative humidity: not more than 90%
Output	4-20mA, switch quantity, RS485, RS232, printing, GPRS, etc	4-20mA, switch quantity, RS485, RS232, printing, GPRS, etc
Power supply	85-260VAC/50-60Hz or 24VDC	85-260VAC/50-60Hz or 24VDC
Power	≤ 3W	≤ 3W
Quality	0.82kg	0.5kg
External dimensions	180x157x84.5mm	96 x 96 x 125mm
Installation opening	Plate mounted 138x138mm (wall mounted)	Plate mounted 92 x 92mm
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	-

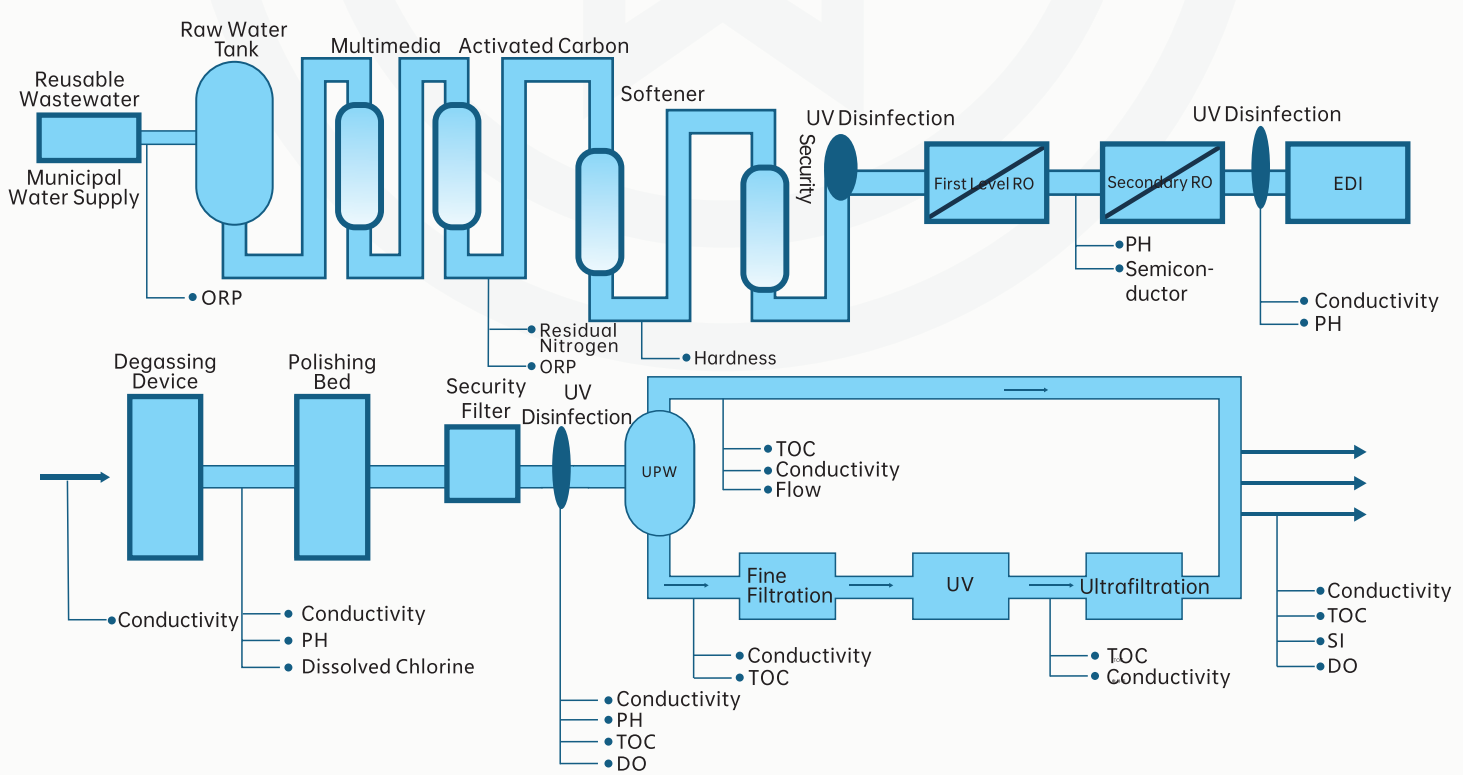
Product Model

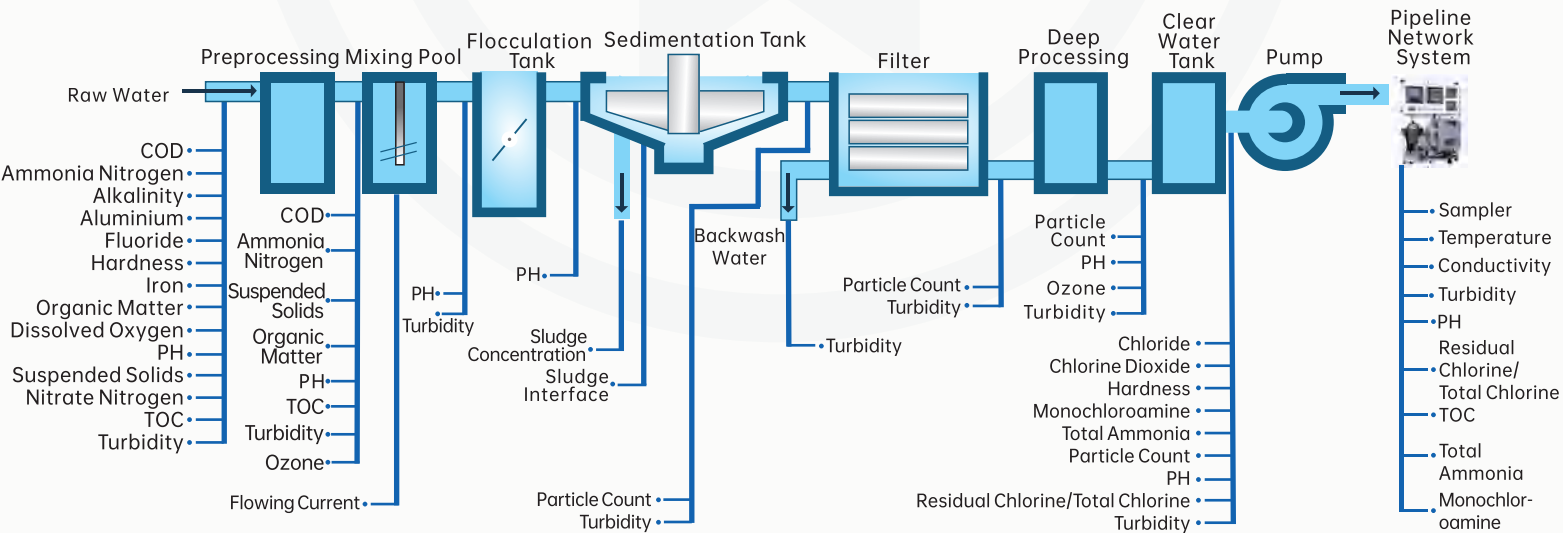
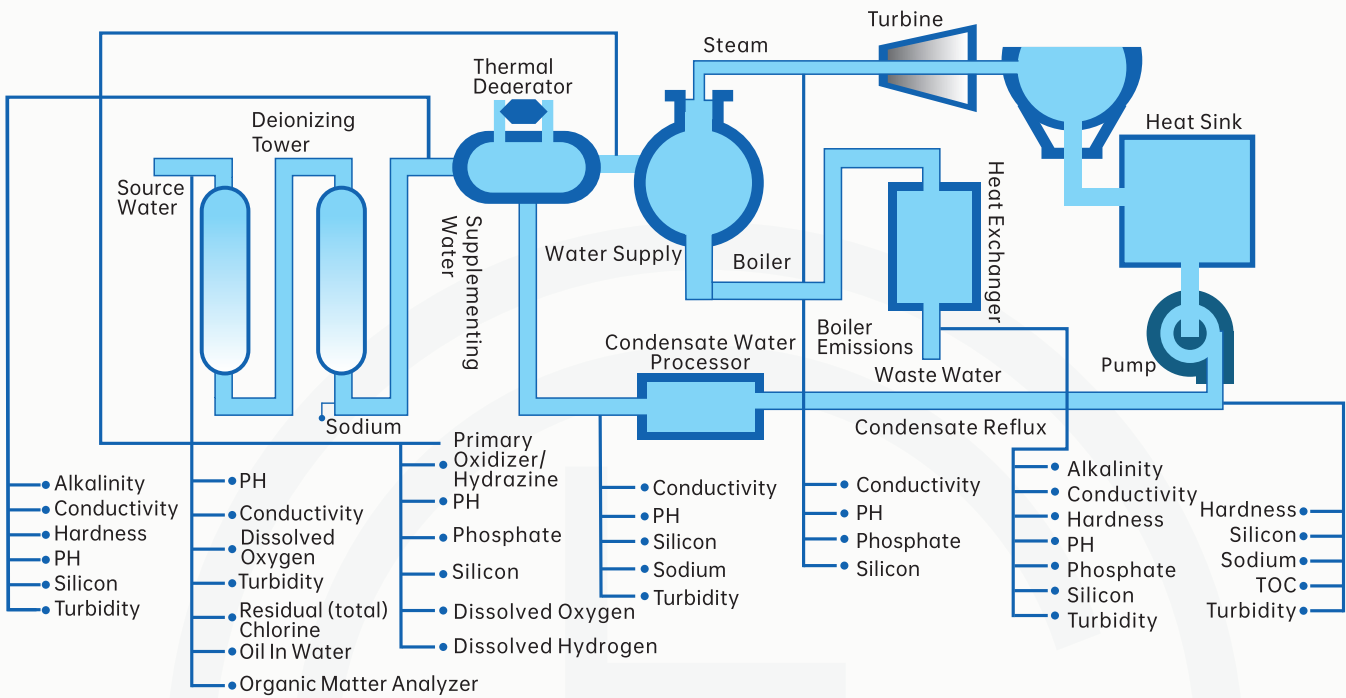
Model	MC-H1 Sinking Type	MC-H2 Flow type	MC-H3 Self-cleaning	MC-H4 Sinking Type (small range)
Product Diagram				
Detection method	Infrared optical method	Infrared optical method	Infrared optical method	Infrared optical method
Cleaning method	-	-	Scraper automatic	-
Measuring range	0-100mg/L, 0-1000mg/L 0-50000mg/L, Customizable	0-10mg/L, 0-1000mg/L 0-20g/L, Customizable	0-100mg/L, 0-1000mg/L 0-50000mg/L, Customizable	0-100mg/L
Resolution	0.01mg, 1mg, 1mg	0.01mg, 1mg, 1mg	0.01mg, 1mg, 1mg	0.01mg, 1mg, 1mg
Temperature range	-10-50°C	-10-50°C	-10-50°C	-10-50°C
Using water depth	IP68, 10mMax	IP68, 10mMax	IP68, 10mMax	IP68, 10mMax
Power supply	12-24VDC	12-24VDC	12-24VDC	12-24VDC
Output signal	RS485,4-20mA	RS485,4-20mA	RS485,4-20mA	RS485,4-20mA
Installation thread	NPT3/4	-	NPT3/4	NPT3/4
Installation method	Sunken type	Flow type, quick connect outer diameter 6mm	-	Sunken type
Material	304, POM, Quartz glass	304, POM Quartz glass, Acrylic	304, POM, Quartz glass	304, POM, Quartz glass
Size	Length: 200mm Diameter: 48mm	-	Length: 200mm Diameter: 48mm	Length: 200mm Diameter: 48mm
Response time	T90, < 30s	T90, < 30s	T90, < 30s	T90, < 30s
Applicable scenarios	Water treatment, surface water, sewage pipeline network, etc	Sewage, surface water, tap water, swimming pool, etc	Sewage, surface water, swimming pools, aquaculture, sewage pipelines, etc	Water treatment, surface water, sewage pipeline network, etc

Sewage Treatment Process Diagram

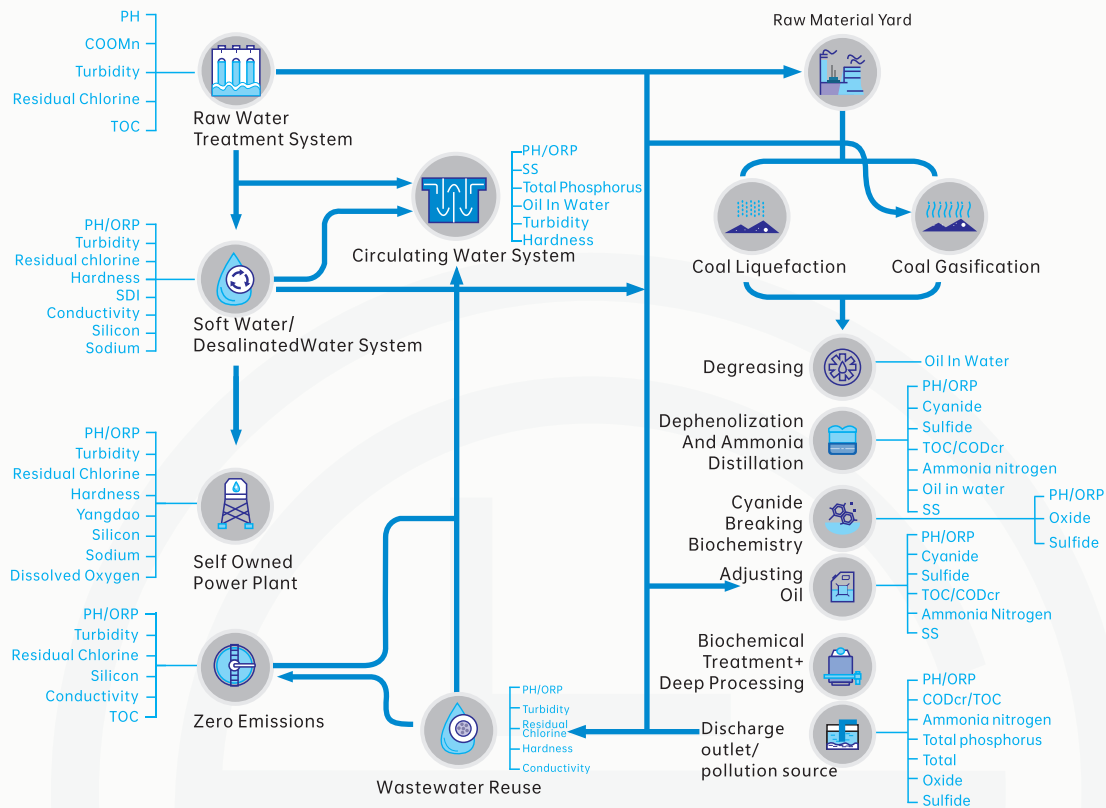


Electronic Industry Water/Wastewater Reuse Process and Water Quality Monitoring Plan



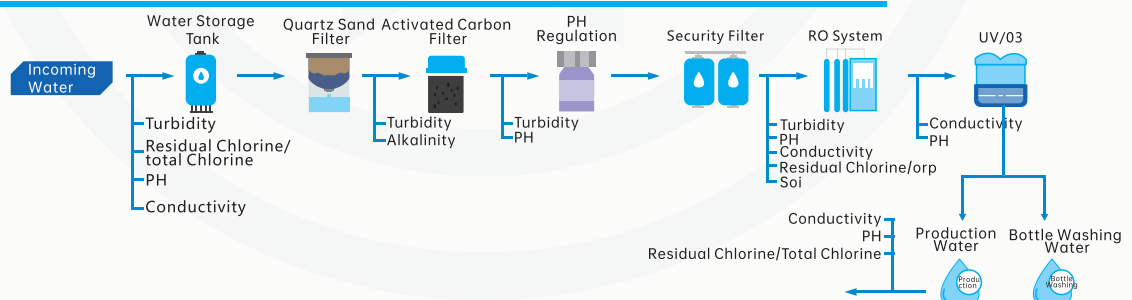


Petrochemical Environmental Water Treatment Process Diagram

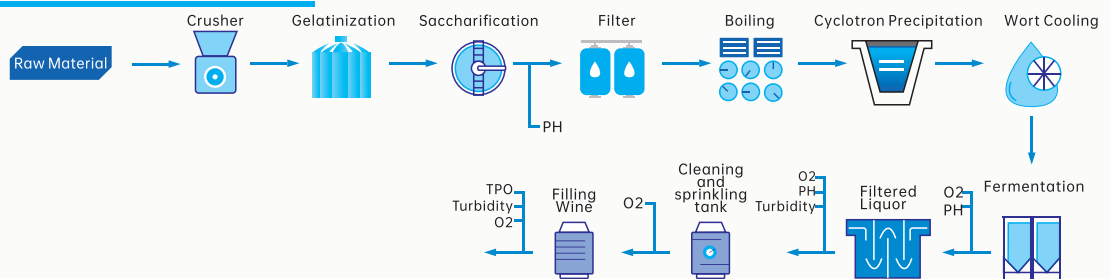


Wastewater Treatment Process And Water Quality Monitoring Plan For The Beer And Beverage Industry

Process Flow Of Beer Beverage Raw Water Pretreatment



Beer Water Usage Process



MC Selection Composition

Selection example **MC-**

1 H1 2 A 3 G 4 N 5 V 6 A 7 S 8 E 9 H

1.Electrode model	H1	Sunken type
	H2	Circulation type
	H3	Self cleaning
	H4	Immersion type (small range)
2.Display Size	A	4.3-inch LCD color screen
	B	3.2-inch LCD screen
3.Range	G	0~20mg/L
	H	0-400mg/L
	I	0-4000mg/L
	T()	Other ranges
4.Resolutions	N	0-10mg/L
	O	0-20g/L
	P	0-100mg/L
	Q	0-1000mg/L
	R	0-50000mg/L
	T()	Other resolutions
5.Output signals	V	4-20mA
	U	4-20mA+RS485
	W	4-20mA+RS232
	T()	Other output signals
6.Materials	A	304
	B	POM
	C	Acrylic
	D	quartz glass
	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

Explanation:

The MC type suspended solids analyzer is equipped with a submerged electrode and a 4.3-inch LCD color screen. It has a range of 0-20mg/L, a resolution of 0-10mg/L, an output signal of 4-20mA, a material of 304, a power supply of 24VDC, a protection level of IP68, and a 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;