QiweiLab

HANGZHOU QIWEI INSTRUMENT CO., LTD.

COMPANY BROCHURE

Water Quality Testing Instrument

About Us

Hangzhou Qiwei Instrument Co., Ltd. was founded in 2008 and is located in Hangzhou Biomedical Industrial Park, Linping District, Hangzhou City, with a factory area of 4,000 square meters. It is a technology-based enterprise specializing in the research and development, design, production, sales and service of water quality analysis instruments, optical detection instruments, general mechanical and electrical instruments and electrochemical sensors.

The company is constantly committed to the research and development, innovation and upgrading of general instruments, and has been persistently following its own path. Since its establishment, the company has independently developed more than 500 products and has been hailed by customers as the "home of General Instruments".

We take "creating value for customers and promoting social development" as our mission, and the company will pursue "brand, quality and service". With the tenet of "pioneering, innovating, being honest and developing", we are committed to becoming a leading domestic manufacturer and service provider of scientific instruments.

HONOR

The company holds over 50 property rights patents, including invention patents, utility model patents, design patents, and software Copyrights. It has been honored with titles such as Provincial Technology-based Small and Medium-sized Enterprise, Hangzhou High-tech Enterprise, and National High-tech Enterprise.

Pen-Type pH Meter

PH-20
PH-220

PH-20W
PH-220W

Introduction

Pen-type pH meter is a portable pen-type precision instrument designed for field or field operation, which can simultaneously display positive value and temperature value. The instrument is suitable for water source monitoring, aquaculture, environmental protection, printing and dyeing, electroplating, beverage industry and scientific research units to determine the positive value of water quality.

Technical Parameter				
Model	PH-20	PH-20W	PH-220	PH-220W
Measuring Range	pH: 0.1-14.0; Temperature: 0-50 ℃,32-122° F			
Resolution	pH: 0.1; Temperature: 0.1 ℃/1°F		pH: 0.01; Temperature: 0.1℃/1°F	
Accuracy	pH: ± 0.1; Temperature:1℃/2°F		pH: ± 0.02; Temperature:1℃/2°F	
pH Calibration	25 ℃ three-point calibration 4.0 6.9 9.2		25 ℃ three-point calibration 4.01 6.86 9.18	
Electrode	built-in electrode	external wire electrode	built-in electrode	external wire electrode
Ambient Temperature	0-50℃(32-122°F)			
Power Supply	4×AAA batteries			
Size	Φ40×185mm			
Weight	88g			

Portable pH Meter

PHB-1

PHB-4

Introduction

This instrument is an intelligent pH meter controlled by a microprocessor. It is made of highly reliable imported integrated components and strictly screened. Its performance is stable, reliable and easy to operate. It is suitable for measuring the acidity (pH) and electrode potential (mV) of solution precisely in laboratory, and is widely used for electrochemical analysis in light industry, chemical industry, pharmaceuticals, food, epidemic prevention, environmental protection, education and scientific research departments.

Technical Parameter		
Model	PHB-1	PHB-4
Measuring Range	pH: 0~14.00; Temperature: 0~60 °C	
	mV: ±1600	mV: ±1999
Resolution	pH: 0.01; Temperature: ± 1 °C	
Precision	pH: 0.01; Temperature: ± 1 °C	
Temperature Compensation	0-60 °C manual compensation	0-60 °C manual/automatic compensation
Basic Configuration	1.E201-C Composite pH Electrode 2.pH solution 3.4×AAA batteries	1.E201-C-W Temperature pH Electrode 2.pH solution 3.4×AAA batteries

Benchtop pH Meter

PHS-3C

PHS-3CW
PHS-3DW

Introduction

PHS digital display pH meter is a high-precision instrument for pH measurement in laboratory. With dual functions of pH and MV, and standard E201-C composite electrode, the reaction speed is fast and the stability is good. This instrument is suitable for industrial and mining enterprises, scientific research, agriculture, medicine, teaching, environmental protection and other units, used for the sampling and determination of pH value of aqueous solution and the determination of electrode potential (mV).

Working Condition			
Model	PHS-3C	PHS-3CW	PHS-3DW
Environmental Temperature	0 ~ 40°C		
Relative Humidit	<85%		
Measured Solution's Temperature	5 ~ 60 °C		
Power Supply	AC 110-230V	6.5-9V DC	
Interference	No significant vibration and strong electromagnetic field interference		

Technical Parameter			
Model	PHS-3C	PHS-3CW	PHS-3DW
Measuring Range	pH: 0 ~ 14.00; mV: ±1999; Temperature: 0 ~ 100 °C		
Resolution	pH: 0.01	pH: 0.01/0.1	
	Temperature: ± 1 °C		
Precision	pH: 0.01; temperature: ±1 °C		
Temperature Compensation	0-100 °C manual compensation		0-100 °C manual/automatic compensation
Store Record	without	with data storage function	
Size	220×200×85mm	230×200×60 mm	
Weight	1kg	1.2 kg	1.5kg
Basic Configuration	1.E201-C composite pH electrode (suitable for measurement of solution temperature range 5-60 °C); 2.pH solution; 3.power adapter		1.E201-C composite pH electrode (suitable for measurement in the solution temperature range of 0-80 °C); 2.Temperature electrode (only suitable for solution at 0-65 °C); 3.pH solution; 4.power adapter

Pen-Type Conductivity Meter

DDB-12H
DDB-12L

Introduction

The pen-type conductivity meter is a portable pen-type precision instrument designed for field operation, which can display the conductivity value and temperature value at the same time. The instrument is suitable for water source monitoring, aquaculture, environmental protection, printing and dyeing, electroplating, beverage industry and scientific research units to determine the conductivity of water quality.

Technical Parameter		
Model	DDB-12H	DDB-12L
Measuring range	0-25ms	0-1999μs
Resolution	0.01ms	1μs
Precision	±0.02ms+2%FS	±2μs +1%FS
Conductivity Calibration	12.88ms One Point Calibration	1413ps one-point calibration
Temperature Display	0.1°C/°F	
Operating Temperature	0~50°C (32~122°F)	
Automatic Temperature Compensation	0~50°C	
Size	Φ40 ×185mm (including electrode)	
Weight	88g(including electrode)	

Portable Conductivity Meter

DDB-11A

Introduction

The instrument is mainly used to measure the conductivity of various liquids. The conductivity of pure water or highly pure water can be measured with an electrode with a specification constant of 0.1 . It can be widely used in light industry, chemical industry, food, medicine, health, energy, environmental protection, education and scientific research and other departments.

The instrument is controlled by microcomputer with high precision. Good stability, high reliability, simple operation and convenient maintenance.

Working Condition	
Ambient Temperature	0 ~ 40 °C Relative humidity: < 85%
Power Supply	4×AAA batteries
Vibration	No significant vibration
Interference	There is no other strong magnetic field interference, except the geomagnetic field
Optional Electrode Specification Constants	0.1, 1, 10
Size	180×80×30 mm
Weight	0.8kg

Technical Parameter		
Model	DDB-11A	DDBJ-350
Measuring Range	Conductivity: (0 ~ 199.9) μs/cm; (200 ~1999)μs/cm; (2.00 ~ 19.99)ms/cm; (20.0 ~ 199.9)ms/cm	
Resolution	0.1/1μs/cm; 0.01/0.1 ms/cm	
Accuracy	Electro-meter:±1.0% FS; Matching: ±1.5% FS	
Temperature Compensation	10-50 °C manual compensation	10-50 °C manual/automatic compensation
Temperature Coefficient	2.0%/°C	
Basic Configuration	1.DJS-1E (platinum black) electrode 2.1408μs/cm conductivity standard calibration mount 3.4×AAA batteries	1.DJS-1E (platinum black) electrode 2.018 temperature electrode 3.1408μs/cm conductivity standard calibration mount 4.4×AAA batteries

Benchtop Conductivity Meter

DDS-307A

Introduction

This instrument is mainly used to measure the conductivity of various liquids. The conductivity of pure water or highly pure water can be measured with an electrode with a specification constant of 0.1. It can be widely used in light industry, chemical industry, food, medicine, health, energy, environmental protection and education and scientific research departments.

The instrument is controlled by microcomputer with high accuracy; Good stability; High reliability; Simple operation; Easy to maintain.

Technical Parameter				
Measuring Range	0~199.9 μs/cm	200~1999 μs/cm	2.00~19.99 μs/cm	20.0~199.9 μs/cm
Resolution	0.1 μs/cm	1 μs/cm	0.01 μs/cm	0.1 μs/cm
Accuracy	±3.0%FS			
ATC	0~50°C			
Temperature Coefficient	2.0%°C			
Corresponding Electrode Constant	0.1	1	1	10
Stored Data	No., testresult, unit, temperature			
Size	310×250×187 mm			
Weight	1.52 kg			
Working Environment	5~35°C, RH<85%			
Power Supply	AC 110-230V DC 6.5-9V			
Interference	No significant vibration and strong electromagnetic field interference			

Pen-Type TDS Meter

Introduction

Pen-type TDS is a precision instrument used for testing TDS(total Dissolved Solids in Solution). Simultaneously display the TDS measurement value and temperature. It features comprehensive functions, stable performance and easy operation. It makes it the best choice for measuring TDS values in the field and laboratories of enterprises and institutions. It is widely used for monitoring in industries such as chemical engineering, pharmaceuticals, electronics, and food.

Technical Parameter		
Model	TDS-1H (High Range)	TDS-1L (Low Range)
Measuring Range	0 ~ 9999 PPM	0 ~ 2500 PPM
Accuracy	±2% FS	
Resolution	1 PPM	
Automatic Temperature Compensation	0°C ~ 50°C	
Operating Temperature	0°C ~ 50°C	
Calibration	1-point automatic calibration	
Dimensions	Φ40*185mm (including electrode)	
Weight	88g	

Benchtop Dissolved Oxygen Meter

JPB-605
JPB-650

Portable Dissolved Oxygen Controller

JPB-607A
JPB-608A

Pen-Type Dissolved Oxygen Meter

JPB-70A
JPB-80A

Introduction

The intelligent dissolved oxygen controller is mainly designed for the convenience of users to carry it to the field for operation. The instrument can be divided into two parts: sensor and electronic unit. The sensor adopts polarographic coated dissolved oxygen electrode. The electronic unit is composed of highly integrated circuits.The instrument adopts a dot-matrix LCD display, which can show dissolved oxygen and temperature values.

Technical Parameter						
Model	JPB-70A	JPB-607A	JPB-80A	JPB-608A	JPB-605	JPB-650
Measuring Range	(0 ~ 19.9) mg/L					
Temperature	(0 ~ 40) °C					
Basic Error	±0.3 mg/L					
Temperature Fluctuation	±1 °C					
Automatic Temperature Compensation Range	(0 ~ 40) °C					
Power supply	4×AAA batteries				9-15V, 300 mV	AC 110-230V
Size	Φ40×185mm	180×80×30mm	Φ40×185mm	180×80×30mm	220×200×85mm	230×200×80mm
Weight	88g	1kg	88g	1kg	1.5kg	
Response Time	No		no more than 30s (90% response at 20 °C)			
Type	Pen-Type	Portable	Pen-Type	Portable	Benchtop	Benchtop

Pen-type ORP Meter

ORP-BL

ORP-BW

Introduction

It has small volume, high precision, stable and reliable work, etc. It can simultaneously measure and display the ORP value and temperature value of solution, and the operation is simple. It is the best choice for field and laboratory test and control of ORP value.Widely used in chemical, pharmaceutical, electronic, food and other industries ORP value monitoring.

Feature

1.Automatic shutdown function.
2.Automatic temperature conversion between °C/°F .
3.Replaceable electrodes.
4.Dual display of mV value and temperature value.
5.Data locking function.

Technical Parameter		
Model	ORP-BL	ORP-BW
Measuring Range	± 1100 mV	
Resolution	1mV	
Precision	± 15 mV	
Calibration	The factory has been corrected, and the user can use it directly	
Temperature Unit	1°C/°F	
Size	Φ 40×190 mm(includes electrode)	
Operating Temperature	0 ~ 50 °C (32 ~ 122 °F)	
Weight	88g	
Electrode	built-in electrode	external electrode

Portable ORP Meter

Introduction

Digital ORP meter is a high precision instrument for mV measurement in laboratory. With dual functions of MV and temperature, standard ORP electrode and temperature electrode, fast reaction and good stability.The instrument is suitable for industrial and mining enterprises, scientific research, agriculture, medicine, teaching, environmental protection and other units to measure the polar potential (mV) of aqueous solution. It can detect ORP value and temperature value at the same time.

Technical Parameter	
Model	ORP-2
Measuring range	0 ~ ± 1999 mV
Resolution	1mV
Temperature Range	0 ~ 60°C
Temperature Compensation	automatic temperature compensation
Basic Configuration	1.ORP electrode,[suitable for measurement of solution temperature (5~60)°C]; 2.battery; 3.Temperature electrode; 4.calibration solution

Benchtop ORP Meter

Working Condition	
Ambient Temperature	0 ~ 40°C
Relative Humidity	< 85%
Power Supply	DC 6.5-9V
Vibration	No significant vibration
Interference	There is no external magnetic field interference except the earth's magnetic field

Technical Parameter	
Model	ORP-1
Accuracy	0.01
Measuring Range	(0 ~ ±1999) mV; PH: 0 - 14
Resolution	1 mV; PH 0.01
Temperature Compensation	0 ~ 60°C manual compensation
PH Value Increase Function	add PH solution PH 4.00/6.86; Plastic shell PH composite electrode PH 9.18
Input Impedance	1 × 1012Ω or more
Zero Drift	0.01 PH ±1word/2 h
G.Solution Temperature compensation Range	5 ~ 60°C
Size	230×200×60 mm
Weight	1.2 kg
Basic Configuration	ORP electrode, [suitable for measurement of solution temperature (5~60)°C];power adapter

Portable Turbidity Meter

Introduction

The WGZ series scattering light turbidity meter is used to measure the degree of scattering produced by insoluble particulate matter suspended in water or transparent liquids, and can quantitatively verify the content of these suspended particulate matter. It can be widely used in power plants, pure water plants, waterworks, sewage treatment plants, beverage factories, environmental protection departments, industrial water use, winemaking industries, pharmaceutical industries, epidemic prevention departments, hospitals and other departments for turbidity measurement.

Technical Parameter				
Model	WGZ-B	WGZ-1B	WGZ-20B	WGZ-200B
Principle	90° scattered light			
Minimum Indication	0.1NTU		0.01NTU, 0.1NTU	
Measuring Range	0~200NTU		0~20NTU, 0~200NTU	
Indication Error	±8% (±2.5% FS)			
Repeatability	≤ 1%			
Zero Drift	±1% FS			
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter			
Size	235×75×65 mm			
Feature	LCD display, LED light source, auto power-off			
Ambient Temperature	5~35℃ for use；-20~55℃ for storage			
Relative Humidity	80%RH			

Portable Turbidity Meter

Introduction

The ZD series intelligent turbidity meter adopts the scattering light principle. The calibration solution uses is the formaldehyde standard solution commonly adopted internationally. It is a precise and intelligent instrument with good measurement linearity, accurate and reliable numerical values, and convenient operation.

This instrument is applicable to waterworks, reclaimed water treatment plants, swimming pool water reuse, food and beverage industries, etc. It is an essential instrument for water laboratories.

Technical Parameter					
Model	ZD-201	ZD-401	ZD-501	ZD-801	ZD-1001
Principle	90 ° scattered light				
Measurement Range(NTU)	0-100/0.01 100-200/0.1	0-100/0.01 100-400/0.1	0-100/0.01 100-500/0.1	0-100/0.01 100-800/0.1	0-100/0.01 100-1000/0.1
Minimum Display Value(NTU)	0.1/0.01				
Calibration Point	2 points	5 points	6 points	6 points	7 points
Display Error	±6%(±2%FS)				
Repeatability	≤0.5%				
Zero Drift	±0.5%FS				
Weight	1.5kg				
Size	370×260×160mm				
Power Supply	AC 110-230V				
Feature	Equipped with a microcomputer, the instrument has an average measurement mode, data storage and query function,automatic range switching, etc.				

Technical Parameter		
Model	ZD-2A	ZD-10A
Principle	90° scattered light	
Minimum Indication	0.1NTU	
Measuring Range	0~200NTU	0~1000NTU
Calibration	0NTU, 100NTU	0NTU, 50NTU, 100NTU, 200NTU, 400NTU, 800NTU, 1000NTU
Indication Error	±8% (±2.5%FS)	
Repeatability	≤0.8%	
Zero Drift	±0.8%FS	
Weight	0.5kg	
Size	210×75×70mm	
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter	
Feature	popular type, wide measurement range, suitable for water plants, good stability	

Benchtop Turbidity Meter

Introduction

The WGZ-AS,WGZ-BS intelligent turbidity meter utilizes the scattering light principle. The calibration solution it uses is the formaldehyde standard solution commonly adopted internationally. It is a precise and intelligent instrument with excellent linear measurement of turbidity, accurate and reliable numerical values, and convenient operation.

This instrument is applicable to water treatment plants, reclaimed water plants, swimming pool water reuse, food and beverage industries, etc. It is a necessary instrument for water laboratories.

Technical Parameter(A series)					
Model	WGZ-200AS	WGZ-400AS	WGZ-500AS	WGZ-800AS	WGZ-1000AS
Principle	90° scattered light				
Measuring Range	0-200NTU	0-400NTU	0-500NTU	0-800NTU	0-1000NTU
Minimum	0.1 NTU				
Calibration	4	5	6	6	7
Indication Error	±6%(±2%FS)				
Repeatability	≤0.5%				
Zero Drift	±0.5%FS				
Weight	0.5kg				
Size	200×270×80mm				
Power Supply	AC 110-230V / DC 6.5-9V adapter				
Feature	microcomputer configuration, featuring average measurement mode, with data storage and query functions, and automatic range switching.				

Technical Parameter(A series)					
Model	WGZ-200BS	WGZ-400BS	WGZ-500BS	WGZ-800BS	WGZ-1000BS
Principle	90° scattered light				
Measuring Range	0-100/0.01NTU 100-200/0.1NTU	0-100NTU/0.01NTU 100-400/0.1NTU	0-100/0.01NTU 100-500/0.1NTU	0-100/0.01NTU 100-800/0.1NTU	0-100/0.01NTU 100-1000/0.1NTU
Minimum	0.1/0.01NTU				
Calibration	2	5	6	6	7
Indication Error	±6%(±2%FS)				
Repeatability	≤0.5%				
Zero Drift	±0.5%FS				
Weight	2.5kg				
Size	400×300×250mm				
Power Supply	AC 110-230V				
Feature	microcomputer configuration, featuring average measurement mode, with data storage and query functions, and automatic range switching.				

Benchtop Digital Turbidity Meter

Introduction

The WGZ series scattering light turbidity meter is used to measure the degree of scattering produced by insoluble particle substances suspended in water or transparent liquids, and can quantitatively verify the content of these suspended particle substances. It can be widely used in power plants, pure water plants, waterworks, sewage treatment plants, beverage factories, environmental protection departments, industrial water use, wine-making industries and pharmaceutical industries, epidemic prevention departments, hospitals and other departments for turbidity measurement.

Technical Parameter						
Model	WGZ-20S	WGZ-1S	WGZ-20	WGZ-1A	WGZ-200	WGZ-800
Principle	90° scattered light					
Minimum Indication(NTU)	0.01		0.1		0.01、0.1	0.01、0.1、1
Measuring Range(NTU)	0～20		0～200		0～20, 0～200	0～20, 0～200, 0-800
Indication Error	±8%(±2.5%)					
Repeatability	≤0.8%					
Zero Drift	±0.8%					
Power Supply	AC 110-230V					
Weight	2.2kg					
Size	400×300×250mm					

McFarland Turbidity Meter

WGZ-XB

WGZ-XT

Introduction

The McFarland turbidity meter is mainly used to measure the bacterial concentration in the suspension of the strain to be identified. This instrument is calibrated using ($BaSO_4$) McFarland turbidity standard solution and adopts McFarland turbidity units (MCF). The McFarland unit turbidity value is directly displayed. It is suitable for the determination of bacterial liquid concentration in medical and health institutions, biological products, quarantine agencies and research institutions.

Principle

After the measuring device is placed in the sample, the light beam emitted by the light source will be scattered when it encounters the bacterial particles. The 90 ° scattered light signal generated by this scattering is received by the photo-sensitive element. The light signal is amplified by the circuit and processed by the single-chip microcomputer for data, and then the measured McPherson turbidity value is displayed.

Technical Parameter		
Model	WGZ-XB	WGZ-XT
Minimun Indication	0.01MCF	
Measuring Range	0~5MCF(1MCF=3×10^8 CFU/ml)	
Indication Error	±6%(±5%FS)	
Repeatability	≤0.5%	
Zero Drift	±0.5%FS	
Feature	bacterial turbidity analysis,direct reading MCF	

Working condition

1.The instrument should be placed in a dry room, and the operating temperature should be between 5℃and 35℃

2.When in use, it should be placed on a flat workbench and kept away from vibrations.

3.Indoor lighting should not be too strong and direct sunlight should be avoided.

4.Try to stay away rom igh-intensity magnetic fields, electric fields and electrical equipment that generate high-frequency waves.

5.Avoid exposing the instrument to high temperatures.

6.Power supply:AC 110-230V, and it must be equipped with a good grounding wire.

Beer Turbidity Meter

PJZ-1

Beer Turbidity Dual-purpose Meter

PJZ-2

Introduction

The intelligent beer turbidity meter adopts the principle of scattered light. It is a precise and intelligent instrument with good linearity in measuring turbidity, accurate and reliable numerical values, and convenient operation.

Application

This instrument is applicable to water treatment plants, reclaimed water plants, swimming pool water reuse, and the food and beverage industry, etc.

Technical Parameter		
Model	PJZ-1	PJZ-2
Principle	90° scattered light	
Minimum Indication	0.1	
Measuring Range	0-50EBC	0-200NTU,0-50EBC
Indication Error	±2.5%FS	
Repeatability	≤0.8%	
Zero Drift	±0.8%FS	
Power Supply	AC 110-230V	
Weight	1.68kg	1.75kg
Size	400×300×250mm	

Pen-Type Salinity Meter

Introduction

The pen-type salinity meter is a portable and precise instrument designed for on-site or field operations, capable of simultaneously displaying both salinity and temperature values. This instrument is suitable for monitoring of water source for tap water, aquaculture, environmental protection, dyeing, electroplating, beverage industry, and research institutions for the determination of water quality salinity.

Technical Parameter		
Model	YD-1H(high range)	YD-1L(low range)
Measuring Range	0 - 9999 mg/L	0 - 2500 mg/L
Resolution	1 mg/L	
Precision	±2 mg/L	
Salinity Calibration	Salinity 6640 mg/L (12.88 ms/cm), one-point calibration	Salinity 706 mg/L (1413 μs/cm), one-point calibration
Temperature Display	0.1°C/°F	
Operating Temperature	0~50°C (32~122°F)	
Automatic Temperature Compensation	0~50°C	
Size	Φ40×185mm(including electrode)	
Weight	88g(including electrode)	

Technical Parameter		
Model	YD-300(high range)	YD-100(low range)
Measuring Range	300g/L	100g/L
Resolution	0.1 g/L	
Precision	±0.2 g/L	
Temperature Display	0.1°C/°F	
Operating Temperature	0~50°C (32~122°F)	
Automatic Temperature Compensation	0~50°C	
Size	Φ40×185mm(including electrode)	
Weight	88g(including electrode)	

Portable COD Rapid Analyzer

QW-COD-B

Benchtop COD Rapid Analyzer

QW-COD-T

Introduction

Chemical Oxygen Demand (COD) is a term that refers to the amount of oxidant consumed when treating water samples under specific conditions using a strong oxidant. It is a metric used to indicate the amount of reducing substances in water. The reducing substances in water include various organic compounds, nitrite, sulfides, ferrous salts, etc., but the main ones are organic compounds. Therefore, Chemical Oxygen Demand (COD) is often used as an indicator to measure the amount of organic substances in water. The higher the Chemical Oxygen Demand (COD), the more severe the pollution of the water body by organic substances.

This instrument employs a specially formulated reagent, which contains a composite catalyst. This catalyst not only accelerates the reaction but also has an anti-interference effect on chloride ions. The water sample and the specially formulated reagent carry out a rapid redox reduction in the digestion device. After the reaction, trivalent chromium ions are produced, and their concentration is determined by spectrophotometry to obtain the corresponding COD value.

This COD rapid analyzer has been significantly improved in terms of stability, accuracy, measuring range, and practicality. It can meet the various needs of different users and can be applied in industrial wastewater monitoring in fields such as chemical industry, petroleum, coking, papermaking, metallurgy, brewing, and medicine, as well as in various domestic sewage and industrial wastewater. It can be widely used for the detection of wastewater in various industries (industrial wastewater, urban sewage, domestic sewage, and surface water in river basins).

Technical Parameter		
Model	QW-COD-B	QW-COD-T
Ambient Temperature	5 ~ 40°C	
Relative Humidity	< 85% (no condensation)	
Power Supply	AC 110-230V	
Method Of Determination	Rapid catalytic method (chromium method)	
Measuring Range	0~150 mg/L low range;100~1000 mg/L high range (diluted measurement is required when the concentration is above 1000 mg/L)	
Measuring Error	5~100 mg/L,absolute error≤ ±5 mg/L;100~1000 mg/L,relative error≤ ±5%	
Dissolution Temperature	165 ± 1°C	
Dissolution Time	20 minutes	
Determination Time	20 minutes. Can be used to measure 9 wells or 25 wells simultaneously (depending on the configuration of the digestion instrument)	
Temperature Indication Error	<±1°C	
Temperature Field Uniformity	≤ 2°C	
Time Error	≤ ±2%	
Record Storage	It can store 20 measurement results	

COD Rapid Digester

COD-9

COD-25

Introduction

Model COD-25 and COD-9 digesters are special laboratory instrument for sample digestion with QW-COD-T/B chemical oxygen demand analyzer. It is mainly used for sample digestion reaction in chemical oxygen demand (COD) analysis, and is also suitable for other uses.

Feature

1.The structure is compact, and the digestion reaction of 25(or 9) samples can be carried out at the same time, which greatly reduces the energy consumption.

2.The digestion method of sealed micro-reflux is adopted, and there is no need for condensation of condensation water.

3.The digestion temperature can be set arbitrarily from 45 to 190 ° C, and there is an over-temperature alarm device, which is convenient to use.

4.The digestion time 0-720 minutes can be set arbitrarily, and it will be automatically closed after the reaction is over, so the operation is simple.

5.Each tube has passed the pressure and heat resistance test, which is safe and reliable.

Technical Parameter		
Model	COD-25	QW-COD-9
Temperature Control	45 ~ 190 °C	
Digestion Time	0 ~ 720 minutes	
Temperature Indication Error	± 2 °C	
Temperature Field Equilibrium	≤ 2 °C	
Ambient Temperature	5 ~ 40 °C	
Ambient Humidity	≤ 85 RH	
Power Supply	AC 110-230V	
Optional	Portable external power adapter	
Size	283×244×125mm	283×183×128mm
Weight	5.91kg	3.88kg
Packaging Size	530×340×170mm	355×340×215mm

12-Hole COD Heating Digester

Introduction

This COD heating digester is a reflux heating device which uses air condensation instead of water condensation to measure chemical oxygen consumption.

It can be widely used in environmental protection, colleges and universities, medicine, sanitation, food, tap water, chemical industry, sewage treatment, papermaking, petrochemical, metallurgy, printing and dyeing industries, so that the indication and measurement of COD is efficient, fast and economical.

Technical Parameter	
Model	QW-COD-HX12T
Temperature Range	32 °C ~ 399 °C
Accuracy	± 2 °C
Heating Time	(170 °C) < 30min
Temperature Setting	0-99 hours; 0-99 minutes; 0-99 seconds segment adjustable
Power	1.2KW
Power Supply	AC 110-230V
Heating Holes	12

Ion Concentration Meter

DWS-51

PXS-I

PXS-CO_2

PXS-F

PXS-Cd

PXS-NO_3

PXS-Cu

PXS-K

PXS-CL

PXS-HCO3-1

PXS-Ca

Technical Parameter					
Model	DWS-51	PXS-I	PXS-F	PXS-Ca	PXS-HCO_3^{-1}
Test Item	Sodium	Iodine	Fluorine	Calcium	Carbonate Ion
Measuring Range	pNa:0.00-9.00pNa	pI:2-7π	PF:0.00-6.00pF	pCa:0-6pCa	pHCO_3^{-1}:2.00-4.40pHCO_3^{-1}
	Na^+:0.23μg/L-23g/L	I^-:12.7μg/L-1.27g/L	F^-:0.19μg/L-19g/L	Ca^{2+}:40g/L-400μg/L	HCO_3^{-1}:1.75mg/L-0.44g/L
	mV: -1800-1800mV				
Resolution	0.01				
Electronic Unit Basic Error	±0.02pNa±1 word	±0.02pI±1 word	±0.02pF±1 word	±0.02pCa±1 word	±0.02pHCO_3^{-1} ±1 word
Instrument Basic Error	±0.05				
Calculation Error	±0.3%				
Repeatability Error	≤±0.03pNa±1word	≤±0.03pI±1word	≤±0.03pF±1word	≤±0.03pCa±1word	≤±0.03pHCO_3^{-1}±1word
Electronic Unit Stability	±0.02pNa/3h	±0.02pI/3h	±0.02pF/3h	±0.02pCa/3h	±0.1pHCO_3^{-1} /3h
Temp Compensation Range	5.0- 50.0℃				
Szie	230×200×80mm	210×190×80mm	230×200×80mm	210×190×80mm	
Weight	1.5kg				

Technical Parameter					
Model	PXS-K	PXS-CL	PXS-Cd	PXS-Cu	PXS-NO_3
Test Item	Potassium	Chlorine	Cadmium	Copper	Nitrate ion
Measuring Range	pK:0.00-6.00pK	pCl:0.00-6.00pCl	pCd:0.00-6.00pCd	pCu:3.00-7.00pCu	pNO_3:0.00-6.00pNO_3
	K^+:39μg/L-39g/L	Cl^-:0.355μg/L-35.5g/L	Cd^{2+}:0.19g/L-19g/L	Cu^{2+}:6.35μg/L-63.5mg/L	NO_3^{-1}:0.19μg/L-19g/L
	mV: -1800-1800mV				
Resolution	0.01				
Electronic Unit Basic Error	±0.02pK±1 word	±0.02pCL±1 word	±0.02pCd±1 word	±0.02pCu±1 word	±0.02pNO_3±1 word
Instrument Basic Error	±0.05				
Calculation Error	±0.3%				
Repeatability Error	≤±0.03pK±1word	≤±0.03pCl±1word	≤±0.03pCd±1word	≤±0.03pCu±1word	≤±0.03pNO_3±1word
Electronic Unit Stability	±0.02pK/3h	±0.02pCl/3h	±0.02pCd/3h	±0.02pCu/3h	±0.02pNO_3/3h
Temp Compensation Range	5.0- 50.0℃				
Szie	210×190×80mm				
Weight	1.5kg				

Working Condition	
Ambient Temperature	5-40℃
Relative Humidity	≤80%
Power Supply	AC 110-230V
Interference	There is no interference from other magnetic fields except the Earth's magnetic field
Vibration	No significant vibration

Protable Multi-Parameter Ion Meter

Name	Model	Technical parameter
Sodium Ion concentration Meter	BWS-51	0.23μg/L～23g/L
Chlorine Ion Concentration	BXS-CL	0.35μg/L～35.5g/L
Fluoride Ion Concentration	BXS-F	0.19μg/L～19g/L
Nitrate Ion Concentration	BXS-NO_3	0.19μg/L～19g/L
Kalium Ion Concentration	BXS-K	0.19μg/L～19g/L
Calcium Ion Concentration	BXS-Ca	400μg/L～4g/L
Carbon Dioxide Ion Concentration	BXS-CO_2	1.75mg/L～0.44g/L
Iodide Ion Concentration	BXS-I	12.7μg/L～1.27g/L
Cupric Ion Concentration	BXS-Cu	6.35μg/L～63.5g/L
Ferric Ion Concentration	BXS-Fe	0.14mg/L～0.56g/L
Bicarbonate Ion Concentration	BXS-HCO_3	2mg/L～0.6g/L
Cadmium Ion Concentration	BXS-Cd	0.19μg/L～19g/L
Hydrogen Ion Concentration	BXS-H	/
Ammonia Ion Concentration	BXS-NH_3	/
Fluoroborate Ion Concentration	BXS-FP	/

Technical Parameter	
Basic Error Of The Electronic Unit	±0.02pX±1 word
Instrument Basic Error	±0.05pX
Calculation Error	±0.3%
Repeatability Error	≤±0.03pX±1word
Stability Of The Electronic Unit	±0.02pX/3h
Temperature Compensation Range	(5.0～ 50.0)℃
Szie	80×85×30mm
Weight	1kg
Ambient Temperature	(5~40)℃
Relative Humidity	≤80%
Power supply	4×AAA alkaline batteries
Interference	There is no external magnetic field interference except the earth's magnetic field.
Vibration	No significant vibration

Portable Whiteness Meter

WSB-1
WSB-1Y

Introduction

The WSB series digital whiteness meter is mainly suitable for measuring the whiteness of white and near-white objects or powder surfaces. The whiteness value consistent with the visual perception can be accurately obtained. This instrument can be widely applied to the whiteness measurement of objects such as textile printing and dyeing, paint and coatings, chemical building materials, paper and paperboard, plastic products, white cement, ceramics, enamel, kaolin, talcum powder, starch, flour, table salt, detergents, cosmetics, etc.

Feature

1.AC and DC power supply, low power consumption configuration, compact and beautiful appearance design, convenient for field or laboratory use (portable whiteness meter).

2.It is equipped with a low-voltage indication, automatic shutdown and low-power consumption circuit, which can effectively extend the battery life (push-type whiteness meter).

3.It adopts a large-screen high-definition LCD liquid crystal display, which is comfortable to read and not affected by natural light.

4.It adopts low-drift high-precision integrated circuits and high-efficiency long-life light sources, which can effectively ensure the long-term stable operation of the instrument.

5.A reasonable and simple optical path design can effectively ensure the accuracy and repeatability of the measurement values.

6.With simple operation, it can accurately measure the opacity of paper.

7.National standard whiteboards are adopted to transfer standard values, ensuring accurate and reliable measurement.

Technical Parameter		
Model	WSB-1	WSB-1Y
Measuring Range	0-199	
Whiteness Formula	Blue Whiteness W_B =R_{475}	Blue Whiteness W_B =R_{475},Fluorescence whitening degree F
Light Source	LED light source	
Measuring Condition	Complies with GB/T3978 Regulation 45/0	
Displayer	LCD displayer	
Measuring Aperture	Φ15	
Resolution Ratio	0.01	
Zero Drift	≤0.2/10min	
Indication Drift	≤0.3/3min	
Measurement Repeatability	0.2	0.2
Environment Temperature	+5℃ ~ +35℃	
Relative Environmental Humidity	≤85%RH	
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter	AC /DC dual-purpose
Packaging	portable aluminum alloy packaging box	
Net Weight	1.5kg	

Benchtop Whiteness Meter

WSB-2

WSB-3

Introduction

High-precision whiteness meters can be widely applied to the whiteness measurement of objects such as textile printing and dyeing, coatings, chemical building materials, cardboard, plastic products, white cement, ceramics, enamel, clay, talcum powder, starch, flour, salt, detergents, cosmetics, etc. The opacity of paper can be calculated through measurement.

Technical Parameter				
Model	WSB-2	WSB-3	WSB-2Y	WSB-3Y
Measuring Range	0~199			
Measuring Content	Blue Whiteness W_B =R_{475}		Determine the blue light whiteness R457 and the fluorescence whiteness F	
Light Source	LED light source			
Displayer	LCD displayer			
Diameter Measurement	30			
Minimum Value	0.1			
Measurement Repeatability	0.2			
Indicator Error	±1			
Environment Temperature/Humidity	5℃ ~ 35℃/≤85%RH			
Transportation And Storage Environment	-20℃ ~ 50℃/≤90%RH			
Power Supply	AC 110-230V			

Technical Parameter		
Model	WSB-3C	WSB-CY
Measuring Range	0.00–199.99	
Whiteness Formula	Blue Whiteness W_B =R_{475}	Blue Whiteness W_B =R_{475} Fluorescence Whitening
Light Source	LED light source	
Measuring Condition	Complies with GB/T3978 Regulation 45/0	
Displayer	LCD displayer	
Measuring Aperture	Φ30	
Resolution Ratio	0.01	
Zero Drift	≤0.2/10min	
Indication Drift	≤0.3/3min	
Measurement Repeatability	≤0.3	
Environment Temperature/Humidity	+5℃ ~ +35℃/≤85%RH	
Power Supply	AC 110-230V	
Packaging	carton	
Net Weight	6.5kg	

Gloss Meter WGG-60

Detail

The WGG-60 gloss meter is designed and manufactured in accordance with the international standard ISO- 1813 and the national standard GB/T 9754. The process parameters comply with ASTM D2457, ASTM D523, GB/T13891, GB/T 7706 and GB/T 8807 standards. All technical indicators meet the metrological verification requirements of JJG 696-2002 "Mirror Gloss Meter and Gloss Plate".

Application

Measurement of the surface gloss of coatings, baking varnishes, inks, paints, etc. Measurement of the surface gloss of building decoration materials such as tiles and stones; Measurement of the glossiness of bamboo, paper and plastic surfaces; Measurement of glossiness of non-metallic and metallic surfaces.

Parameter item	Content
Reading Range	0~199.9GU
Measuring Range	0~150.0GU
Division Value	0.1GU
Indication Error	±1.2GU
Zero Error	0.2GU
Stability	0.4GU
Angle of Projection	60°
Power Supply	2×AA batteries
Weight	0.3kg
Size	129×45×73mm

Powder Press

Detail

This sample press is a dedicated device for powder sampling and is widely applicable to various powder materials (bolus alba, calcium carbonate, talcum powder, barite, activated clay, titanium dioxide, barium sulfate, magnesium oxide, flour, cement, pigments, etc.)

Portable Colorimeter

Introduction

The colorimeter uses the photoelectric colorimetric principle to test the color of water solutions. The platinum-cobalt color standard solution is used for calibration, and "PCU" is adopted as the color measurement unit. It can be widely used in power plants, pure water plants, waterworks, sewage treatment plants for daily life, beverage factories, environmental protection departments, industrial water use, winemaking industry, pharmaceutical industry, epidemic prevention departments, hospitals and other departments for color measurement, so as to meet the prescribed water quality standards. It is a precise and intelligent instrument with good linear measurement of color, accurate and reliable numerical values, and convenient operation.

Technical Parameter	
Model	SD-2
Principle	Platinum-cobalt standard colorimetric method
Measuring Range	0~500PCU
Basic Error	±5%FS
Accuracy	0.1PCU
Zero Drift	±1PCU
Repeatability	≤3%
Power Supply	5×AA battery; AC 110-230V; DC 6.5-9V adapter

Benchtop Beer Colorimeter

PSD-1
PSD-1+

Introduction

The Beer Colorimeter is suitable for the beer industry to test the color of beer. It is used to control the color of the solution and ensure it meets the specified color standards.

Principle

This instrument adopts the principle of microcomputer photoelectric colorimetric detection to replace the traditional visual colorimetric method. It eliminates human errors, thus significantly improving the measurement resolution. During the measurement process, when the water sample to be tested is placed in the photoelectric colorimetric seat, the instrument will directly display the reading.

Technical Parameter		
Model	PSD-1	PSD-1+
Measuring Range	0~9.4EBC	0~15EBC
Resolution	0.01EBC	
Repeatability	≤2%	
Indication Error	±1.5%FS	
Power Supply	AC 110-230V	

Benchtop Dual-Purpose Beer Colorimeter

PSD-2

Technical Parameter		
Model	PSD-2	
Sample	Beer	Chroma
Measuring Range	0~20EBC	0~500PCU
Resolution	0.01EBC	0.1PCU
Repeatability	≤20%	
Indication Error	±5%FS±1word	
Power Supply	AC 110-230V	

Benchtop Platinum-Cobalt Colorimeter

Introduction

The colorimeter uses the photoelectric colorimetric principle to test the color of water solutions. The platinum-cobalt color standard solution is used for calibration, and "PCU" is adopted as the color measurement unit. It can be widely applied in power plants, pure water plants, waterworks, sewage treatment plants for daily life, beverage factories, environmental protection departments, industrial water use, wine-making industries, pharmaceutical industries, epidemic prevention departments, hospitals and other departments for color measurement, so as to meet the prescribed water quality standards.

Technical Parameter						
Model	BSD-50	BSD-50AW	BSD-50BW	BSD-500	BSD-500AW	BSD-500BW
Measuring Range	0~50PCU			0~500PCU		
Accuracy	1PCU	1PCU	0.1PCU	0.1PCU	1PCU	0.1PCU
Calibration	/	2	3	/	4	4
Calibration Solution	/	0/50 PCU	0/10/50 PCU	/	0/50/250/500 PCU	0/50/250/500 PCU
Principle	Platinum-cobalt standard colorimetric method					
Basic Error	±3%FS					
Zero Drift	±1PCU					
Power Supply	AC 110-230V					

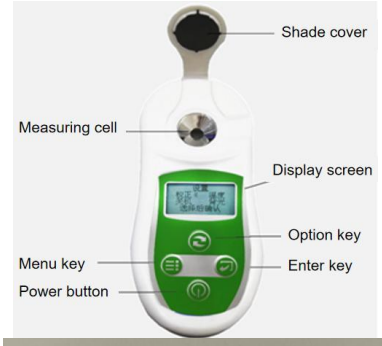
Working Condition

1.Working Environment Temperature:5~35℃； Storage temperature:-20~55℃
2.Relative Humidity of the working environment should not exceed 80%.
3.Power Supply: AC 110-230V.
4.The instrument should be placed horizontally on a stable laboratory table, avoiding direct light sources as much as possible. Also, there should be no strong magnetic interference or strong vibration sources around.
5.There should be no obvious dust or corrosive gases in the surrounding air.

Refractometer

Introduction

This series of concentration testing instruments includes coffee concentration meters, soymilk concentration meters, cutting fluid concentration meters, alcohol meters, sugar refractometers and salinity meters. It is specially designed for the rapid concentration detection of various liquid media, and widely applied in fields such as food and beverage, brewing processing, daily chemical production, mechanical manufacturing and laboratory testing.



Usage Method

1.Press the power button to turn on or off the device. After power on, it directly enters the waiting measurement interface.

2.When powered on, press the menu button to enter the menu mode.

3.The menu options are zero calibration, temperature unit selection, automatic power on/off time setting, and backlight on/off setting.

4.Press the switch button to switch options, and press the confirm button to enter the menu option.

5.After entering the corresponding menu option, press the switch button to switch options, and press the confirm button to confirm. Now return to the main menu interface.

6.Press the menu button again to exit the menu and return to the waiting measurement interface.

Daily Maintenance

1. After measurement, wipe the sample off the prism surface with lens cleaning paper. Add a few drops of water to the prism surface, then clean the prism surface and sample stage with lens cleaning paper. Do not use excessive force or rough paper and cloth, so as to avoid scratching the prism surface.

2.The instrument will automatically shut down and enter standby mode with the display off after a set time, which is normal.

3.Avoid exposing the prism surface to direct sunlight during measurement.Otherwise, it will result in inaccurate measurement.

4.Replace the battery in time when depleted to avoid leakage.

5.Keep the instrument away from water and avoid dropping or collision.

6.Avoid using organic solvents to clean the instrument.

Technical Performance				
Model	PAL-101/102	PAL-103/105	PAL-106/107	PAL-108
Measuring Sample	Brix			
Measuring Range	0.0~32.0%/0.0~53.0%	0.0~32.0%/0.0~53.0%	0.0~32.0%/0.0~53.0%	0.0~82.0%
	Temperature:10~100℃	Temperature:10~40℃		
Resolution	Brix:0.1%;Temperature:0.1 ℃			
Accuracy	Brix:±0.2% Temperature:± 1 ℃	Brix:±0.5% Temperature:± 1 ℃	Brix:±0.2% Temperature:± 1 ℃	Brix:±0.1% Temperature:± 1℃
Ambient Temperature	10 ~ 40 ℃			
Sample Volume	0.3 mL			
Measuring Time	3s			
Power Supply	2×AAA batteries			
Size	130×55×25mm			
Weight	100g			

Technical Performance			
Model	PAL-104	PAL-109	PAL-109D
Measuring Range	Salinity: 0.0 ~ 28.0%	Alcohol:0.0~75.0%	Alcohol:0.0~60.0%
	Temperature:10 ~ 100℃	Temperature:20 ~ 23℃	
Resolution	Salinity: 0.1%;Temperature:0.1℃	1% VOL;Temperature:1℃	
Accuracy	Salinity:±0.2%;Temperature:±1℃	Alcohol:±0.2%;Temperature:±1℃	
Temperature	10 ~ 40℃	20 ~ 23℃	
Sample Volume	0.3ml		
Measuring Time	3s		
Power Supply	2×AAA batteries		
Size	130×55×25mm		
Weight	100g		

Technical Performance								
Model	PAL-201	PAL-201A	PAL-201B	PAL-301H/ PAL-301L	PAL-301HB/ PAL-301LB	PAL-401	PAL-401A	PAL-401B
Resolution	0.1%	0.2%	0.5%	0.1%	0.5%	0.1%	0.2%	0.5%
Measuring Sample	Soy Milk			Cutting Fluid		Coffee		
Measuring Range	0.0~20.0%			0.0~70.0% / 0.0~35.0%		0.0~20.0%		
Ambient Temperature	20~23℃							
Sample Volume	0.3ml							
Measuring Time	3s							
Power Supply	2×AAA batteries							
Size	130×55×25mm							
Weight	100g							

Portable Ferric Ion Analyzer

BFe

Benchtop Ferric Ion Analyzer

TFe

Application

The iron ion analyzer is suitable for determining the iron ion content in surface water, groundwater, and wastewater.

Technical Parameter		
Model	TFe	BFe
Measuring Range	0~5mg/L	
Resolution	0.01mg/L	
Repeatability	0.01	
Linear Error	±5%FS	
Power Supply	AC 110-230V	5×AA batteries; AC 110-230V; DC 6.5-9V adapter
Package Size	405×295×150mm	
Weight	2.1kg	/

Portable Nickel Ion Analyzer

BNI-10

Benchtop Nickel Ion Analyzer

TNI-10

Application

The nickel ion analyzer is suitable for measuring the nickel ion content in surface water, groundwater and wastewater.

Technical Parameter		
Model	BNI-10	TNI-10
Measuring Range	0.25 mg/L to 10.00 mg/L	
Resolution	0.01 mg/L	
Repeatability	1%	
Linear Error	±5% FS	
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter	AC 110-230V
Packaging Size	405×95 ×150 mm	/
Weight	2kg	/

Portable **Manganese Ion Analyzer**

BMn-1

Benchtop Manganese Ion Analyzer

TMn-1

Introduction

The manganese ion Analyzer is used for the detection of manganese concentration in large, medium and small water plants, as well as in industrial and mining enterprises, and in domestic or industrial water supplies, in order to control the manganese content in water to meet the prescribed water quality standards.

Technical Parameter		
Model	BMn-1	TMn-1
Measuring Range	0~2.5mg/L	
Resolution	0.01mg/L	
Repeatability	≤2%	
Linear Error	±(5% FS+1 word)	
Power Supply	5×AA battery; AC 110-230V; DC 6.5-9V adapter	AC 110-230V

Portable Total Phosphorus Analyzer

BZL-1

Benchtop Total Phosphorus Analyzer

TZL-1

Principle

This instrument adopts the principle of microcomputer photoelectric colorimetric detection to replace the traditional visual colorimetric method.

Preparation

One package of total phosphorus digestion reagent powder should be diluted with pure water to a volume of 250ml. Please shake well before use.

Note

Store the reagents in a dark place at 4- 8 ℃

Technical Parameter		
Model	BZL-1	TZL-1
Measuring Range	0~1.20 mg/L	
Resolution	0.01 mg/L	
Repeatability	1%	
Linear Error	±5% FS	
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter	AC 110-230V
Packaging Size	405 × 295 × 150 mm	
Weight	1.9kg	2kg

Portable Total Nitrogen Analyzer

BZD-100

Benchtop Total Nitrogen Analyzer

TZD-100

Introduction

It is widely applied in laboratory tests of various industries, sewage treatment, colleges and universities, environmental monitoring, sewage treatment and colleges and universities, as well as research institutions. It can effectively measure the total nitrogen content in water quality of industrial wastewater, domestic sewage, surface water and groundwater.

Technicaal Parameter		
Model	BZD-100	TZD-100
Measuring Range	low range:0~25mg/L; high range:20~100mg/L	
Power Supply	AC 110-230V	
Resolution	1mg/L	
Repeatability	≤3%	
Linear Error	±5%	

Portable Ozone Analyzer

Y-615

Benchtop Ozone Analyzer

Y-616

Introduction

The ozone Analyzer is suitable for detecting the ozone concentration in domestic or industrial water used in large, medium and small-sized water plants, industrial and mining enterprises, swimming pools, etc., in order to control the ozone level in the water to meet the prescribed water quality standards.

Advantages

Small in size, easy to carry, reduces the requirements for users, and can provide reliable test results.

Technical Parameter		
Model	Y-615	Y-616
Measuring Range	0~0.96mg/L	
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter	AC 110-230V
Resolution	0.01 mg/L	
Repeatability	1%	
Linear Error	±5% FS	

Portable Ammonia Nitrogen Analyzer

Introduction

Ammonia nitrogen (NH3-N) exists in water in the form of free ammonia (NH_3) or ammonium salts (NH_4^+), and the composition ratio of the two depends on the pH value of the water. When the pH value is relatively high, the proportion of free ammonia is higher. Conversely, the proportion of ammonium salts is higher.

Technical Parameter	
Model	AD-82B
Measuring Range	0.00~10 mg/L
Indication Error	±5% FS
Repeatability	**≤3%**
Size	266×200×130 mm
Operating Conditions	(1) Environmental Temperature: 5~40℃ (2) Relative Humidity: ≤85% (3) Power Supply: 5×AA batteries; AC 110-230V; DC 6.5-9V adapter (4) No Significant vibration or electromagnetic interference, avoid direct sunlight.

Benchtop Ammonia Nitrogen Analyzer

Technical Parameter	
Model	AD-83T
Measuring Range	0.00~10.00 mg/L
Power Supply	AC 110-230V
Resolution	0.01 mg/L
Repeatability	≤ 3%
Linear Error	±5% FS

Portable Phosphate Analyzer

LSY-1B

Benchtop Phosphate Analyzer

LSY-1T

Principle

The instrument adopts the microcomputer photoelectric colorimetric detection principle to replace the traditional visual colorimetric method.

Characteristic

It features a microcomputer chip, touch-sensitive keyboard, and LCD liquid crystal display, which is both elegant appearance and convenient to use.

Technical Parameter		
Model	LSY-1B	LYS-1T
Measuring Range	0~1.84mg/L	
Resolution	0.01mg/L	
Repeatability	1%	
Linear Error	±5% FS	
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter	AC 110-230V
Packaging Size	405×295×150mm	
Weight	2kg	

Portable Nitrite Analyzer

YXSY-1

Benchtop Nitrite Analyzer

YXSY-2

Introduction

The nitrite Analyzer is suitable for detecting the nitrite concentration in domestic or industrial water used in large, medium and small-size water plants, industrial and mining enterprises, swimming pools, food safety testing institutions, and determination of nitrite concentration in food, to meet the nitrite content standards.

Principle

This instrument adopts photoelectric colorimetry instead of the traditional visual colorimetry. It eliminates human errors and significantly improves the measurement resolution.

Technical Parameter		
Model	YXSY-1	YXSY-2
Measuring Range	0~0.25mg/L	
Power Supply	5×AA battery; AC 110-230V; DC 6.5-9V adapter	AC 110-230V
Resolution	0.001mg/L	
Repeatability	1%	
Linear Error	±5% FS	

Portable Sulfate Analyzer

BLSY-200

Benchtop Sulfate Aanalyzer

LSY-200

Introdution

The sulfate analyzer adopts the microcomputer photoelectric colorimetric detection principle to replace the traditional visual colorimetric method. This significantly eliminates human errors, thereby greatly improving the measurement resolution. This instrument is applicable to domestic or industrial water for large, medium and small-sized water plants, industrial and mining enterprises, swimming pools, food safety testing institutions, etc., and is used for the detection of sulfate concentration in food, in order to meet the content standards of sulfate stipulated by various industries.

Technical Parameter		
Model	BLSY-200	LSY-200
Measurement Range	0 - 200.0 mg/L	
Resolution	0.1 mg/L	
Reproducibility	1%	
Linear Error	±5% FS	
Power Supply	5×AA battery; AC 110-230V; DC 6.5-9V adapter	AC 110-230V
Packaging Size	405×295×150mm	
Gross Weight	about 2kg	

Portable Chlorine Dioxide Analyzer

L-612

Benchtop Chlorine Dioxide Analyzer

L-613

Introduction

Chlorine dioxide analyzer is an instrument used to rapidly and accurately measure the concentration of chlorine dioxide in water or air, widely applied in water treatment, industrial processes, environmental monitoring and other fields.

Feature

The chlorine dioxide analyzer is suitable for detecting the concentration of chlorine dioxide in domestic or industrial water used in large, medium and small-sized water plants, industrial enterprises, swimming pools, etc., in order to control the chlorine dioxide content in the water to meet the prescribed water quality standards. The product is small in size, easy to carry, reduces the requirements for users, and can provide reliable test results.

Technical Parameter		
Model	L-612	L-613
Measuring Range	0~5mg/L	
Resolution	0.01mg/L	
Repeatability	1%	
Linear Error	±5%FS	
Power Supply	5×AA battery; AC 110-230V; DC 6.5-9V adapter	AC 110-230V
Packaging Size	405×295×150 mm	
Weight	2kg	

Portable Residual Chlorine Analyzer

ZYC

ZYL

ZYL10

Introduction

The residual chlorine Analyzer is suitable for detecting the residual chlorine concentration in domestic or industrial water used by large, medium and small water plants, industrial enterprises, swimming pools, etc., in order to control the residual chlorine in the water to meet the prescribed water quality standards.

Technical Parameter			
Model	ZYC	ZYL	ZYL10
Measuring Range	0.10~4.80mg/L	0~5mg/L	0~10mg/L
Power Supply	5×AA battery; AC 110-230V; DC 6.5-9V adapter	AC 110-230V	5×AA battery; AC 110-230V; DC 6.5-9V adapter
Resolution	0.01mg/L		
Repeatability	1%		
Linear Error	±(5% FS+1 word)		

Benchtop Residual Chlorine Analyzer

Technical Parameter		
Model	YL-1Z	YL-10Z
Measuring Range	0~5mg/L	0~10mg/L
Power Supply	AC 110-230V	
Resolution	0.01mg/L	
Repeatability	1%	
Linear Error	±5% FS	

Portable Urea Analyzer

NS-1B

Benchtop Urea Analyzer

NS-1T

Application

The urea analyzer is suitable for water quality testing in both indoor and outdoor swimming pools, as well as in various water treatment plants, to ensure that the urea content in the water meets the prescribed water quality standards.

Technical Parameter		
Model	NS-1B	NS-1T
Measuring Range	0~10mg/L	
Resolution	0.1mg/L	
Repeatability	≤ 2%	
Indication Error	±5%FS	
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter	AC 110-230V

Portable Total Suspended Solids Analyzer

Introduction

The Suspended Solids Analyzer is an instrument used to measure the content of suspended particles produced by insoluble particles suspended in water (or transparent liquids). This instrument can be widely applied in water treatment plants, food, chemical, metallurgical, environmental protection and pharmaceutical industries and other departments.

Technical Parameter			
Model	SS-100BE	SS-500B	SS-500BE
Measuring Range	0 ~ 100mg/L	0 ~ 500mg/L	0 ~ 500mg/L
Accuracy	0.1mg/L	1mg/L	0.1mg/L
Power Supply	5×AA batteries; AC 110-230V; DC 6.5-9V adapter		

Benchtop Total Suspended Solids Analyzer

Technical Parameter			
Model	SS-100TE	SS-500T	SS-500TE
Measuring Range	0 ~ 100mg/L	0 ~ 500mg/L	0 ~ 500mg/L
Accuracy	0.1mg/L	1mg/L	0.1mg/L
Power Supply	AC 110-230V		

Online Industrial pH/ORP Controller

Introduction

The online industrial pH/ORP controller is an intelligent upgrade product of industrial pH controller, which can continuously measure and control the pH value of sewage. This device is suitable for urban sewage treatment plants, chemical industry, printing and dyeing, papermaking, pharmaceuticals, electroplating and environmental protection and other fields.

According to the environment and characteristics of water industry, combined with international power supply standards, considering the electrical design specifications for special environments, 110-230V AC and safe low-voltage 24V AC and 24V DC power supply options are added.

Feature

1. Factory standard configuration Chinese interface, linguistic menu.
2. It can carry out PH/ORP measurement, upper and lower limit control, current output, digital communication.
3. Can be set to automatic temperature compensation or manual compensation.
4. PH high limit alarm, low limit alarm two-way relay, hysteresis can be adjusted freely.
5. Isolated transmission port in instrument mode, the maximum loop resistance is greater than 300Ω.
6. Voice alarm can be switched on or off through interface options.
7. The LCD backlight can choose energy-saving mode, and it will automatically turn off at regular intervals.
8. High-performance CPU, good electromagnetic compatibility performance.
9. Password management function to prevent misoperation by non-professionals.

Technical Parameter	
Model	PH-110/ORP-110
Measurement Range	pH (0-14); ORP (±1900 mV)
Accuracy	±0.02 pH; ±1 mV
Resolution	0.01 pH; 1mV
Stability	≤ 0.02 pH/24 h; ≤ 3 mV/24 h
Standard Solution	pH 4.00/6.86/9.18
Display Mode	128×64 dot matrix LCD
Temperature Compensation	0-100 °C manual/automatic (NTC10K)
Signal Output	4-20mA isolation protection output;maximum loop resistance 300Ω
Alarm Output	one set of high and low limit alarm contacts (3A/250V AC), normally open contact relay
Power Supply	AC 110-230V
Power Consumption	≤ 3 W
Ambient Conditions	(1) Temperature 0 ~ 60 °C (2) Humidity ≤ 85% RH
Size	96×96×110 mm

Online Industrial DO Controller

DO220

Technical Parameter	
Model	DO220
Measurement Range	0~20.00 mg/L
Resolution	0.01 mg/L
Error	±0.3 mg/L
Power Supply	AC 110-230V
Power Consumption	≤ 3 W
Ambient Conditions	(1) Temperature 0 ~ 60 °C (2) Humidity ≤ 85% RH
Size	96×96×110mm
Opening Size	92×92mm

Introduction

The industrial online dissolved oxygen controller is an intelligent online continuous real-time monitoring instrument, and the sensor adopts polarographic film-covered dissolved oxygen electrode. The instrument is widely used in power plants, petrochemical industry, metallurgy electronics, mining industry, paper industry, biological fermentation, medicine, food and beverage, environmental protection water treatment, breeding and other industries.

Instrument calibration

This instrument adopts two-point calibration.Select instrument calibration in the setting menu, enter with "OK" key, zero calibration first and then saturation calibration.Please prepare a cup of anaerobic water and a cup of saturated dissolved oxygen water first (for the method of preparing anaerobic water and saturated dissolved oxygen water, see Annex 1 for details).

1.Zero calibration (zero calibration for anaerobic water):

Clean the electrode in clean distilled water (tap water can be replaced), put it in anaerobic water , stir with the electrode, and press the "OK" key for zero calibration when the value shows stability.

2.Preparation of anaerobic water:

Take a pack of reagent A, add 30ML distilled water or tap water, cover and shake well. (The lid is tightly closed and can be stored in the dark for a month)

3.Saturated dissolved oxygen calibration:

Clean the electrode in clean distilled water (tap water can be replaced), press the switch key to select the saturation calibration option, put in saturated dissolved oxygen water, stir with the electrode, and press the "OK" key for saturation calibration when the value shows stability.

4.Preparation of Saturated Dissolved Oxygen Water:

Take about 500 ML of tap water, aerate it with an oxygen pump for 5 minutes, then start the calibration.

Carbon Dioxide Ion Electrode

Iodide Ion Electrode

Fluoride Ion Electrode

Fluoroborate Ion Electrode

Calcium ion electrode

Kalium Ion Electrode

Chloride Ion Electrode

Sodium Ion Electrode

Cuprum Ion Electrode

Nitrate Electrode

Hydrated (Calcium Ion) Electrode

Electrode	Model	Description	Measuring Range	Optimum PH Range	Respons Time	Membrane Resistance	Temperatur Range	Potentiometric Selective Coefficients	Standard Solution
Fluoride	F201	Crystal	$1\sim5\times10^{-7}MF^-$ (19000~0.01ppm)	5~6	<5min	<10MΩ	5~60℃	OH^-	NaF
Chloride	CL201	Solid state	$10^{-2}\sim5\times10^{-5}MCl$ (35500~1.8ppm)	2~12	<2min	<0.5MΩ	0~60℃	$I^-(2\times10^2)$ $NO_3^-(10^{-4})$;$SO_4^{2-}(10^{-4})$ $Br^-(4\times10^2)$;$CN^-(2\times10^2)$ Grave interference by sulphurion	NaCl
Bromide	Br201	Solid state	$1\sim5\times10^{-6}MBr^-$ (79000~0.4ppm)	2~11	<2min	<0.5MΩ	0~60℃	$I^-(2.6)$;$Cl^-(1\times10^{-5})$ $NO_3^-(3.8\times10^{-4})$; $SO_4^{2-}(10^{-4})$ Grave interference by sulphurion	NaBr
Iodide	I201	Solid state	$10^{-2}\times5\times10^{-7}MI^-$ (127000~0.06ppm)	2~12	<2min	<0.5MΩ	0~60℃	$Cl^-(2\times10^{-6})$;$Br^-(1\times10^{-6})$ $NO_3^-(2\times10^{-7})$; $SO_4^{2-}(7\times10^{-7})$; $HPO_4^{2-}(8.3\times10^{-7})$	KI
Cyanide	H201	Solid state	$10^{-2}\sim10^{-6}MCN^-$ (260~0.03ppm)	≥7	<2min	<0.5MΩ	0~60℃	Main interference ions:S^{2-};I^-;Hg^{2+}	NaCN
Mercury	Hg201	Solid state	$10^{-1}\sim5\times10^{-6}MHg^{2+}$ (20000~1ppm)	3~5	<2min	<0.5MΩ	0~60℃	Interference by silver ions	Hg^{2+}
Silver/Sulfide	Ag201	Solid state	$10^{-1}\sim10^{-7}M$ (108000~0.01ppm)Ag^+ (3200~0.003ppm)S^{2-}	2~12 >12	<2min	<0.5MΩ	0~60℃	Noninterference ions:F^+;NO_3^-;I^-;Cl^-	Silver:$AgNO_3$ Sulfide:NaS

Electrode	Model	Description	Measuring Range	Optimum PH Range	Respons Time	Membrane Resistance	Temperature Range	Potentiometric Selective Coefficients	Standar Solution
Plumbum	Pb201	Solid state	$10^{-1}\sim5\times10^{-7}MPb^{2+}$ (20700~0.1ppm)	3~6	<2min	<0.6MΩ	0~60℃	$Fe^{3+}(2.7)$;$Cu^{2+}(1\times10^3)$; $Mg^{2+}(4\times10^{-6})$;$Ba^{2+}(2\times10^{-5})$; $Ca^{2+}(6\times10^{-6})$;$Zn^{2+}(2\times10^{-5})$	$PbNO_3$
Cuprum	Cu201	Solid state	$1\sim5\times10^{-7}MCu^{2+}$ (63500~0.012ppm)	3~5	<2min	<0.5MΩ	0~60℃	Noninterference ions: K^+;Ca^{2+};Ba^{2+};Zn^{2+};Fe^{2+} Interference ions:S^{2-};Fe^{3+}	$CuNO_3$
Cadmium	Cd201	Solid state	$10^{-1}\sim5\times10^{-7}MCd^{2+}$ (11200~0.05ppm)	3~10	<2min	<0.5MΩ	0~60℃	Noninterference ions: K^+;Na^+ Interference ions: Hg^{2+};Pb^{2+};Ag^+;S2-	$CdNO_3$
Micro-Kalium	K401	PVC	$10^{-1}\sim5\times10^{-7}MK^+$ (3900~0.02ppm)	3.5~10.5	<3min	<30MΩ	0~45℃	$Na^+(3\times10^{-3})$; $Ca^{2+}(1\times10^{-5})$;$Li^+(1\times10^{-3})$	KCl
Calcium	Ca201	PVC	$10^{-1}\sim5\times10^{-6}MCa^{2+}$ (4000~0.2ppm)	5~10	<3min	<10MΩ	0~45℃	$K^+((1\times10^{-4})$;$Na^+(1\times10^{-4})$; $Zn^{2+}(7\times10^{-1})$;$Ba^{2+}(3\times10^{-5})$; $Mg^{2+}(1\times10^{-3})$;$Fe^{3+}(1)$	CaCl
Nitrate	$NO_3$201	PVC	$1\times10^{-6}MNO_3^-$ (62000~0.062ppm)	2.5~9	<3min	<10MΩ	5~45℃	$Cl^-(4.9\times10^{-2})$; $SO_4^{2-}(4\times10^{-5})$; $H_2PO_3^-(1\times10^{-4})$	$NaNO_3$
Fluoroborate	FPSG2	PVC	$10^{-1}\sim3\times10^{-6}MBF_4^-$ (8600~0.3ppm)	3~11 ($10^{-1}\sim10^{-4}MBF_4^-$)	<3min	<1MΩ	5~40℃	$SO_4^{2-}(2.5\times10^{-6})$;$F^-(3\times10^{-6})$; $Br^-(10^{-3})$; $NO_3^-(6.5\times10^{-3})$;$Cl^-(6\times10^{-5})$; $I^-(8\times10^{-2})$;$CNS^-(0.25)$	$NaBF_4$

Electrode	Model	Description	Measuring Range	Optimum PH Range	Respons Time	Membrane Resistance	Temperature Range	Potentiometric Selective Coefficients	Standard Solution
Vater hardness	YGa201	PVC	$10^{-1}\sim5\times10^{-5}M$	2~9	<3min	<10MΩ	0~40℃	$Na^+(1)$;$K^+(1\times10^{-1})$	Ca^{2+},Mg^{2+}
Ferric	Fe201	$FeCl_4$ PVC	$10^{-1}\sim1\times10^{-4}MFe^{3+}$ (35500~1.8ppm)	<2	<2min	<2MΩ	0~45℃	NO_3^-,SO_4^{2-},Cl^- $Zn^{2+}<Hg^{2+}<Fe^{2+}<Sn^{2+}$	Fe^{3+}
Ammonia	A201	Gas sensor	$1\times10^{-6}M$ (18000~0.018ppm)	>11	<5min	<300MΩ	0~60℃	Inteference by volatile amines	NH_4Cl
Carbon dioxide	CO_2	Gas sensor	$10^{-2}\sim5\times10^{-5}M$ (480~1ppm)		<5min	<300MΩ	0~60℃	Interference by volatile weak acid	$NaHCO_3$
Hydrothion	LHH2	Gas sensor	$10^{-2}\sim5\times10^{-7}M$ (480~1ppm)						
Sulfur dioxide	RYHL2	Gas sensor	$10^{-2}\sim10^{-5}M$						
Sodium	Na201	Glass	$1\sim10^{-7}MNa^+$ (23000~0.002ppm)			<50MΩ	5~80	H^+(20~30) K^+(1/20~1/30)	

Composite pH Electrode

Usage

This type of electrode is composed of a pH-sensitive glass electrode and a silver-chloride silver reference electrode. Due to the use of plastic as the outer shell, it has excellent light-blocking properties and is not prone to breakage. It can be used to measure the pH value of aqueous solutions without the need for an additional reference electrode.

Technical Parameter					
Model	87-1	92-1	92-1A	92-2	92-2A
Zero-potential pH Value	7±1pH	7±1pH	2±1pH	7±1pH	2±1pH
Measurement Range	0~14pH				
Solution Temperature	5~60°C				
Internal Resistance	≤ 120 MΩ(at 25°C)				
Total Electrode Length (including electrode cap)	about 78mm	about 160mm			
Connection Type	Special plugs are directly attached to the electrode caps	With connecting wires and universal plugs			
Additive Solution	No need for additional information			3.3NKCl saturated with AgCl	

Precaution

1.When the electrode is not in use, it should be inserted into the protective bottle, the bottle cap tightened, and it should be stored in a sealed state.

2.During use, the liquid contact parts of the bulb and the external reference electrode should be fully immersed in the measurement solution. When measuring another solution, it is necessary to first clean them in distilled water to prevent impurities from being carried into the solution.

3.Fill the electrode protection cap with 3.3NKCl solution.

4.The electrode cannot be used in non-aqueous solutions.

5.The insulating part of the electrode plug should be kept clean and dry.

6.When the special plug attached to the electrode cap is connected to the socket. It is necessary to prevent any poor conductivity problems that may occur after long-term use.

Otherwise, there will be issues such as random fluctuations in the instrument's numbers and inaccuracies. If this phenomenon is detected, a needle can be used to slightly move the elastic spring inside the plug (or socket) towards the center, making it securely contact.

Glass Composite pH Electrode

Technical Parameter	
Model	95-1
Measuring Range	0~14pH
Measuring Temperature	0~80℃
Zero	7±0.5pH
Alkalinity Error	<15mV
PTS	>98
Response Time	<2 min
Internal Resistance	<250 MΩ
Repeatability	<0.017
Noise	<0.5 mV

Usage

This electrode is composed of a pH glass electrode and a silver chloride reference electrode. It serves as the measuring component of a pH meter and is used to measure the pH of aqueous solutions.

Precaution

1.When the electrode is used for the first time or is reactivated after being unused for a long time,immerse the electrode bulb and sand core in the 3NKCl solution for activation for 8 hours.

2.The electrode plug should be kept clean and dry.

3.The external reference solution of the electrode is 3NKCl solution.

4.During the measurement process, it is necessary to prevent cross-contamination between solutions to avoid affecting the measurement accuracy.

5.If the electrode bulb or sand core becomes contaminated, the PTS value will decrease and the response will slow down. Therefore, after measuring the flow rate, the electrode performance should be restored by cleaning it with a solution suitable for the nature of the measured contaminant.

6.The electrodes should be prevented from being immersed in acidic fluoride solutions for an extended period of time.

When using the electrodes, the rubber bands covering the ceramic sand core and the liquid addition port should be removed to ensure that the salt bridge solution maintains a certain flow rate, and then the electrodes can be used.

Corrosion-Resistant pH Electrode

Introduction

This electrode is made of low-impedance glass-sensitive membrane and can be used for pH measurement under various conditions.

It has good reproducibility, is not prone to hydrolysis, and the alkalinity error is basically eliminated. The reference system composed of Ag/Agcl and gel electrolyte salt bridge has stable half-cell potential and excellent anti-pollution performance.

The ring-shaped polytetrafluoroethylene membrane is not prone to clogging and can be directly used with domestic and foreign pH instruments.

Precaution

1. During the measurement process, distilled water (or deionized water) should be first cleaned and dried with filter paper to prevent impurities from entering the liquid being measured. The electrode bulb and the liquid mass should be completely immersed in the liquid being tested.

2. When not using the electrode, apply 3.5m potassium chloride solution for cleaning and insert it into the protective cover, or insert the electrode and add 3.5m potassium chloride.

3.Check if the terminals are dry. If there are any stains, wipe them with absolute alcohol and then use it.

4.Avoid prolonged immersion in distilled water or protein solutions, and avoid contact with silicone oil.

5.If the electrode is used for a long time, its glass coating may become transparent or deposit substances. At this point, it can be washed with hydrochloric acid.

6.It is recommended that users clean the electrodes once a month and calibrate the instrument accordingly.

7.If the electrodes are maintained and protected by the above methods, the calibration procedure and normal measurements cannot be carried out, and the indicator electrodes will no longer be usable.

To restore the response, please replace the electrode.

Pressure resistance: 0.6 MPa.

Installation dimensions: 3/4 NPT pipe threads on both the top and bottom.

Material: Polytetrafluoroethylene

Connection: Low-noise cable direct lead wire

Flat Tip pH Electrode

Usage

This electrode is composed of a pH glass electrode and a silver chloride reference electrode. It serves as the measuring component of a pH meter and is used to measure the pH of aqueous solutions.

Technical Parameter	
Model	E-201-M
Measuring Range	0~14PH
Measuring Temperature	0~60℃
Zero	7±0.5PH
Alkalinity Error	<15mV
PTS	>98
Response Time	<2min
Internal Resistance	<250MΩ
Repeatability	<0.017
Noise	<0.5mV

Online Industrial pH Electrode

Characteristic

1. Utilizing internationally advanced solid dielectric materials and large-area polytetrafluoroethylene liquid interface, it is less prone to clogging and easier to maintain.

2. The long-term reference diffusion path significantly extends the service life of the electrode in harsh environments.

3.It adopts PPS/PC casing, with 3/4 npt pipe threads on both the top and bottom. The installation is convenient and no outer cover is required, thus saving the installation cost.

4.The electrodes are equipped with high-quality low-noise cables, enabling the signal output to exceed 40 meters without any interference.

5.No need to replenish the charging medium, and the maintenance requirements are low.

6.High measurement accuracy, fast response,and good repeatability.

7. Silver ion Ag/AgCl reference electrode.

8. With proper use, it has a long lifespan.

9. It can be installed horizontally or vertically in the reaction tank or pipeline.

10.The electrode can be interchanged with similar external electrodes for use.

Precaution

1.In the protective bottle at the front end of the electrode, there is an appropriate amount of 3.3 mKCL solution. This solution is immersed in the electrode head to maintain the activation of the glass ball and the liquid interface. During measurement, the protective bottle is loosened, the electrode is pulled out, and then rinsed with deionized water.

2.Before the measurement, the bubble inside the glass bubble should be shaken; otherwise, it will cause measurement errors. During the measurement process, the electrode should be placed in the test solution and stirred to accelerate the response.

3.Check whether the joints are dry and clean. If there are any stains, they should be cleaned with isopropyl alcohol and then dried before use.

4. It is recommended to calibrate the electrodes using the two-point method. Usually, the electrodes should be first calibrated with a pH 6.86 buffer solution, and the slope should be determined using a pH 4.01 or pH 9.18 buffer solution.

5.After use, clean the electrodes thoroughly, insert them into the protective bottle, tighten the bottle cap to prevent the solution from leaking.

6.The electrodes should be cleaned regularly. If the liquid in the glass ball and polytetrafluoroethylene ring of the electrode gets contaminated, the following reagents can be used for cleaning. A.Surfactant cleaning. B.Use 10% dilute hydrochloric acid to clean calcium precipitates or metal hydroxides.C.Sulfide precipitates can be cleaned with 10% dilute hydrochloric acid.D. Protein attachments can be cleaned with a mixture of 10% dilute hydrochloric acid and pepsin.

Conductivity Electrode

Usage

The conductive electrode is made of pure platinum sheet or pure platinum ring and serves as the measuring element of the conductivity meter. It is used to measure the conductivity of liquids or as an indicator electrode for conductometric titration.

Model	DJS-0.1	DJS-1	DJS-10
Vessel constant	0.1±0.02	1±0.2	10±2

Precaution

1.The conductive electrodes come in two types: shiny and platinum-coated black. The purpose of the platinum-coated black is to increase the effective area of the electrode sheet and prevent and reduce electrode polarization when measuring the conductivity of solutions with high conductivity. Therefore, using platinum-coated black electrodes is more suitable.

2.Before using the platinum black electrode, it can be immersed in distilled water to prevent the black platinum from oxidizing. If the platinum black electrode malfunctions, it can be immersed in deionized water for 2 minutes, then cleaned with distilled water and measured.

3. If the platinum black coating peels off or fades, the platinum black needs to be re-electrified to ensure the accuracy of the measured data.

4. The electrode constant of the conductance cell marked on the electrode at the time of manufacture is only for reference. To verify the accuracy of the marked conductance cell constant, one can refer to the temperature and concentration of the standard solution being measured, look up the corresponding conductance C of the standard solution, and then calculate the conductance cell constant K based on the actual measured display value P of the conductance meter: K = C/P.

DO Electrode

Technical Parameter	
Measuring Range	dissolved oxygen:(0~20)mg/L
	temperature:(0~40℃)
Basic Error	dissolved oxygen:±0.3mg/L
	temperature:±1℃
Response Time	No more than 30 seconds (20℃ within 90% of the time)
Automatic Temperature Compensation Range	(0~40℃)

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