



Water Quality Analyzers
(Sensor Series)

INSTRUMENTATION
ENVIRONMENTAL
MONITORING

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Wuxi Wohuan Instrument Technology Co., Ltd.



Wuxi Wohuan Instrument Technology Co., Ltd. is a high-tech enterprise specializing in the development, production, and sales of various instruments and meters. The company focuses on big data platforms, energy storage microgrid management, online environmental monitoring, and industrial process instrumentation.

With a commitment to excellence and customer service, Wohuan Technology provides safe, eco-friendly products and automation solutions. The company excels in IoT chip design, sensor innovation, big data processing, cloud computing, and AI algorithms, offering intelligent monitoring and management solutions for urban energy, water environments, sewage systems, and river maintenance.

Main products include: trace moisture analyzers, concentration analyzers, pressure transmitters, level transmitters, temperature transmitters, radar level meters, gas detectors, pH meters, oxidation-reduction potential (ORP) meters, conductivity meters, dissolved oxygen (DO) meters, residual chlorine meters, turbidity meters, sludge concentration meters, sludge interface meters, water salinity meters, COD analyzers, ammonia nitrogen analyzers, BOD analyzers, total phosphorus analyzers, total nitrogen analyzers, five-parameter analyzers, spectrophotometers, ultrasonic level meters, various flow meters, flow totalizers, wireless data collectors, RF admittance level controllers, gas analyzers, VOC, TVOC, and system-compatible PLCs, DCS, etc. These products are widely used in environmental protection, sewage treatment, heating, water supply, petroleum, chemical, power, machinery, metallurgy, pharmaceutical, food, automotive, textile, and light industries. The company is recognized for its reliable products and excellent after-sales service.

Corporate Culture:

Mission: To create a better life for customers, provide a growth platform for employees, and deliver optimal benefits to society.

Spirit: Strive for excellence and continuously improve.

Safety Philosophy: Pursue safe development and ongoing improvement.

Service Philosophy: Communicate with care and serve with love.

Talent Philosophy: Select and appoint the capable, ensuring everyone reaches their full potential.

Learning Philosophy: Study diligently, think wisely, and apply knowledge effectively.



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Digital Electrode

◆ Digital pH Sensor



Model	WHPH-768		
Meas. Method	Glass electrode method	Supply Volt.	12 or 24VDC±10%
Meas. Range	0~14pH	Prod. Dim.	Diameter 30mm; Length 204mm
Accuracy	±0.1pH	Protection	IP68; Submersible up to 20m
Resolution	0.01pH	Output Signal	RS-485(Modbus/RTU)
Op Cond	0~50°C; <0.3MPa	Lifespan	Sensor 1 year or more
Calib. Method	Two-point calibration	Cable Length	Standard 10m, customizable
Response Time	60 seconds T90	Housing Mat.	POM; Customizable
Temp. Comp.	Auto Temp Comp (NTC)	Applications	General use, industrial, EP, rivers, lakes, etc.

◆ Digital ORP Sensor



Model	WHORP-768		
Meas. Method	Glass electrode method	Signal Output	RS-485, MODBUS/RTU protocol
Meas. Range	-1500~+1500mV	Prod. Dim.	Diameter 30mm; Length 189mm
Accuracy	±6mV	Protection	IP68; Submersible up to 20m
Resolution	1mV	Lifespan	Sensor 1 year or more
Op Cond	0~50°C; <0.3MPa	Cable Length	Standard 10m, customizable
Calib. Method	One-point calibration	Housing Mat.	POM; Customizable
Response Time	60 seconds T90	Applications	General use, industrial, EP, rivers, lakes, etc.
Supply Volt.	12~24VDC		

◆ Digital Conductivity Sensor



Model	WHEC-768		
Meas. Method	Electrode Contact Method	Housing Mat.	POM
Meas. Range	0~5000µS/cm	Installation	Immersion Installation, 3/4" NPT Thread
Resolution	1	Cable Length	Standard 10m, customizable
Accuracy	±1.5%F.S.; ±0.3°C	Temp. Comp.	Automatic Temp Comp (Pt1000)
Op. Temp	0~50°C	Calibration	Two-Point Calibration
OP. Press.	<0.3MPa	Power	0.3W, 24V
Supply Volt.	12~24VDC	Protection	IP68
Output Signal	RS-485(Modbus/RTU)	Applications	Rivers, lakes, drinking water, industrial use, etc.

◆ Digital Dissolved Oxygen Sensor



Model	WHDO-768		
Meas. Method	Fluorescence Method	Cable Length	Standard 10m, customizable
Meas. Range	0~20.00mg/L	Power	0.3W, 24V
Resolution	0.01mg/L, 0.1°C	Supply Volt.	12~24VDC
Accuracy	±2%F.S.; ±0.3°C	Protection	IP68
Temp. Comp.	Automatic Temp Comp (Pt1000)	Calibration	Two-Point Calibration
Output Signal	RS-485, MODBUS/RTU Protocol	Membrane Lifespan	1 year (under normal use)
Op Cond	0~50°C, <0.3MPa	Housing Mat.	POM and 316L Stainless Steel
Storage Temp	-5~65°C	Applications	General applications, rivers, lakes, drinking water, EP, etc.
Installation	Immersion Installation		

Digital Electrode

◆ Digital Turbidity Sensor



Model	WHNT-768		
Principle	Signal Output	Storage Temp	-5~65°C
Meas. Range	0~1000.0NTU	Housing Mat.	POM
Resolution	0.1NTU/0.1°C	Installation	Immersion Installation, 3/4" NPT Thread
Accuracy	±5% or ±3NTU	Cable Length	Standard 10m, customizable
Calib. Method	Two-Point Calibration	Power	0.3W, 24V
Temp. Comp.	Automatic Temp Comp (Pt1000)	Supply Volt.	12~24VDC
Output Signal	RS-485(Modbus/RTU)	Protection	IP68
Op Cond	0~50°C, <0.3MPa	Applications	General applications, rivers, lakes, EP, etc.

◆ Digital Suspended Solids (SS) Sensor



Model	WHWS-768		
Meas. Method	Infrared absorption method	Max. Pressure	6 bar
Principle	135° backscatter light	Calib. Method	1 or 2 points
Meas. Range	0.5~4000mg/L	Power Supply	DC 9~24V, <50mA (when not cleaning)
Resolution	0.1mg/L	Sensor Dim.	Φ36mm*189mm
Accuracy	±5%	Cable Length	10m (default, customizable)
Temp. Range	0~50°C (non-freezing)	Housing Mat.	Titanium alloy
Protection	IP68	Applications	General use, rivers, lakes, EP, etc.

◆ Digital Residual Chlorine Sensor



Model	WHCL-768		
Meas. Range	0.00~20.00mg/L	Membrane No.	H4010 Cl-sensitive Membrane
Resolution	0.01mg/L	Pol. Voltage	50mV
Accuracy	±1%FS	Flow Rate	100~250ml/min
Temp. Range	0.0~60.0°C	Proc. Conn.	G3/4
Temp. Comp.	Automatic/Manual	Elec. Conn.	Direct output with 5m signal cable
Output Signal	4~20 mA, RS485 (MODBUS-RTU)	Protection	IP68
Supply Volt.	24 VDC, 12 VDC (Recommended)	Applications	General use, rivers, lakes, drinking water, EP, etc.
Calib. Method	Lab comparison method		
Housing Mat.	PC + Stainless Steel		

◆ Digital Hardness (Calcium Ion) Sensor



Model	WHCA-768		
Meas. Method	Ion-selective method	Supply Volt.	12~24VDC
Meas. Range	0~1000mg/L (pH range 3~10)	Protection	IP68; Submersible up to 20m
Accuracy	±5%F.S.	Output Signal	Supports RS-485, MODBUS/RTU protocol
Resolution	0.1mg/L	Lifespan	Sensor 1 year or more, Membrane head 6 months
Op Cond	0~50°C; <0.3MPa;	Cable Length	Standard 10m, customizable
Calib. Method	Two-point calibration	Housing Mat.	POM; Customizable
Response Time	60 seconds T90	Applications	General use, rivers, lakes, drinking water, EP, etc.
Temp. Comp.	Automatic temp comp (Pt100)		

Digital Electrode

◆ Digital Fluoride Ion Sensor



Model	WHFU-768		
Meas. Range	0~30000ppm	Press. Range	0~3bar
pH Range	5~7 pH (1x10-5 M), 5.11 pH (at saturation)	Housing Mat.	PBT Anti-corrosion
Resolution	0.001ppm	Membrane No.	H1020
Accuracy	±1%	Proc. Conn.	NPT3/4
Temp. Range	0~60°C	Elec. Conn.	Direct 5m signal cable
Temp. Comp.	Automatic/Manual	Protection	IP68
Output Method	4~20mA, RS485(MODBUS-RTU)	Application	General use, rivers, lakes, drinking water, industrial applications, etc.
Supply Volt.	24 VDC, 12 VDC (recommended)		

◆ Digital Chloride Ion Sensor



Model	WHLL-768		
Meas. Range	1.8ppm~35500ppm	Press. Range	0~3bar
pH Range	2~12pH	Housing Mat.	PBT Anti-corrosion
Resolution	0.001 ppm	Membrane No.	H1020
Accuracy	±1%	Proc. Conn.	NPT3/4
Temp. Range	0~60°C	Elec. Conn.	Direct 5m signal cable
Comp. Mode	Automatic/Manual	Protection	IP68
Output Method	4~20mA, RS485(MODBUS-RTU)	Application	General use, rivers, lakes, drinking water, EP, etc.
Supply Volt.	24 VDC, 12 VDC (recommended)		

◆ Digital Salinity Sensor



Model	WHYD-768		
Meas. Method	EM Electrode Method	Housing Mat.	ABS (default) / POM
Meas. Range	0~70.0PSU	Installation	Immersion, 3/4" NPT pipe thread
Resolution	0.1PSU	Cable Length	Standard 10m, customizable
Accuracy	±1.5%F.S., ±0.5°C	Temp. Comp.	Automatic temperature compensation (Pt1000)
Op. Temp	0~50°C	Calib. Method	Two-point calibration
OP. Press.	<0.6MPa	Power	0.3W, 24V
Supply Volt.	12~24VDC	Protection	IP68 with anti-corrosion
Output Signal	RS-485(Modbus/RTU)	Application	General use, rivers, lakes, drinking water, EP, etc.

◆ Digital (Nitrite) Nitrate Sensor



Model	WHXS-768		
Meas. Method	Ion Selective Method	Temp. Comp.	Automatic temperature compensation (Pt100)
Meas. Range	0~1000mg/L	Supply Volt.	12~24VDC
Accuracy	±5%F.S.	Protection	IP68; Submersible up to 20m
Resolution	0.1mg/L	Output Signal	Supports RS-485, MODBUS/RTU protocol
Op Cond	0~50°C; <0.3MPa;	Lifespan	Sensor 1 year or more, Membrane 6 months
Calib. Method	Two-point calibration	Cable Length	Standard 10m, customizable
Response Time	60 seconds (T90)	Housing Mat.	POM; Customizable

Digital Electrode

◆ Digital Ammonia Nitrogen Sensor



Model	WHNH-768		
Meas. Method	Ion Selective Method	Supply Volt.	12~24VDC±10%
Meas. Range	0~100mg/L	Output Signal	RS-485, Modbus/RTU protocol
Resolution	0.1mg/L	Junction	PVC and POM
Accuracy	±5% F.S.	Installation	3/4" NPT thread, immersion installation
Op. Temp.	0~50°C	Cable Length	Standard 10m, customizable
OP. Press.	<0.3MPa	Calib. Method	Two-point calibration
pH Range	4~10 pH	Power	0.3W, 24V
Temp. Comp.	Automatic temp comp (Pt100)	Protection	IP68

◆ Digital Chlorophyll Sensor



Model	WHLC-768		
Meas. Method	Fluorescence Method	Signal Output	RS-485, MODBUS Protocol
Meas. Range	0~400 µg/L or 0~100 RFU	Power	DC 5~12 V, I <50 mA (when not cleaning)
Resolution	0.1 µg/L	Housing Dia.	33 mm
Protection	IP68	Housing Len.	238.06 mm
Max. Depth	10 meters underwater	Cable Length	Standard 10m, customizable
Temp. Range	0~50°C	Housing Mat.	POM or Stainless Steel

◆ Digital COD Sensor



Model	WHCOD-768		
Meas. Method	UV Absorption Method	Turb. Accuracy	±5% F.S
COD Meas. Range	0~500/0~1500mg/L equiv KHP	Turb. Resolution	0.01NTU
COD Accuracy	±5% F.S. equiv KHP	Temp. Range	0~50°C(non-freezing)
COD Resolution	0.01mg/L	Housing Protection	IP68
TOC Meas. Range	0~600mg/L equiv KHP	Max. Pressure	3 bar
TOC Accuracy	±5% F.S. equiv KHP	Power Supply	12V
TOC Resolution	0.01mg/L	Cable Length	Standard 10m, customizable
Turb. Meas. Range	0~500 NTU	Housing Mat.	POM and 316L (Ti Alloy customizable)

Conventional Electrode Series

◆ PH/ORP Electrode



Model	WH1800	WH1801	WH1803	WH1805
Meas. Range	0~14pH	0~12pH	0~14pH	0~14pH
pH Zero Point	7.00 ±0.25	7.00 ±0.25	7.00 ±0.25	7.00 ±0.25
Temp. Range	0~90°C	0~90°C	0~90°C	0~90°C
Press. Range	0~0.6MPa	0~1.0MPa	0~1.0MPa	1.0MPa~2.0MPa
Temp. Sensor	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000
Housing Mat.	PP	PP	PP	PP
Rmem	<600MΩ	<500MΩ	<500MΩ	<500MΩ
Ref. System	Ag/AgCl/KCl	SNEX Ag/AgCl/KCl	SNEX Ag/AgCl/KCl	SNEX Ag/AgCl/KCl
Junction	Porous Ceramic	SNEX	Porous Ceramic	SNEX
Electrolyte Sol	3.3M KCl gel	3.3M KCl gel	3.3M KCl	3.3M KCl
Dual Salt Bridge Sys	Yes	Yes	Yes	Yes
Conn. Thread	NPT3/4"	NPT3/4"	NPT3/4"	NPT3/4"
Cable Length	10m or customizable	10m or customizable	10m or customizable	10m or customizable
Cable Connector	Pin + BNC or customizable	Pin + BNC or customizable	Pin + BNC or customizable	Pin + BNC or customizable
Applications	Strong acids/ alkalis, chemical proc.	HF acid concentration <1000 ppm	Suitable for seawater	Viscous liquids, proteins, petrochemicals

Model	WH1810	WH1811	WH1813	WH1815
Meas. Range	0~12pH	0~12pH	±1000mV	±1000mV
pH Zero Point	7.00 ±0.25	7.00 ±0.25	-	-
Temp. Range	0~90°C	0~90°C	0~80°C	0~80°C
Press. Range	0~2.0MPa	0~2.0MPa	0~0.6MPa	0~0.6MPa
Temp. Sensor	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000	Standard configuration None (Customizable)
Housing Mat.	PP	PP	PA-GF	PPS
Rmem	<800MΩ	<100MΩ	-	-
Ref. System	SNEX Ag/AgCl/KCl	SNEX Ag/AgCl/KCl	-	-
Junction	SNEX	Porous Ceramic	Pt	Pt+SNEX
Electrolyte Sol	3.3M KCl	3.3M KCl	-	-
Dual Salt Bridge Sys	Yes	Yes	Yes	Yes
Conn. Thread	NPT3/4"	NPT3/4"	NPT3/4"	NPT3/4"
Cable Length	10m or customizable	10m or customizable	10m or customizable	10m or customizable
Cable Connector	Pin + BNC or customizable	Pin + BNC or customizable	Pin + BNC or customizable	Pin + BNC or customizable
Applications	Flue gas desulfurization ENV	Pure water / Low ion concentration	General applications	Complex ENV, resistant to poisoning

Conventional Electrode Series

Dissolved Oxygen Electrode



Model	WH1680	WH1681	WH1685
Meas. Method	Polarographic Method	Polarographic Method	Fluorescence Method
Housing Mat.	PP	POM + 316 SS, or Customizable	POM + 316 SS, or Customizable
Protection	IP68	IP68	IP68
Meas. Range	0~20mg/L	0~20mg/L	0~20mg/L
Accuracy	±1%F.S	±1%F.S	±1%F.S
Press. Range	≤0.3MPa	≤0.3MPa	≤0.3MPa
Temp. Comp.	NTC10K/NT2.252K/PT100/PT1000	NTC10K/NT2.252K/PT100/PT1000	NTC10K
Temp. Range	0~50°C	0~50°C	0~50°C
Calibration	Zero O ₂ Water Calib, Air Calib.	Zero O ₂ Water Calib, Air Calib.	Zero O ₂ Water Calib, Air Calib.
Conn. Method	4~core Cable	4~core Cable	4~core Cable
Cable Length	Standard 10m, extendable	Standard 10m, extendable	Standard 10m, extendable
Conn. Thread	NPT3/4"	NPT3/4" +NPT1"	G 3/4"
Applications	General APPS, rivers, lakes, drinking water, EP, etc.	General APPS, rivers, lakes, drinking water, EP, etc.	General APPS, rivers, lakes, drinking water, EP, etc.

◆ Residual Chlorine Electrode



Model	WH5530	WH5531
Meas. Method	Constant Voltage Method	Polarographic Method
Meas. Range	0~5.000;0~20.00mg/L	0~20.00mg/L
Temp. Range	0~50°C	0~50°C
Ref. System	Dual Salt Bridge, Ring-shaped Liquid Junction	-
Temp. Sensor	Not included by default, optional	Not included by default, optional
Housing/Dim.	Glass, 120° Φ12.7 mm	POM + 316 Stainless Steel
Meas. Method	Three-Electrode Method	Temp. Comp.
Calibration	Water Sample Calibration	Zero Chlorine Water Calib, Water Sample Calib.
Conn. Thread	PG13.5	NPT3/4"
Cable	3~core terminal, standard 5m or customizable	4~core terminal, standard 5m or customizable
Related Accessories	This electrode is used with a flow cell.	This electrode is used with a flow cell.

Conventional Electrode Series

◆ Ion Electrode



Model	WH6711	WH6710
Measurement	Chloride Ion	Fluoride Ion
Conc. Range	1~5x10 ⁻⁵ M(35500~1.8ppm)	1~1x10 ⁻⁶ M(saturated~0.02ppm)
pH Range	2~12pH	5.7pH(1x10 ⁻⁵ M);5~11pH(at saturation)
Temp. Range	0~80°C	0~80°C
Press. Range	0~0.3MPa	0~0.3MPa
Temp. Sensor	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000
Housing Mat.	PP	PP
Rmem	<1MΩ	<1MΩ
Conn. Thread	NPT3/4"	NPT3/4"
Cable Length	10m or customizable	10m or customizable
Cable Conn.	Pin, BNC, or customizable	Pin, BNC, or customizable

◆ Conductivity / TDS / Salinity / Resistivity Electrode



Model	WH3522	WH3523	WH3521	WH3520
Meas. Range	0.01~200μS/cm	0.01~20μS/cm	0.01~200μS/cm	0.01~20μS/cm
Meas. Method	Two-Electrode Method	Two-Electrode Method	Two-Electrode Method	Two-Electrode Method
Cell Constant	K=0.1	K=0.01	K=0.1	K=0.01
Wetted Material	Titanium Alloy	Titanium Alloy	316L	316L
Temp. Range	0°C~80°C	0°C~80°C	0°C~80°C	0°C~80°C
Press. Range	0~0.6Mpa	0~0.6Mpa	0~0.3Mpa	0~0.3Mpa
Temp. Sensor	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000	NTC10K/PT100/PT1000
Conn. Thread	NPT3/4"	NPT3/4"	G1/2	NPT3/4"
Cable	Standard 10 meters	Standard 10 meters	Standard 10 meters	Standard 10 meters

Conventional Electrode Series



Model	WH3535	WH3536	WH3530
Meas. Range	0~30000 μ S/cm	10~500000 μ S/cm	0.01~1000 μ S/cm
Meas. Method	Two-Electrode Method	Four-Electrode Method	Two-Electrode Method
Cell Constant	K=0.4	K=0.5	K=0.1
Wetted Material	Graphite + PMMA	Graphite + PMMA	316L
Temp. Range	0°C~80°C	0°C~80°C	0°C~130°C
Press. Range	$\leq$ 0.6Mpa	0~0.3Mpa	0~1.0Mpa
Temp. Sensor	NTC10K	NTC10K	PT1000
Conn. Thread	NPT3/4"	NPT3/4"	NPT3/4"
Cable	Standard 10 meters	Standard 10 meters	Standard 10 meters



Model	WH3531	WH3787	WH3788
Meas. Range	0.01~20 μ S/cm	0~2000mS/cm	0.01~1000 μ S/cm
Meas. Method	Two-Electrode Method	Electromagnetic	Two-Electrode Method
Cell Constant	K=0.01	-	316L
Wetted Material	316L	PFA	Graphite + PMMA
Temp. Range	0°C~130°C	-20°C~130°C	0°C~80°C
Press. Range	0~1.0Mpa	0~1.6Mpa	0~0.6Mpa
Temp. Sensor	PT1000	PT1000	NTC10K/PT100/PT1000
Conn. Thread	NPT3/4"	NPT3/4"	Compression Fitting
Cable	Standard 10 meters	Standard 10 meters	Standard 10 meters

WH263

High Performance and Versatile



◆ Product Overview

The WH263 pH electrode is crafted with an acid and alkali-resistant sensitive membrane, blown into a cylindrical shape with a thickness of 0.2-0.4 mm. It features a large sensitive area and excellent resistance to mechanical impact. The electrode incorporates a pressure-resistant Ag/AgCl KCl GFT polymer gel external reference system and a pressure-resistant intermediate electrolyte system, capable of withstanding process solution penetration pressures of up to 6 Bar. The porous ceramic core or porous Teflon serves as the salt bridge, ensuring stable liquid junction potential. Renowned for its rapid and accurate measurements, the WH263 is a flagship product of our company. Its strong resistance to oxidizing media, solvents, and acid-base solutions makes it ideal for highly demanding industrial applications.

◆ Key Features

- Excellent repeatability and stability
- Long-term superior time drift performance
- Double junction design with strong anti-pollution capability
- High-temperature resistance and IP68 waterproof rating
- No chemical reaction with solvents, strong acids, or alkalis
- Robust sensitive membrane, resistant to mechanical impact
- Full-range of 0-14 pH, resistant to long-term exposure to acid and alkali media

◆ Expandability

- Customizable electrode insertion depth
- Single-point porous ceramic core can be upgraded to double or triple points, or customized to a ring-shaped Teflon salt bridge
- Customizable cable connection types
- Cable length can be extended up to 60 meters

◆ Typical Applications

- Strong acids and alkalis, industrial wastewater, electroplating, printing and dyeing, electronics, chemical media

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~14pH
Temperature Range	0~100°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Membrane Resistance	<250M Ω
Zero Potential	7 $\pm$ 0.25pH
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GFT polymer gel (standard type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
pH Sensitive Membrane	Acid and alkali-resistant sensitive membrane (HA)
Cable Connection	S8/S8M/S7/VP/K8S/K2

WH263L

Low-Temperature Medium Solution



◆ Product Overview

The WH263L pH electrode utilizes a low-temperature-resistant intermediate electrolyte that ensures accurate measurements even in conditions above -20°C. It maintains the same response speed as at room temperature, providing an optimal solution for various low-temperature and complex working conditions.

◆ Key Features

- Exceptional low-temperature resistance
- Double junction design with strong anti-pollution capability
- IP68 waterproof rating
- No chemical reaction with solvents, strong acids, or alkalis
- Long-term excellent time/temperature drift performance
- Robust sensitive membrane, resistant to mechanical impact

◆ Expandability

- Customizable electrode insertion depth
- Single-point porous ceramic core can be upgraded to double or triple points, or customized to a ring-shaped Teflon salt bridge
- Customizable cable connection types
- Cable length can be extended up to 60 meters

◆ Typical Applications

- Refrigerated brine, surface water, chemical industry, laboratories

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~14pH
Temperature Range	-20~100°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Membrane Resistance	<250MΩ
Zero Potential	7±0.25pH
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GFT Polymer Gel (Low-Temperature Custom Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
pH Sensitive Membrane	Acid and alkali-resistant sensitive membrane (HA)
Cable Connection	S8/S8M/S7/P/K8S/K2

WH263T

High-Temperature Working Condition Solution



◆ Product Overview

The WH263T pH electrode is designed with components that can withstand temperatures up to 150°C. It features a high-temperature-resistant glass sensitive membrane (HT) and high-temperature-resistant polymer gel. Its durable design is ideal for use in high-temperature, high-pressure, and highly polluted chemical processes. It also meets the stringent requirements of CIP and SIP in sterile biotechnology applications. The electrode remains functional even after repeated autoclave sterilization or disinfection at 140°C.

◆ Key Features

- Exceptional high-temperature resistance
- IP68 waterproof rating
- Double junction design with strong anti-pollution capability
- No chemical reaction with solvents, strong acids, or alkalis
- Long-term excellent time/temperature drift performance
- Robust sensitive membrane, resistant to mechanical impact
- Fully resistant to autoclave sterilization and in-situ disinfection, capable of withstanding over 30 cycles

◆ Expandability

- Customizable electrode insertion depth
- Single-point porous ceramic core can be upgraded to double or triple points, or customized to a ring-shaped Teflon salt bridge
- Customizable cable connection types
- Cable length can be extended up to 60 meters
- Main glass body can be upgraded to imported Schott glass

◆ Typical Applications

- Biopharmaceuticals, food and beverage, sugar production, chlor-alkali industry, petrochemicals, power generation, semiconductor and electronics industry

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~14pH
Temperature Range	0~130°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Membrane Resistance	<250MΩ
Zero Potential	7±0.25pH
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GPT Synthetic Gel (High-Temperature Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
pH Sensitive Membrane	High-Temperature Resistant Glass Sensitive Membrane (HT)
Cable Connection	S8/S8M/S7/P/K8S/K2

WH264

Desulfurization and Denitrification Industry Solution



◆ Product Overview

The WH264 pH electrode features a pressure-resistant cylindrical bulb, GMT specially formulated mixed gel intermediate electrolyte, and a double ceramic salt bridge. These components ensure excellent measurement performance and long-term durability in desulfurization and denitrification environments containing sulfur ions, suspended particles, and high concentrations of heavy metal ions. The electrode is also resistant to high temperatures and pressures, making it the preferred choice for the desulfurization and denitrification industry.

◆ Key Features

- Double ceramic salt bridge, resistant to clogging, ensuring lower liquid junction potential
- GMT specially formulated mixed gel intermediate electrolyte, resistant to sulfur ion penetration
- Double junction design for extended lifespan
- IP68 waterproof rating
- Robust sensitive membrane, resistant to mechanical impact
- Stable measurements and long service life

◆ Expandability

- Electrode insertion depth can be customized
- Double ceramic core can be upgraded to a ring-shaped Teflon salt bridge
- Various cable connection types can be customized
- Cable length can be extended up to 60 meters

◆ Typical Applications

- Desulfurization and denitrification, Waste gas treatment

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~14pH
Temperature Range	0~100°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Membrane Resistance	<250MΩ
Zero Potential	7±0.25pH
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GMT Mixed Gel (Desulfurization-Specific Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
pH Sensitive Membrane	High-Temperature Resistant Glass Sensitive Membrane (HT)
Cable Connection	S8/S8M/S7/P/K8S/K2

WH266

The Best Choice for Hydrofluoric Acid Media



◆ Product Overview

The WH266 pH electrode features a unique hydrofluoric acid-resistant glass sensitive membrane, which is more corrosion-resistant to hydrofluoric acid than ordinary hydrofluoric acid-resistant glass. This significantly extends the electrode's service life. It can withstand hydrofluoric acid concentrations of up to 4000 ppm, far exceeding that of imported counterparts. It also offers better measurement accuracy and response speed compared to antimony electrodes, making it highly favored by customers in the semiconductor, petrochemical, steel wastewater, and metal treatment industries.

◆ Key Features

- Hydrofluoric acid-resistant glass sensitive membrane (HF)
- Robust sensitive membrane, resistant to mechanical impact, ensuring stable measurements
- Can withstand concentrations of up to 4000 ppm
- Double junction design for extended durability
- IP68 waterproof rating

◆ Expandability

- Electrode insertion depth can be customized
- Single-point porous ceramic core can be upgraded to double or triple points, or customized to a ring-shaped Teflon salt bridge
- Electrolyte can be customized to adapt to more complex working conditions
- Various cable connection types can be customized

◆ Typical Applications

- Semiconductor industry, petrochemical industry, steel wastewater, metal treatment, electronic electroplating

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~14pH
Temperature Range	0~100°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Membrane Resistance	<50MΩ
Zero Potential	7±0.25pH
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GFT Mixed Gel (Hydrofluoric Acid-Resistant Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
pH Sensitive Membrane	Hydrofluoric Acid-Resistant Glass Sensitive Membrane (HF)
Cable Connection	S8/S8M/S7NP/K8S/K2

WH268

Suitable for High-Temperature Pure Water



◆ Product Overview

The WH268 pH electrode is constructed with high-temperature-resistant materials, capable of withstanding temperatures up to 130°C, making it the preferred choice for customers in high-temperature pure water applications.

◆ Key Features

- Suitable for media with a conductivity range of 5-300μS/cm
- Exceptional high-temperature resistance
- Double junction design for extended durability
- IP68 waterproof rating
- Robust sensitive membrane, resistant to mechanical impact
- Accurate measurements with fast response time

◆ Expandability

- Electrode insertion depth can be customized
- Single-point porous ceramic core can be upgraded to double or triple points
- Various cable connection types can be customized
- Cable length can be extended up to 60 meters

◆ Typical Applications

- Power generation, boiler water, high-temperature pure water

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~14pH
Temperature Range	0~130°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT, etc. (optional)
Factory Slope	>95 %
Membrane Resistance	<50MΩ
Zero Potential	7±0.25pH
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GFT Polymer Gel (Low-Concentration High-Temperature Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
pH Sensitive Membrane	Low-Resistance Glass Sensitive Membrane (HL)
Cable Connection	S8/S8M/S7/P/K8S/K2

WH263T (Large Bulb Fermentation Version)

Special Electrode for Fermentation Industry

◆ Product Overview

The WH263T pH electrode can withstand high temperatures (121-130°C) and high pressure for extended periods. It features a refillable large bulb structure that allows for electrolyte replenishment, significantly extending the electrode's service life and fermentation batches. With customizable insertion depth, it is the preferred pH electrode for professional fermentation customers.



◆ Key Features

- Exceptional high-temperature resistance
- Double junction design with strong anti-pollution capability
- IP68 waterproof rating
- Refillable electrolyte
- Long-term excellent time/temperature drift performance
- Robust sensitive membrane, resistant to mechanical impact
- Fully resistant to autoclave sterilization and in-situ disinfection, capable of withstanding over 30 fermentation batches

◆ Expandability

- Electrode insertion depth can be customized
- Various cable connection types can be customized
- Main glass body can be upgraded to imported Schott glass

◆ Typical Applications

- Biopharmaceuticals, food and beverage

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~14pH
Temperature Range	0~100°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Membrane Resistance	<50MΩ
Zero Potential	7±0.25pH
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GFT Mixed Gel (Hydrofluoric Acid-Resistant Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
pH Sensitive Membrane	Hydrofluoric Acid-Resistant Glass Sensitive Membrane (HF)
Cable Connection	S8/S8M/S7NP/K8S/K2

WH253

Desulfurization and Denitrification Industry Solution



◆ Product Overview

The WH253 ORP electrode utilizes a large-area, high-purity platinum ring process, ensuring highly stable measurement potential. The reference system is based on industrial-grade pH electrode references, making it a suitable replacement for similar products from Mettler. It delivers satisfactory performance in various media requiring oxidation-reduction potential (ORP) measurements and can withstand long-term high temperatures.

◆ Key Features

- Wide measurement range
- Exceptional high-temperature resistance
- Double junction design for extended durability
- IP68 waterproof rating
- Large-area platinum ring for stable measurements
- Adaptable to various complex working conditions

◆ Expandability

- Electrode insertion depth can be customized
- Single-point porous ceramic core can be upgraded to double or triple points
- Various cable connection types can be customized
- Cable length can be extended up to 60 meters

◆ Typical Applications

- Production processes, chemical processes, industrial wastewater, equipment integration

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	-1999mV~1999mV
Temperature Range	0~130°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GPT Synthetic Gel (High-Temperature Custom Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Insertion Depth	120/150/225/325/425mm
Cable Connection	S8/S8M/S7/P/K8S/K2

WH267

Constant Voltage Method Residual Chlorine Electrode



◆ Product Overview

The WH267 residual chlorine electrode utilizes the constant voltage method and features a high-purity, large-area platinum ring and platinum sheet as its core measurement components, ensuring accurate and stable real-time measurements. The reference system is based on industrial-grade pH electrode references, significantly enhancing measurement lifespan and stability in applications such as tap water and purified water. It delivers satisfactory performance in various media requiring residual chlorine measurements and can withstand long-term high temperatures.

◆ Key Features

- Pt ring + Pt sheet process for stable measurement values
- Strong high-temperature resistance
- Double junction design for extended durability
- IP68 waterproof rating
- Accurate measurements with fast response time

◆ Expandability

- Electrode insertion depth can be customized
- Various cable connection types can be customized
- Cable length can be extended up to 30 meters

◆ Typical Applications

- Tap water, secondary water supply, swimming pools, dosing equipment integration, industrial processes

◆ Technical Parameters

Specifications	Technical Specification Parameters
Measuring Range	0~20mg/L
Temperature Range	0~100°C
Pressure Resistance	0~3Bar, 6 Bar MAX
Temperature Compensation	NTC10K, NTC2.252K, NTC22K, PT100, PT1000, etc. (optional)
Factory Slope	>95 %
Response Time	<30S
Salt Bridge Type	Special porous ceramic core
Reference Electrolyte	GFT Polymer Gel (Standard Type)
Number of Junctions	Two
Installation Thread	PG13.5
Housing Material	Glass
Cable Connection	S8/S8M/S7/P/K8S/K2

Hydrophone



Product Overview

A hydrophone is a transducer that converts acoustic signals into electrical signals, primarily used as an electroacoustic receiving transducer for acoustic measurements in liquids. Its sensitivity is accurately calibrated, ensuring stable performance. It can be placed in sonobuoys, underwater acoustic measurement systems, and other hydro-acoustic equipment. Standard hydrophones are classified into primary and secondary levels, used for laboratory standards and underwater acoustic metrology.

Key Features

- **High Sensitivity:** Hydrophones can detect weak acoustic signals with high sensitivity, capable of detecting smaller signals than traditional piezoelectric hydrophones.
- **Wide Dynamic Range:** The dynamic range of fiber optic hydrophones can reach 120-140 dB, significantly higher than the 80-90 dB of piezoelectric hydrophones.
- **Strong Anti-Electromagnetic Interference:** Fiber optic hydrophones use all-optical transmission, effectively resisting electromagnetic interference and signal crosstalk, making them suitable for complex electromagnetic environments.
- **Long-Distance Transmission and Array Capability:** Fiber optic transmission has low loss, making it suitable for long-distance transmission. It can also be multiplexed using frequency division, wavelength division, and time division technologies, making it ideal for large-scale underwater arrays.
- **Integrated Signal Sensing and Transmission:** Fiber optic hydrophones integrate signal sensing and transmission, enhancing system reliability.
- **Low Noise:** Fiber optic hydrophones operate on optical principles, with low self-noise, making them suitable for detecting weak signals.

Technical Parameters

Specification	Technical Specification Parameters
Sensitivity	Not less than -172 dBV
Operating Temperature	-10°C~50°C
Response Frequency	5Hz-20KHz
Sensor Material	Oxidation-resistant and corrosion-resistant material
Connection Cable	Low-noise coaxial cable
Protection Rating	IP68

Noise Logger



Product Overview

The Noise Logger captures noise signals through high-frequency sampling and compares them with built-in noise models to provide accurate leakage alarms. It reports detection results as sound files to the management platform, supporting online audio analysis. Integrated with the DMA leakage control platform, it enables precise leakage detection and full-process leakage control, effectively reducing and continuously managing leakage.

Key Features

- **Sensitivity:** High-sensitivity sensing unit, greater than 7 V/g
- **Leakage Algorithm:** Terminal-based time-series neural network leakage identification algorithm for rapid leak detection.
- **Cloud Algorithm:** Determines leakage credibility by analyzing noise characteristic values and audio spectra.
- **Installation Method:** Strong magnetic bottom attachment to water supply pipelines without damaging the pipes.
- **Multiple Antenna Options:** Different antennas available for various scenarios.
- **Strong Applicability:** Suitable for metal pipes with diameters from DN15 to DN1000 mm.
- **Bluetooth Communication:** Always-on Bluetooth, no need to open the cover
- **Bluetooth Communication:** Always-on Bluetooth, no need to open the cover for operation.
- **Efficient Detection:** Mobile APP for on-the-go use, real-time viewing, real-time alarms, and real-time analysis.
- **Communication Methods:** Short-range Bluetooth BLE communication, long-range CAT1 communication, supporting parameter configuration and OTA upgrades.
- **High-Frequency Sampling:** More accurate identification of leakage audio characteristics.
- **IP68 Waterproof Design:** Triple waterproofing process.
- **Management Platform:** Data sharing and platform integration.
- **Easy Installation:** Strong magnetic attachment, non-destructive installation, ready to use immediately.

High-Frequency Pressure Gauge (Mains/Solar/Battery Powered)

P4GBLE03



Product Overview

The P4GBLE03 series wireless digital pressure gauge consists of four core units: pressure sensing, wireless digital processing module, power supply module, and software platform.

This product is compatible with 316L stainless steel for the measured medium, meeting the high-precision requirements of industrial system pressure detection. It operates within a temperature range of -20°C to 85°C, featuring a compact design, stable performance, and impact resistance.

Low-Frequency Mode: Collects data once per minute and reports every 30 minutes, ideal for low-power applications.

High-Frequency High-Throughput Mode: Samples 10,000 times per minute, with all data uploaded.

High-Frequency Low-Throughput Mode: Samples 10,000 times per minute, with low data volume when pressure is stable and immediate switching to high-throughput mode during pressure fluctuations.

Combined with the software platform algorithm, it enables water hammer measurement, burst pipe alarms, and new leak point monitoring.

Key Features

- **Extended Storage:** 20-45 days of ultra-long data storage.
- **Bluetooth Communication:** Always-on Bluetooth, unaffected by location.
- **Optional Power Supply:** Battery, mains, or solar power options.
- **High-Frequency/Low-Frequency/Shutdown Mode**
- **Mobile APP,** easy configuration and management.
- **Multiple Digital Output Options,** adjustable upload frequency.
- **No base station deployment required,** high network coverage.
- **IP68 Waterproof Design,** triple waterproofing process.
- **Accurate Measurement and Stable Performance,** ensures reliable and precise results.

Typical Applications

