



# CHEMINS SENSOR CATALOGUE

Yantai Chemins Instrument Co.,Ltd


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## ● *Company Introduction*

Yantai Chemins Instrument Co.,Ltd is an experienced high-tech enterprise with new and high-level cutting-edge technology. Our core business is orientated to the research, design, production, sales and service of the analysis instrument and system solutions. Chemins has always been adhering to the management principle of “Quality first, customer supreme”, planning the development vision of being the global famous analysis instrument manufacturer, emphasize on the core values of “Value, Respect, Quality, Service”. “Domestic instrument, Global Service” are regarded as our mission, and our particular interest of meeting customer’s quality requirement and deliver zero-defect product quality as our aim. We gain customer’s favour and trust by offering an excellent and unique experience.

## ● *Main products*

Chemins focuses on the online analysis application in multi-environment and mechanical electrical fields. Our sensors enable the measurement of a wide array of parameters such as: the Conventional 5 parameters (conductivity, dissolved oxygen, pH/ORP, turbidity and temperature), chlorophyll, blue green algae, ammonia nitrogen, COD etc. We can also design the full system solution according to the customer requirement.




# I- Integrated Digital Online Water Quality Analysis Instruments

Measurement Parameters	COD/BOD	
Models	iCOD/BOD-306 Online COD sensor	COD/BOD Online COD Sensor
Environment Application	The integrated optical Online COD/BOD sensor adopts ultraviolet absorption method, which is suitable for most occasions that need to measure COD/BOD, such as sewage and water affairs, environmental monitoring and other industries.	
Measurement Principle	(UV) Ultraviolet spectroscopy	
Measuring Range	COD: 0~200mg/L equiv. KHP COD: 0~500mg/L equiv. KHP	BOD: 0~150mg/L BOD: 0~450mg/L
Resolution	0.1mg/L	
Accuracy	±5% of the measured value or ±3mg/L, whichever is greater Accuracy Temperature: ±0.3°C	±5%F.S.
Working Conditions	0~45°C, <0.1MPa	
Self cleaning	Built-in cleaning brush	
Dimension	φ 30*185mm	
Power Consumption	0.2W@12V	0.3W@12V
Power Supply	12~24VDC±10%	
Output Signal	RS-485(Modbus/RTU)	
Wetted Material	POM/316L Stainless steel	Titanium and 316L Stainless Steel
Installation Method	Immersion installation	
Protection grade	IP68	



Measurement Parameters	Ammonia Nitrogen			
Models	406 NON Online Ammonia Nitrogen	NHN-206A Online NHN Sensor	NHN-302A/B Online NHN Sensor	TAN-300 In-situ Ammonia Nitrogen analyzer
Environment Application	The integrated ammonia nitrogen sensor is suitable for monitoring ammonia nitrogen in water bodies such as surface water, nearshore and estuary.			In-situ monitoring provides continuous, stable and accurate monitoring data for water quality investigation, water environment monitoring and early warning of ecological disasters.
Measurement Principle	Ion Selection Approach			Nessler's reagent Spectrophotometry
Whether to consume reagents	No			Change reagents monthly
pH Compensation	No		yes	/
Potassium Compensation	No		yes	/
Measurement Range	0~100.00 mg/L 0~1000.0mg/L	0~100 mg/L 0~1000 mg/L	NH <sub>4</sub> <sup>+</sup> : 0~1000mg/L Or 0~100mg/L NH <sub>3</sub> : 0~150mg/L Or 0~15mg/L K <sup>+</sup> : 0~1000mg/L pH: 0~14pH Temperature: 0~35°C	0~2 mg/L  0~5 mg/L

<b>Resolution</b>	0.01 mg/L 0.1mg/L	0.01 mg/L 0.1mg/L	NH <sub>4</sub> <sup>+</sup> : 0.1mg/L	0.001 mg/L
<b>Accuracy</b>	±10% Or ±1mg/L, ±0.5°C	±10% Or ±1mg/L, ±0.5°C	NH <sub>4</sub> <sup>+</sup> : ±5%F.S. NH <sub>3</sub> Or Total NHN: ± 5%F.S. K <sup>+</sup> : ±5%F.S. pH: 0.1pH Temperature: 0.5°C	±10%F.S.
<b>Working Conditions</b>	0~40°C, <0.1MPa		0~35°C, <0.1MPa	0~45°C, <0.1MPa
<b>Dimension</b>	φ 18*150mm	φ 30*185mm	φ 80*257mm	Φ200*298mm
<b>Power Consumption</b>	0.2W@12V	0.2W@12V	0.3W@12V	<15W
<b>Power Supply</b>	12~24VDC±10%			24VDC±10%
<b>Output Signal</b>	RS-485 (Modbus/RTU protocol)			
<b>Wetted material</b>	POM,Titanium and 316L Stainless Steel		PVC/POM	PVC
<b>Installation Method</b>	Immersion Approach	3/4NPTPipe thread immersion installation		In situ monitoring Immersion installation
<b>Protection Grade</b>	IP68			
<b>Product Image</b>				

Measurement Parameters	pH		
Models	iPH-306 Online pH Sensor	PHG-406 Online pH Sensor	PHG-206A Online pH Sensor
Environment Application	Used in environmental water quality monitoring, acid/alkali/salt solutions, chemical reaction processes, and industrial production processes, it can meet the requirements of most industrial applications for online pH measurement.		
Measurement Principle	Glass Electrode method		
Measuring Range	0~14.00pH		
Resolution	0.01pH, 0.1°C		
Accuracy	±0.1pH, ±0.3°C	±0.1pH, ±0.2°C	±0.1pH, ±0.3°C
Working Conditions	0~65°C, <0.2MPa		
Dimension	φ 18*150mm	φ 30*185mm	
Power Consumption	0.1W@12V	0.2W@12V	
Power Supply	12~24VDC±10%		
Output Signal	RS-485( Modbus/RTU Protocol)	RS-485(Modbus/RTU Protocol) 4-20mA	RS-485(Modbus/RTU Protocol)
Wetted material	POM	POM, Titanium and 316L Stainless Steel	POM
Installation Method	Immersion Approach	3/4NPT Pipe thread Immersion installation	
Protection grade	IP68		
Product Image			

Measurement Parameters	Conductivity			Salinity
Models	iEC-306 Online EC Sensor	DDM-406 Online EC Sensor	DDM-206A Online EC Sensor	DDM-206A-S Online Salinity Sensor
Environment Application	It is suitable for all occasions that need to measure conductivity, suitable for water, surface water, industrial water treatment.			Suitable for sea water, high salt water, various industrial water treatment, etc.
Measurement Principle	Electrode method			Electromagnetic induction
Measurement Range	0~5000 $\mu$ S/cm		0~20.00 $\mu$ S/cm 0~200.0 $\mu$ S/cm 0~5000 $\mu$ S/cm 0~200.0mS/cm	0~70.0PSU
Accuracy	1 $\mu$ S/cm, 0.1 $^{\circ}$ C		0.01 $\mu$ S/cm 0.1 $\mu$ S/cm 1 $\mu$ S/cm 0.1mS/cm	0.1PSU
Accuracy	$\pm$ 1% of the measured value Or $\pm$ 5 $\mu$ S/cm, $\pm$ 0.3 $^{\circ}$ C	$\pm$ 2% of the measured value Or $\pm$ 2 $\mu$ S/cm, whichever is greater ; Accuracy Temperature: $\pm$ 0.2 $^{\circ}$ C	$\pm$ 1.5%F.S., $\pm$ 0.3 $^{\circ}$ C	$\pm$ 1.5%F.S., $\pm$ 0.5 $^{\circ}$ C
Working Conditions	0~65 $^{\circ}$ C, <0.6MPa			
Dimension	$\phi$ 18*150mm	$\phi$ 30*185mm		
Power Consumption	0.1W@12V	0.2W@12V		
Power Supply	12~24VDC $\pm$ 10%			
Output Signal	RS-485(Modbus/RTU) 4-20mA	RS-485(Modbus/RTU) 4-20mA	RS-485(Modbus/RTU) 4-20mA	
Wetted Material	POM	POM, Titanium and 316L Stainless Steel		POM
Power Supply	Immersion installation	3/4NPT Pipe thread immersion installation		
Output Signal	IP68			







Measurement Parameters	Dissolved Oxygen		
Models	iDO-306 Online Dissolved Oxygen Sensor	RDO-406 Online Dissolved Oxygen Sensor	RDO-206A Online Dissolved Oxygen Sensor
Environment Application	The integrated dissolved oxygen online sensor is suitable for all occasions that need to measure dissolved oxygen, such as surface water monitoring, water treatment, aquaculture and other industries.		
Measurement Principle	Fluorescence		
Resolution	0~20.00mg/L(0~200% saturation, 25°C)		
Accuracy	0.01mg/L, 0.1°C		
Working Conditions	±2% of the measured value Or 0.3mg/L, whichever is greater; Accuracy Temperature:0.3°C	±2%of the measured value Or ±0.3mg/L, whichever is greater; Accuracy Temperature:±0.2°C	±2%F.S., ±0.3°C
Self cleaning	0~45°C, <0.2MPa		
Dimension	φ 18*150mm	φ 30*185mm	
Power Consumption	0.1W@12V	0.2W@12V	
Power Supply	12~24VDC±10%		
Output Signal	RS-485(Modbus/RTU Protocol)	RS-485(Modbus/RTU Protocol) 4-20mA	RS-485(Modbus/RTU Protocol) 4-20mA
Wetted Material	POM,Titanium and 316L Stainless Steel		



<b>Installation Method</b>	Immersion installation		
<b>Protection Grade</b>	IP68		
<b>Product Image</b>			

Measurement Parameters	Turbidity			
Models	iZS-306 Online Turbidity Sensor	ZS-406 Online Turbidity Sensor	ZS-206A Online Turbidity Sensor	ZS-300 Online Turbidity Sensor
<b>Environment Application</b>	The integrated optical online turbidity sensor is suitable for all occasions that need to measure turbidity, such as surface water monitoring, water treatment, industrial automation and other industries.			Integrated optical low-range turbidity online sensor, suitable for drinking water, secondary water supply, water treatment and other industries.
<b>Measurement Principle</b>	Scattered Light Method			
<b>Resolution</b>	0~100NTU 0~1000NTU	0~1000.0NTU	0~20.00NTU 0~100.0NTU 0~1000.0NTU	0~2.000NTU
<b>Accuracy</b>	0.1NTU, 0.1°C	0.1NTU/0.1°C	0.01NTU/0.1°C 0.1NTU/0.1°C 0.1NTU/0.1°C	0.001NTU/0.1°C
<b>Working Conditions</b>	±5% of the measured value Or ±3NTU Accuracy value ±0.3°C	±5% of the measured value Or ±0.3NTU, whichever; Accuracy Value: ±0.2°C	±5% Or ±3NTU(0~1000.0NTU) ±3% Or ±2NTU(0~100.0NTU) ±3% Or ±1.5NTU(0~20.00NTU) ±0.3°C	±10% Or ±0.05NTU(0~2.000NTU); ±0.3°C

Self cleaning	0~50°C, <0.2MPa		
Dimension	φ 18*150mm	φ 30*185mm	
Power Consumption	0.1W@12V	0.2W@12V	
Power Supply	12~24VDC±10%		
Output Signal	RS-485(Modbus/RTU Protocol)	RS-485(Modbus/RTU Protocol) 4-20mA	RS-485(Modbus/RTU Protocol)
Wetted Material	POM	Titanium and 316L Stainless Steel	POM
Installation Method	Immersion Approach	3/4NPT Pipe thread immersion installation	Flow Cell Installation
Protection Grade	IP68		
Product Image			 

Measurement Parameters	Multi-parameter	
Models	iMP-300 Online Multi-parameter Sensor	MPS-400 Online Multi-parameter Sensor
Environment Application	It is suitable for water surface, water conservancy environmental protection, water treatment and other water environment monitoring.	
Monitoring parameters	6 parameters can be measured simultaneously, including: Dissolved oxygen, conductivity, pH, turbidity, ammonia nitrogen, temperature, etc.	8 parameters can be measured simultaneously, including: Dissolved oxygen, conductivity, PH, ORP, turbidity, salinity, temperature, ammonia nitrogen, COD, suspended solids, chlorophyll, blue-green algae, oil in water, etc.
Cleaning Method	Automatic Cleaning Brush	
Dimension	φ 70*257mm	φ 100*400mm

<b>Power Consumption</b>	<b>1W@12V</b>	<b>5W@12V</b>
<b>Power Supply</b>	<b>12VDC ± 5%</b>	
<b>Output Signal</b>	<b>RS-485 (Modbus/RTU Protocol)</b>	
<b>Installation Method</b>	<b>Immersion Approach</b>	
<b>Protection Grade</b>	<b>IP68</b>	
<b>Product Image</b>		



Measurement Parameters	Suspended Solid	Transparency	Oil-in-water
Models	TSS-206A Online Suspended Solid Sensor	TPS-206 Transparency sensor	OIL-206A Online Oil-in-water Sensor
Environment Application	The integrated optical suspended solids concentration online sensor is suitable for all occasions where sludge concentration needs to be measured, such as wastewater treatment, sewage treatment and other industries.	All-in-one optical transparency online sensor is suitable for all occasions that need to measure transparency, such as water treatment, aquaculture and other industries.	The integrated optical oil-in-water online sensor adopts UV LED light source, which has high stability, long service life and small drift. It is suitable for water environment monitoring that needs to monitor oil-in-water.
Measurement Principle	Scattered Light Method	Transmitted Light Method	360° Nanophotography
Resolution	0~2000mg/L	50~2000mm	0~40ppm
Accuracy	0.1mg/L, 0.1°C	1mm/0.1°C	0.01ppm
Working Conditions	±5%(Depends on sludge homogeneity), ±0.3°C	±10% F.S./±0.5°C	±3%, ±0.5°C
Self cleaning	0~50°C, <0.2MPa	0~45°C, <0.2MPa	0~50°C, <0.2MPa
Dimension	φ 30*185mm	φ 67*295mm	φ 30*192mm
Power Consumption	0.2W@12V	0.3W@12V	0.2W@12V
Power Supply	12~24VDC±10%		
Output Signal	RS-485(Modbus/RTU Protocol) 4-20mA		
Installation Method	Immersion Approach		
Protective Grade	IP68		





Measurement Parameters	Nitrate	Oxidation Reduction Potential
Models	NON-206A Online nitrate sensor	ORP-206A Online ORP Sensor
Environment Application	The integrated online nitrate online sensor is suitable for all occasions that need to measure nitrate, such as water surface, water treatment, aquaculture and other industries.	The integrated redox electrode is suitable for environmental water quality monitoring, acid/alkali/salt solution, chemical reaction process, and industrial production process, and can meet the requirements of most industrial applications for online ORP measurement.
Measurement Principle	Ion Selection method	Electro-chemical Method
Resolution	0~100mg/L 0~1000mg/L	- 1500~1500mV
Accuracy	0.1mg/L	1mV
Working Conditions	±10% Or ±2mg/L, ±0.5°C	±6mV, ±0.5°C
Self cleaning	0~40°C, <0.1MPa	0~65°C, <0.1MPa
Dimension	φ 30*185mm	
Power Consumption	0.2W@12V	
Power Supply	12~24VDC±10%	
Output Signal	RS-485(Modbus/RTU Protocol) 4-20mA	
Wetted Material	POM,Titanium and 316L Stainless Steel	
Installation Method	3/4NPT Pipe thread immersion installation	

<b>Protective Grade</b>	IP68	
<b>Product Image</b>		

Measurement Parameters	Chlorophyll	MLSS
Models	CHLO-206A Online chlorophyll sensor	MLSS-206A Online Sludge Concentration Sensor
<b>Environment Application</b>	The all-in-one optical chlorophyll online sensor can be used for research, investigation and monitoring of rivers, lakes, ponds, marine surveys, aquaculture, drinking water sources, algae and phytoplankton conditions.	MLSS-206A integrated online sludge concentration sensor is designed and manufactured by the principle of scattered light measurement method. When a beam of light enters the water sample, the light is scattered by the suspended particles in the water sample.
<b>Measurement Principle</b>	Scattered Light Method	
<b>Measuring Range</b>	0~400.0ug/L	0~20.000g/L
<b>(resolution)</b>	0.1ug/L, 0.1°C	(0.001g/L, 0.1°C)
<b>Accuracy</b>	±3%, ±0.5°C	±5% (depending on sludge homogeneity)
<b>Working Conditions</b>	0~50°C	0~65°C
<b>Deepest depth</b>	20 meters underwater(CHLO-206A)	
<b>Dimension</b>	φ 30*185mm	185*10.5
<b>Power Consumption</b>	0.2W@12V	
<b>Power Supply</b>	12~24VDC±10%	
<b>Output Signal</b>	RS-485(Modbus/RTU Protocol) 4-20mA	
<b>Wetted Material</b>	POM,Titanium and 316L Stainless Steel	POM,Titanium and 316L Stainless Steel

<b>Installation Method</b>	Immersion Approach	
<b>Protective Grade</b>	IP68	
<b>Product Image</b>		

Measurement Parameters	Residual chlorine	Residual chlorine, total chlorine
Models	CL-206A Online Residual chlorine Sensor	DPD-300 Residual chlorine and total chlorine analyzer
<b>Environment Application</b>	Integrated electrochemical residual chlorine online sensor, suitable for all occasions that need to measure residual chlorine, such as secondary water supply, swimming pool water, etc.	It is suitable for residual chlorine measurement in the process of chlorination disinfection and monitoring of residual chlorine concentration in drinking water pipe network.
<b>Measurement Principle</b>	Electrochemical Method	Colorimetry
<b>Measurement Range</b>	0~2.000mg/L(HClO)	0~5mg/L
<b>Resolution</b>	0.001mg/L	0.001mg/L
<b>Accuracy</b>	±5% Or ±0.05mg/L	±0.005mg/L Or ±5%
<b>Working Temperature</b>	5~50°C	/
<b>Working Pressure</b>	<0.1MPa	/
<b>Dimension</b>	φ 30*185mm	400*500mm
<b>Power Consumption</b>	0.2W@12V	/
<b>Power Supply</b>	12~24VDC ±10%	220V




<b>Output Signal</b>	RS-485(Modbus/RTU Protocol) 4-20mA	
<b>Wetted Material</b>	Flow Cell Mounting	Wall Mounting
<b>Installation Method</b>	IP68	IP65
<b>Protective Grade</b>		

Measurement Parameters	Ion Chloride	Fluoride
Models	CLI-206A Online Ion Chloride Sensor	FLU-206A Online Fluoride Sensor
Environment Application	Integrated electrochemical chloride ion online sensor, suitable for all occasions that need to measure chloride ion, such as secondary water supply, swimming pool water, etc.	Integrated electrochemical fluoride ion online sensor, suitable for all occasions that need to measure fluoride ion, such as secondary water supply, swimming pool water, etc.
Measurement Principle	Ion Selection Method	
Measurement Range	0~3500.0mg/L 0~35000mg/L	0~100.00mg/L
Resolution	0.1mg/L 1mg/L	0.01mg/L
Accuracy	±5%, ±0.5°C	±10% Or ±1mg/L, ±0.5°C
Dimension	φ 30*185mm	
Power Consumption	0~40°C, <0.1MPa	



<b>Power Supply</b>	12~24VDC±%10	
<b>Output Signal</b>	RS-485(Modbus/RTU Protocol) 4-20mA	
<b>Installation Method</b>	3/4NPT Pipe Thread, Submerged Mount	
<b>Protective Grade</b>	IP68	
<b>Product Image</b>		





<b>Models</b>	<b>TPC-300</b> Online Total Phosphorus Analyzer	<b>TP-300</b> Online In Situ Total Phosphorus Analyzer	<b>TN-300</b> In Situ Total Nitrogen Analyzer
<b>Environment Application</b>	Applicable to the measurement of total phosphorus concentration in water surface, nearshore and estuary water bodies. Through the online monitoring of total phosphorus in water, the instrument can provide users with continuous and stable monitoring data required for water quality investigation and research, water environment monitoring, and early warning of ecological disasters such as red tide and green tide.		In situ analyzer for the determination of total nitrogen concentration in water bodies such as surface water, nearshore and estuaries. Through the online monitoring of total nitrogen in water, the instrument can provide users with continuous and stable monitoring data required for water quality investigation, water environment monitoring and early warning of ecological disasters.
<b>Measurement Principle</b>	Ammonium Molybdate Spectrophotometry		Chromotropic Acid Spectrophotometry
<b>Whether to consume reagents</b>	Change reagents Monthly		
<b>Measurement Range</b>	0~2 mg/L		0~5 mg/L
<b>Resolution</b>	0.001mg/L		

<b>Accuracy</b>	$\pm 5\% \text{F.S.}$		$\pm 10\% \text{F.S.}$
<b>Dimension</b>	275*190*340mm	$\phi 200*298\text{mm}$	
<b>Power Consumption</b>	0~45°C, <0.1MPa		
<b>Power Supply</b>	24VDC $\pm 10\%$ , $\geq 3\text{A}$	24VDC $\pm 10\%$	
<b>Output Signal</b>	RS-485 Trunk, Modbus/RTU Protocol		
<b>Wetted Material</b>	PVC		
<b>Installation Method</b>	On-line monitoring column type or wall hanging type	In situ monitoring Immersion installation	
<b>Protective Grade</b>	/	IP68	
<b>Product Image</b>			

## II- Water Quality Monitoring System


Models	MF-400 Online Water Quality Monitoring Buoy	MF-500 Online Water Quality Monitoring Buoy
<b>Environment Application</b>	Online water quality monitoring buoy, integrated design, reliable and easy to use. Multiple digital sensors can be connected at the same time, including dissolved oxygen, PH, ORP, conductivity, turbidity, temperature, salinity, ammonia nitrogen, COD, chlorophyll, blue-green algae, etc. It is suitable for water quality monitoring of rivers, lakes, oceans, etc.	Online water quality monitoring buoy, integrated design, reliable and easy to use. Multiple digital sensors can be connected at the same time, including dissolved oxygen, PH, ORP, conductivity, turbidity, temperature, ammonia nitrogen, COD, chlorophyll, blue-green algae, etc. It is suitable for water quality monitoring such as rivers and lakes.
<b>Function</b>	Water quality monitoring sensors that support various RS-485 communications GPRS wireless data transmission Battery powered, solar powered Optional mobile APP software and computer software 4G, NB-IOT, LORA, WIFI wireless communication methods can be selected IP68 protection class	
<b>Dimension</b>	φ 700*650mm	φ 410*785mm
<b>Product Image</b>		

<b>Models</b>	<b>MS-100</b> Secondary Water Supply Monitoring System	<b>MS-300</b> Micro Underground Pipe Network Water Quality Monitoring System	<b>MS-500</b> Micro Water Quality Monitoring Station	<b>MS-800</b> Water Quality Online Monitoring Shore Station
<b>Environment Application</b>	It is suitable for monitoring urban public water supply, self-built facility water supply, and personal water storage.	Suitable for water quality monitoring of underground pipe network.	Monitoring of water surface quality and environment such as rivers and lakes.	
<b>Monitoring Parameters</b>	PH, conductivity, turbidity, dissolved oxygen and other IOT series sensors	PH, conductivity, turbidity, dissolved oxygen, ammonia nitrogen and other IOT series sensors	PH, conductivity, turbidity, dissolved oxygen, ammonia nitrogen and other IOT series sensors.	Dissolved oxygen, pH, conductivity, turbidity, ORP, ammonia nitrogen, COD, etc.
<b>Installation Application</b>	Pipeline	Wall-mounted	Column fixed or wall mounted	Shore fixed
<b>Power Supply</b>	12V supply	DC12V 30Ah (lithium battery)		220VAC, 50Hz
<b>Data Transmission</b>	RS485/Modbus	TCP/IP unvarnished transmission	GSM/GPRS, scalable DTU Module (Wireless Data Upload)	RS232/RS485, GSM/GPRS, NB-IOT, LORA
<b>Data Collection</b>	Automatic Collection			
<b>Measurement Interval</b>	Continuous and Timing Optional			
<b>Body Size</b>	450mm*85mm*350mm	140mm*160mm	500mm*400mm*200mm	1200*600*350mm
<b>Working Pressure</b>	<0.4Mpa	<0.1Mpa	<1MPa	
<b>Protection Grade</b>	IP68		IP54	IP65





<p><b>Product Image</b></p>				
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### III- Meter and Portable

Models	MPC-202 Analyzer	EXO-202A Portable Multi-Parameter Analyzer
Measurement Range	According to the sensor setting	According to the sensor setting
Display	2.4 Inch 12864 Dot matrix screen	3.5-inch color TFT with resistive touch
Working Pressure	0~50°C	-5~65°C
Dimension	96*96mm	159mm×99mm×32mm
Communication Interface	RS-485(Modbus/RTU Protocol)	
power supply	DC 12-24V	
Protection Grade	IP54	
Product Image		

Models	MPC-400 Water Quality Monitoring and Control System
<p><b>Function</b></p>	<ul style="list-style-type: none"> <li>- Touch screen operation</li> <li>- Water quality monitoring sensors that support various RS-485 communications</li> <li>- GPRS wireless data transmission</li> <li>- Internet access (Modbus/TCP protocol)</li> <li>- up to 12 sensors can be used</li> <li>- PLC control, alarm output can be set</li> <li>- Comes with free local computer display software</li> <li>- Optional mobile APP software and remote access computer software</li> <li>- IP65</li> </ul>
<p><b>Product Image</b></p>	



## IV- Accessories

Models	PHE-206	ORE-206	NHE-206 Ammonium ion	NKE-206 Potassium ion
Electrode				
Range	0.00~14.00pH	-1500~1500mV	0~100.00mg/L 0~1000.0mg/L	0~1000mg/L
Connection Method	1/2NPT			

### RDO-CAP-A Fluorescent Cap

Recommend to change once annually









Clean-100 Self-cleaning Stand		Clean-200Self-cleaning Stand
<b>Function</b>	The self-cleaning bracket can automatically clean the electrode and prolong the life of the electrode.4 electrodes can be installed at the same time Power Supply: 12~24VDC Power Consumption: 0.1W@12V	
<b>Dimension</b>	φ 65*H151*W28mm	φ 85*H151*W28mm
<b>Matching sensor size</b>	φ *15*150mm	φ 30*185mm/192mm
<b>Product Image</b>		




## V- Data Service

Models	Clean ENV Environmental Analysis Software	Clean ENV-APP Environmental Analysis Mobile Software
<b>Function</b>	Remote access and control with Internet Used in the control room to display, analyze and control various data; Display the current data and historical data of each sensor; Display and set the alarm value; Start or stop the oxygen pump;	Used in the control room to display, analyze and control various data; Display the current data and historical data of each sensor; Display and set the alarm value; Turn on or turn off electrical equipment such as oxygenation pumps;



<p><b>Technological Parameter</b></p>		
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<h3 style="text-align: center;">Standard Calibration Material</h3>																			
<p><b>pH standard solution</b> pH Value: 4.01 6.86 9.18</p>																			
<p><b>Conductivity Standard Solution</b></p> <table border="0"> <tr> <td>84 uS/cm Conductivity Calibration Standard</td> <td>±0.3% (25°C)</td> <td>500mL/250mL/50mL (Bottle)</td> </tr> <tr> <td>1413uS/cm Conductivity Calibration Standard</td> <td>±0.3% (25°C)</td> <td>500mL/250mL/50mL (Bottle)</td> </tr> <tr> <td>12.88 mS/cm Conductivity Calibration Standard</td> <td>±0.3% (25°C)</td> <td>500mL/250mL/50mL (Bottle)</td> </tr> <tr> <td>146.6 uS/cm Conductivity Calibration Standard</td> <td>±0.3% (25°C)</td> <td>500mL/250mL/50mL (Bottle)</td> </tr> <tr> <td>1408 uS/cm Conductivity Calibration Standard</td> <td>±0.3% (25°C)</td> <td>500mL/250mL/50mL (Bottle)</td> </tr> <tr> <td>12.85 mS/cm Conductivity Calibration Standard</td> <td>±0.3% (25°C)</td> <td>500mL/250mL/50mL (Bottle)</td> </tr> </table>	84 uS/cm Conductivity Calibration Standard	±0.3% (25°C)	500mL/250mL/50mL (Bottle)	1413uS/cm Conductivity Calibration Standard	±0.3% (25°C)	500mL/250mL/50mL (Bottle)	12.88 mS/cm Conductivity Calibration Standard	±0.3% (25°C)	500mL/250mL/50mL (Bottle)	146.6 uS/cm Conductivity Calibration Standard	±0.3% (25°C)	500mL/250mL/50mL (Bottle)	1408 uS/cm Conductivity Calibration Standard	±0.3% (25°C)	500mL/250mL/50mL (Bottle)	12.85 mS/cm Conductivity Calibration Standard	±0.3% (25°C)	500mL/250mL/50mL (Bottle)	
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<p><b>Standard Seawater</b> Salinity Level value: 5PSU 20PSU 35PSU</p>																			
<p><b>Turbidity, Sludge concentration calibration solution</b> 400NTU Recommend 3 Calibrate once every month</p>																			

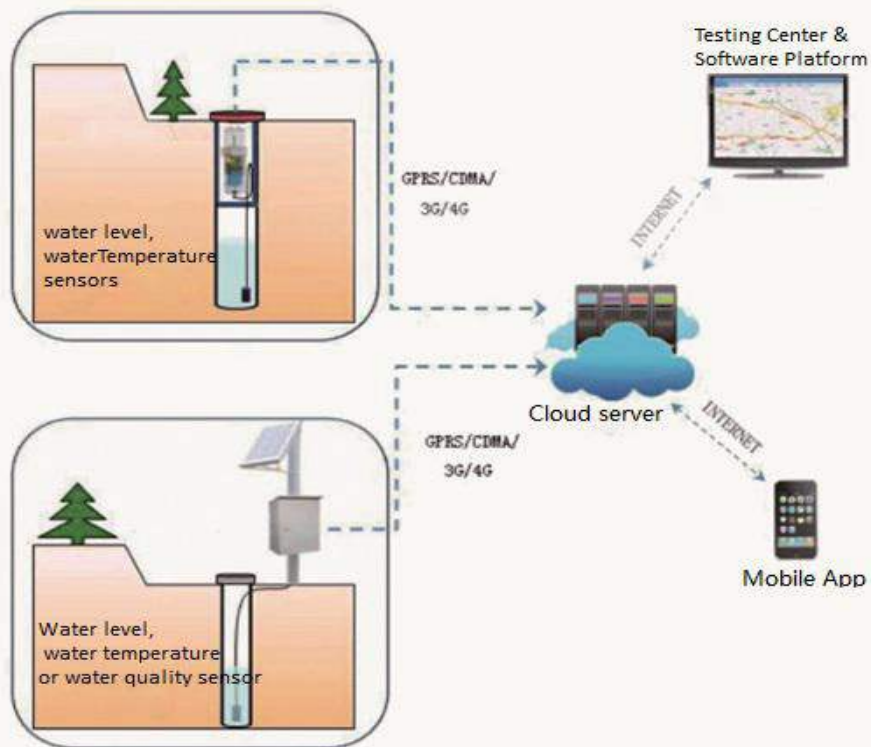
<p><b>Chlorophyll, blue-green algae calibration solution</b>          Calibration is recommended every 3 months</p>	
<p><b>Ammonia nitrogen calibration solution</b>          10ppm 1000ppm          Calibration is recommended every 3 months</p>	
<p><b>COD Calibration Solution</b>          Calibration is recommended every 3 months</p>	

## VI- Industry Application



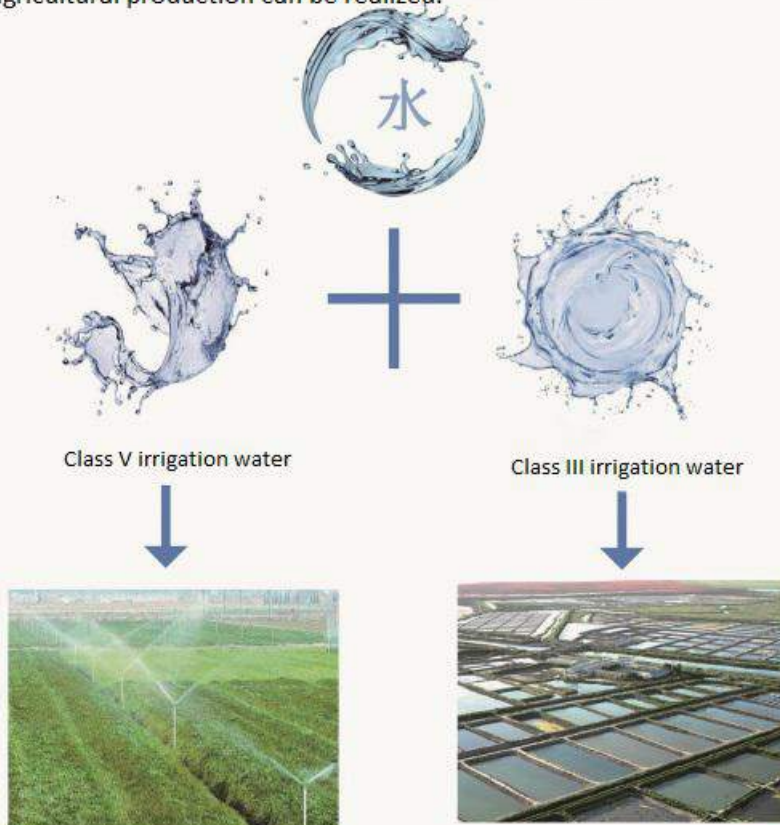
### Underground Pipe Network Water Environment Monitoring

Make full use of miniaturized and diversified detection schemes to detect real-time data of conventional five parameters, COD, ammonia nitrogen, liquid level, flow, etc., through advanced technologies such as online detection and intelligent data analysis of the Internet of Things, to provide data coverage for the urban underground pipe network.



### Modern Agriculture Water Quality Analysis Application

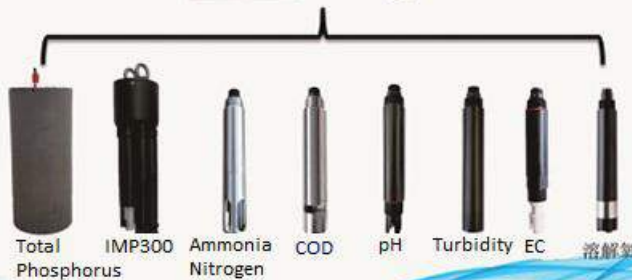
For Recirculating Aquaculture Systems (RAS), dew pond aquaculture, soilless culture, and irrigation canal, the online continuous automatic analysis method is adopted to realize monitoring informationization. On the basis of effectively and timely preventing and controlling the occurrence of breeding disasters and reducing the risks of breeding and planting, high-efficiency and energy-saving agricultural production can be realized.





## Environmental Monitoring of Water Conservancy and Surface Water Environment

The gridded big data supply of rivers, lakes and reservoirs provides cost-effective one-stop solutions for hardware, operation and maintenance, and data processing for environmental protection, water conservancy, communication operators, and enterprises in the environmental monitoring industry. Real-time online monitoring and statistical analysis of the water environment quality of rivers, lakes, reservoirs, drinking water sources, sewage outlets, etc., to provide decision support for environmental supervision departments in the prevention and control of water environment pollution.



### On-line Monitoring of Water Supply and Sewage Water Affairs

Provide energy-saving and efficient online monitoring hardware and data services for urban secondary water supply and village drinking water projects, township sewage plants and distributed sewage treatment plants and inlet/outlet treatment processes, and realize the construction of drinking water informatization, and ensure the safety of water quality in the "last mile". Monitoring indicators cover COD, ammonia nitrogen, total phosphorus, total nitrogen, suspended solids, and conventional five parameters.



Sewage

Suspended solids	Ammonia Nitrogen	Oxygen Demand
SS	NHN	COD



Water Quality Monitoring

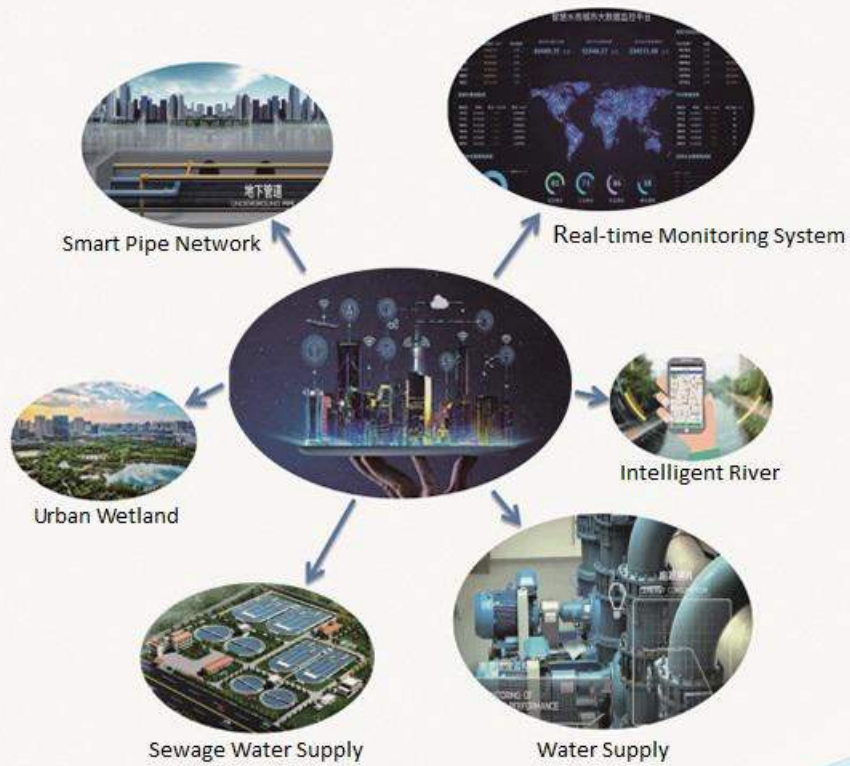
Sewage treatment plant



Discharge

### Industrial Water Environment Monitoring

In order to prevent and control water pollution and rationally develop and utilize water resources, the online water quality monitoring method combined with 5G, cloud computing, artificial intelligence and Internet of Things (AI+IOT) technology is adopted for various water use in the industrial production process. Monitoring and control to prevent industrial water from affecting product quality or causing damage.





### Three-dimensional Monitoring of Marine Environment and Ships

As for the marine ecological environment, the buoy online monitoring system equipped with an in-situ water quality analyzer is used to three-dimensionally monitor the deep-sea indicators (temperature, salinity, nutrients, chlorophyll, blue-green algae) and offshore indicators (COD, ammonia nitrogen, conventional five parameters). Building a three-dimensional monitoring system to realize the leap from low-frequency static to long-term continuous dynamic monitoring of marine environment.

