Please refer to page 8 for selection details

Water Turbidity Analyzer Quality Analysis







Operational Principle

The light waves sent by the infrared sensor transmitter can only reach the receiver after being absorbed, reflected, and scattered by the measured object during transmission. The transmittance of the transmitted light is proportional to the concentration of the suspended object being measured, and the concentration of turbidity 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 in wastewater treatment, swimming pools, secondary water supply, cooling towers and other systems, as well as in processes such as electronics, electroplating, printing and dyeing, chemistry, food, pharmaceuticals, etc., it performs excellently in largescale sewage treatment plants, industrial process monitoring, and other applications.



Product Model

Product Model	Т	A.
Product Diagram	12.646 In the state of the sta	7.00 25°C NTU
Display	4.3-inch LCD	3.2 inch color screen
Measuring Range	Turbidity: 0-2NTU, 0-10NTU, 0-40NTU, 0-400-4000NTU	Turbidity: 0-2NTU, 0-10NTU, 0-40NTU, 0-400-4000NTU
Measurement Accuracy	Turbidity: ± 3% FS	Turbidity: ± 3% FS
Resolving Power	0.001/0.01 (depending on electrode)	0.001/0.01 (depending on electrode)
Isolation Output Current	4-20mA (load resistance<800Ω)	4-20mA (load resistance<800Ω)
Communication Interface	RS-485 Modbus standard communication protocol	Optional configuration
Two Sets Of Relay Contacts	3A 240VAC, 6A 28VDC or 120VAC	3A 240VAC, 6A 28VDC or 120VAC
Power Supply	85-260VAC/50-60Hz or 24VDC	85-260VAC/50-60Hz or 24VDC
Power	≤ 3W	≤ 3W
Quality	0.82kg	0.5kg
External Dimensions	180 x 157 x 84.5mm	96 x 96 x 125mm
Installation Opening	Plate mounted 138 x 138mm (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 and digital signal electrodes	Analog signal electrode
Data Function	Data storage, operation logs, Bluetooth printing	-

Product Model

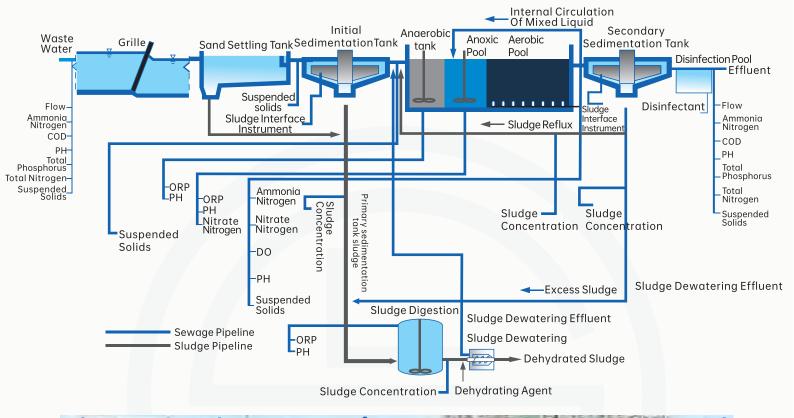
Model	Ta-f1 Sinking Type (above 100ntu)		TA-F2 Sinking (below 100NTU)	TA-F3 Circulation Type (above 100NTU)	Ta-F4 Flow Type (below 100ntu)					
Product Diagram										
Detection method	Infrared optical method	In	frared optical method	Infrared optical method	Infrared optical method					
Measuring range	0-200NT, 0-4000NTU Customizable		0-100NTU, Customizable	0-200NT, 0-4000NTU Customizable	0-100NTU, Customizable					
Resolution	0.01NTU, 0.1NTU, 1NTU	0.0	O1NTU, O.1NTU, 1NTU	0.01NTU, 0.1NTU, 1NTU	0.01NTU, 0.1NTU, 1NTU					
Temperature range	-10-50°C		-10-50°C	-10-50°C	-10-50°C					
Using water depth	IP68, 10mMax		IP68, 10mMax	-	-					
Power supply	24VDC/220VAC		24VDC/220VAC	24VDC/220VAC	24VDC/220VAC					
Output signal	RS485,4-20mA		RS485,4-20mA	RS485,4-20mA	RS485,4-20mA					
Installation thread	NPT3/4		NPT3/4	-	-					
Installation method	Sunken Type		Sunken Type	Flow type, quick connect outer diameter 6mm	CirculationType					
Material	304, POM, Quartz Glass	30	4, POM, Quartz Glass	304, POM, Quartz Glass	304, POM, Quartz Glass					
Size	Length: 200mm Diameter: 48mm		φ50×262mm	Acrylic	⊠222.6×442×221.2mm					
Responsetime	T90, <30s		T90, <30s	T90, <30s	-					
Cleaning method	-		-	-	-					
Applicable Scenarios	Sewage, surface water, tap water, swimming pool, etc	p v plo i w	dunicipal water supply, sewage treatment clants, comprehensive urification tanks, pulp and paper industry vastewater treatment ants, chemical industry, andustrial wastewater treatment, livestock vastewater treatment, and raw water nonitoring of industrial production processes	Sewage, surface water, tap water, swimming pool, etc	Sewage, surface water, tap water, swimming pool, etc					



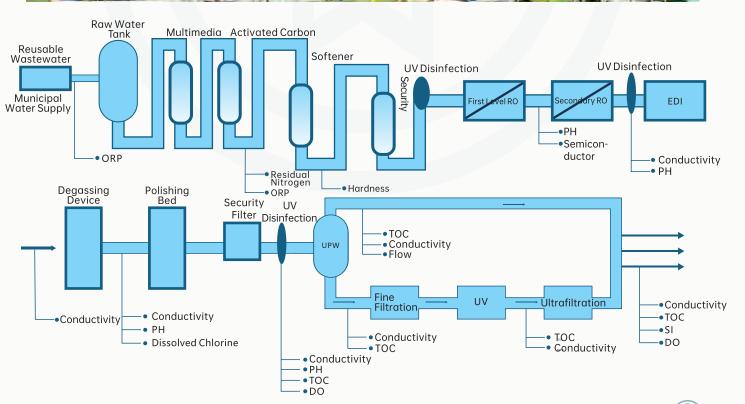
Product Model

Model	TA-F5 Self-cleaning	TA-F6 High-temperature Type (plug-in)	TA-F7 High-temperature Type (Flow Type)
Product Diagram			
Detection method	Infrared optical method	Infrared optical method	Infrared optical method
Measuring range	0-100NTU,0-200NTU,0-4000NTU Customizable	0-100NTU,0-200NTU,0-4000NTU Customizable	0-100NTU,0-200NTU,0-4000NTU Customizable
Resolution	0.01NTU, 0.1NTU, 1NTU	0.01NTU, 0.1NTU, 1NTU	0.01NTU, 0.1NTU, 1NTU
Temperature range	-10-50°C	0~180°C	0~180°C
Using water depth	IP68, 10mMax	-	-
Power supply	24VDC/220VAC	24VDC/220VAC	24VDC/220VAC
Output signal	RS485,4-20mA	RS485,4-20mA	RS485,4-20mA
Installation thread	NPT3/4	-	-
Installation method	-	Insert Type	Circulation Type
Material	304, 316,POM, Quartz Glass	304+ABS+Quartz Glass	304+Carbon Steel+ABS+ Quartz Glass
Size	Length: 200mm Diameter: 48mm	-	-
Responsetime	T90, < 30s	T90, < 30s	T90, <30s
Cleaning method	Scraper Automatic	-	-
Applicable Scenarios	Sewage, surface water, swimming pools, aquaculture, sewage pipelines, etc	Chemical, sewage, beer processing, etc	Chemical, sewage, beer processing, etc

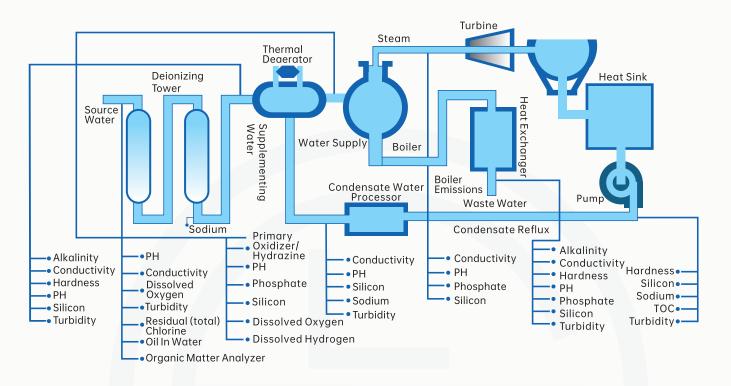
Sewage Treatment Process Diagram



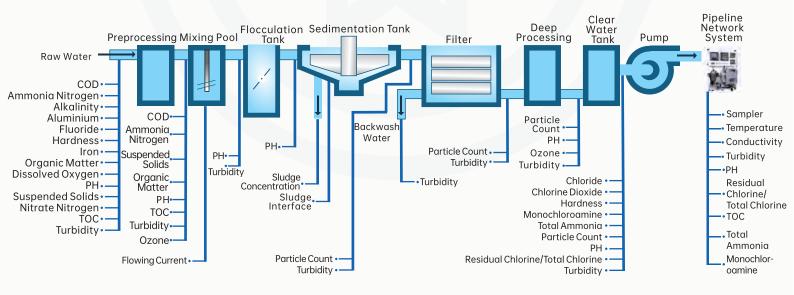
Electronic Industry Water/Wastewater Reuse Processand Water Quality Monitoring Plan



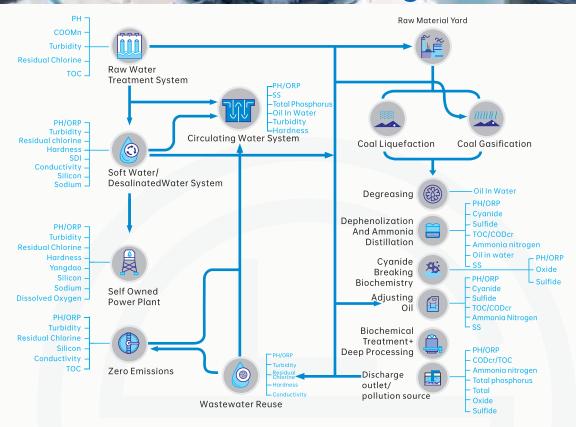
Boiler Water Flow Diagram



Drinking Water Treatment Process Diagram

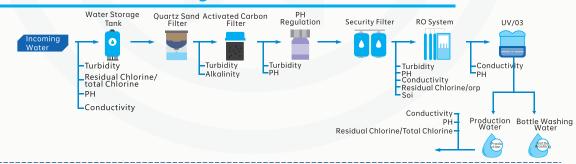


Petrochemical Environmental Water Treatment Process Diagram

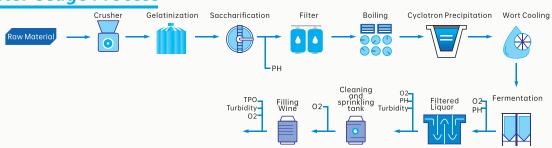


Wastewater Treatment Process And Water Quality Monitoring Plan For The Beer And Beverage Industry

Process Flow Of Beer Beverage Raw Water Pretreatment



Beer Water Usage Process







TA- Selection Composition

Immersion type (below 100NTU)											
Circulation type (above 100NTU)											
High temperature type (plug-in) High temperature type (flow type) Other electrodes											
6.2 Installing flanges A1 DN15 High temperature type (flaw type) A2 DN20											
35											
DmA+RS232											
signals	3										
steel											
uartz glass											
S ner materials											
IP66											
IP68											
	protection level										
	•										
Α	24VDC										
Sign Sign Sign Sign Sign Sign Sign Sign	gnals gnals steel glass ateri P66 P68										





TA- Selection Composition

Other lengths

Selection example TA -		/ A	. /	G		F7		R		С	\perp	A5	_	М	<u>/_</u>	С	_	-	<u>/</u>	В		-			
				 I	2		3		4		5		6		7		8		9		10		11		
	11.Cable length	Н	10m																						
		1	5m																						
		G	15m																						



Explanation:

The TA-F7 high-temperature (flow type) online turbidity meter has a display screen size of 4.3 inches LCD color screen. The instrument type is integrated, with a range of 0-4000NTU and a resolution of 0.01NTU. The installation flange is DN50, and the output is 4-20mA. The material is carbon steel, and the power supply is 220VAC.

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;



