



# Electrochemical & Water Quality Analyzer

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Variety&Reliability

PEAK Instruments Inc.

# COMPANY PROFILE



**PEAK** Instruments Inc is located in Houston, TX-77084, where our head office and warehouse are also located, which is a high tech enterprise integrated with R&D, production, sales and service of spectrophotometer, AAS, pH meter, conductivity meter, dissolved oxygen meter, Ion meter and balances, which have wide applications in the following areas like metallurgy, pharmacy, food, health, institutes, biological chemistry, life science, petrochemical industry, quality control, environmental protection, electrochemistry and water quality analysis, etc..

We have professional teams of management, R&D, production, QC, sales and technical support, which guarantee good quality products, competitive prices and efficient service for global customers. We have CE and ISO9001 certificates. We continuously absorb new ideas and technologies to improve our products and services in accordance with the concept of innovation, quality and service.

We have steady growth and good reputation in the markets of more than 95 countries, like USA, Argentina, Italy, Germany, Spain, Russia, Korea, India, Indonesia and Egypt.

## ■ Our Promise

Respond to customers and provide solutions in 8 hours.

## ■ Our Mission

Provide high quality products and services.

## ■ Our Vision

To be a well-known brand for analytical instruments.

PEAK Instruments look forward to your cooperation.

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# T-710 Series pH Meter



## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- English and Chinese operating system, humanized design with adjustable screen brightness. System language can be customized according to specific requirements.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Big built-in memory can store 300 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Can set up pH measurement modes of high purity water and pure water with ammonia to meet the requirements of power, petrochemical and other industries(only for model T-710P).
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- With optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 dustproof and waterproof housing.

## Standard Configuration

1. T-710 pH meter	1 unit	2. Composite electrode	1 pc
3. Rotary electrode holder	1 pc	4. pH calibration buffer	1 set
5. 12V power adapter	1 pc	6. Brief operating manual	1 copy
7. USB flash drive	1 pc		



# Specifications

MODEL		T-710L	T-710P	T-710H
<b>Description</b>		General laboratory bench pH , suitable for measuring moderate ionic strength solutions, such as surface water, lake water and industria waste water. It can be used in most of the areas related to water quality analysis.	Measure pH value of high purity water in power, petrochemical and other industries.	High precision laboratory bench pH meter, suitable for measuring solution of weak ionic strength and low turbid liquid solutions. It can be used in the high-precision pH measurements, such as scientific research, quality control, biotechnology, fine chemicals and acid-base titration.
<b>Display</b>		7-inch capacitive touch screen with resolution 1024*600		
<b>pH</b>	Measurement range	(-2.00 ~19.99)pH	(-2.00 ~19.99)pH	(-2.000 ~19.999)pH
	Resolution	0.1/0.01 pH	0.1/0.01 pH	0.01/0.001 pH
	Accuracy	±0.02 pH	±0.02 pH	±0.01 pH
	Input current	≤1×10 <sup>-12</sup> A		
	Input impedance	≥1×10 <sup>12</sup> Ω		
	Stability	+0.01 pH/3h		
	Temperature compensation	(0~100) ℃ (auto or manual)		
<b>mV</b>	Measurement range (mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV		
	Resolution	1mV		0.1mV
	Accuracy	±0.1%FS		±0.03% FS
<b>Temperature</b>	Range	-10 ℃ ~110 ℃		
	Resolution	0.1 ℃		
	Accuracy	±0.5 ℃		
<b>Calibration</b>		Automatic (1, 2, 3 points) USA, NIST and China standards		
<b>Others</b>	Data storage	300 sets		
	Power	DC 12V/1A		
	Communication interface	USB(A), USB(B), Wireless Bluetooth module optional		
	Size & Weigh	240×170×70mm/600g		
<b>Working Conditions</b>	Temperature	15~30 ℃		
	Humidity	≤85%		
	IP grade	IP54		

# T-711 Series Conductivity Meter



## Main Features

- 7 inch color high resolution(1024\*600) capacitive touch screen, high sensitivity, complete parameter display intuitive, easy to use and simple.
- Automatic calibration, automatic temperature compensation, data storage, USB output, clock display, wireless print, function setting and self-diagnose etc.
- Built-in bilingual operating system in Chinese and English, humanized operation design, with adjustable screen brightness.
- Automatically recognize 8 kinds of conductivity standard solution. User can choose any one from two series of solutions: USA series and China series.
- With optional Bluetooth module and support wireless printing to make operations more convenient for users. Optional PC software and cell phone APP.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Automatic temperature compensation conductivity electrode, and the measurement result is fast and precise.
- Can intelligently judge the electrode status to ensure that the test result is accurate.
- Dustproof and waterproof meter meets IP54 standards.

## Standard Configuration

1. T-711 conductivity meter	1 pc	4. Electrode holder and base	1 set
2. Composite conductivity electrode	1 pc	5. Instruction manual in USB	1 copy
3. Power adapter	1 pc		

## Specifications

MODEL	T-711L	T-711H	T-711P	T-711C
<b>Description</b>	Lab conductivity meter. Measure the conductivity of common water solutions, especially widely used in the areas of education and scientific research.	High precision conductivity meter. Suitable for high precision conductivity measurement in scientific research, quality control, biotechnology and fine chemistry industry.	High purity water conductivity meter. Measure the conductivity of reverse osmosis water, distilled water and high purity water in power plants, microelectronics and pharmaceutical industries.	High concentration conductivity meter
<b>Measuring range</b>	Conductivity: (0.00~20.00) $\mu$ S/cm (20.0~200.0) $\mu$ S/cm (200~2000) $\mu$ S/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm Resistivity: (0 ~100) M $\Omega$ ·cm TDS: (0 ~100) g/L Salinity: (0 ~100) ppt	Conductivity: (0.00~20.00) $\mu$ S/cm (20.0~200.0) $\mu$ S/cm (200~2000) $\mu$ S/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm Resistivity: (0 ~100) M $\Omega$ ·cm TDS: (0 ~100) g/L Salinity: (0~100) ppt		
<b>Resolution</b>	0.01/0.1/1 $\mu$ S/cm 0.01/0.1mS/cm			
<b>Accuracy</b>	Electrode: 1.0% FS Instrument: $\pm$ 1.50%FS			
<b>Temp compensation range</b>	(0~100) $^{\circ}$ C (Automatic)			
<b>Electrode constant</b>	0.1/1/10 cm <sup>-1</sup>			
<b>Temp.Measuring range</b>	-10 $^{\circ}$ C ~110 $^{\circ}$ C			
<b>Resolution</b>	0.1 $^{\circ}$ C			
<b>Accuracy</b>	5~60 $^{\circ}$ C: $\pm$ 0.5 $^{\circ}$ C Others: $\pm$ 1.0 $^{\circ}$ C	5 ~ 60 $^{\circ}$ C: $\pm$ 0.3 $^{\circ}$ C Others: $\pm$ 0.5 $^{\circ}$ C		
<b>Data storage</b>	300 sets			
<b>Storage content</b>	Measurement series number, measuring value, temperature, ATC or MTC status, date and time			
<b>Power</b>	DC12V/1A			
<b>Communication</b>	Wireless Bluetooth, USB			
<b>Size &amp; Weight</b>	240 × 170 × 70mm/600g			
<b>Ambient temperature</b>	5~35 $^{\circ}$ C			
<b>Ambient humidity</b>	$\leq$ 80%			
<b>IP grade</b>	IP54			

# T-712 Lab DO Meter

Laboratory bench Dissolved Oxygen meter, which is suitable for aquaculture, water source monitoring, waste water treatment and environmental protection monitoring and other industries, also widely used in education and scientific research fields.



## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 300 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- With optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional PC software and cell phone APP.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- IP54 dustproof and waterproof.
- Optional real time data transmission to Android cell phone via wireless Bluetooth.
- Bench DO meter is polarographic instrument and suggested to be used with our magnetic stirrer.



## Specifications

MODEL	T-712
Display	7-inch capacitive touch screen
Parameters	Concentration, Saturation, Temperature
DO Range	0.00 ~ 20 mg/L(ppm)
Resolution	0.01/0.1
DO Accuracy	±0.3% ±0.4mg/L
Do Saturation	0.0 ~ 200%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(-10~110)℃
Temperature Resolution	0.1℃
Temperature Accuracy	±0.5℃
Temperature compensation range	(0~100)℃ (automatic)
Salinity compensation range	(0.0~50.0)g/L
Air pressure compensation range	(80~105)kPa(automatic)
Air pressure resolution	1
Air pressure Accuracy	± 2%
Stability	(±0.07mg/L)1h
Response time	≤30s(25℃, 90% response)
Data Storage	300 sets, USB for huge storage
Communication Interfaces	USB, Bluetooth
Working Conditions	Temperature: 5-40° Humidity: 5-85%
Power Requirements	12V1A(with power adapter)
Size & Weight	240*170*70mm/600g

## Standard Configuration

1. T-712 DO Meter	1 unit
2. Composite DO electrode	1 pc
3. Rotary electrode holder	1 pc
4. 12V power adapter for instrument	1 pc
5. Membrane cap	3 pcs
6. DO electrode electrolyte (30ml)	1 bottle
7. User manual in USB	1 copy

# T-713 Series Ion Concentration Meter



## Main Features

- Test ions in aqueous solutions with the features of simple sample process, quick and accurate measurements. 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanization design with adjustable screen brightness.
- Big built-in memory can store 300 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Can test electric potential, pH, ORP, Ion concentration and temperature.
- Quick switch between different units: g/L, mol/L, ppm.
- Smart judge of electrode status to ensure accurate use for operators.
- With optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.

## Standard Configuration

1. Ion concentration meter	1 unit	5. Rotary electrode holder	1pc
2. Ion electrode	1 pc	6. 12V Power adapter	1pc
3. Reference electrode	1 pc	7. User manual	1copy
4. Temperature electrode	1 pc	8. USB flash drive	1 pc

Description	Model	Applications
Fluoride Ion Meter	T-713F	Test and analysis of the fluoride in drinking water, surface water, sea water, living sewage and industrial wastewater and the fluorine ion in mineral, organic and biological materials.
Sodium Ion Meter	T-713Na	Suitable for measurement of sodium ion and pH value in natural water, boiler water and industrial drainage, especially for the quality monitoring of high purity water in power plant.
Chloride Ion Meter	T-713Cl	Measure chloride ion and pH value in drinking water, food and sewage.
Calcium Ion Meter	T-713Ca	Test calcium ion and pH value of water solutions. Widely used in the analysis and research of water quality, biochemistry and biomedicine.
Bromide Ion Meter	T-713Br	Test bromide ion and pH value in drinking water, food and sewage.
Nitrate Ion Meter	T-713NO	Test nitrate ion and pH value in drinking water, food and sewage.
Potassium Ion Meter	T-713K	Measure potassium ion and pH value in drinking water, food and sewage.
Ammonia Ion Meter	T-713NH	Test ammonia & nitrogen and pH value in drinking water, food and sewage.
Copper Ion Meter	T-713Cu	Test copper ion and pH value in food, beverage, electroplating industry and sewage.
Iodide Ion Meter	T-713I	Test iodide ion and pH value in drinking water, food and sewage.

## Specifications

<b>Measurement Range</b>	pH/pX	(-2.00 ~ 20.00)pH, (0.00 ~ 14.00) pX
	mV	(-1999.9 ~ 1999.9) mV
	Concentration	(0 ~ 1999.9), optional units: mol/L, g/L, ppm
	Temperature	(-10.0 ~ 110.0) °C
<b>Resolution</b>	pH/pX	0.01pH/pX
	mV	1mV
	Concentration	4 significant digits(expressed in scientific notation)
	Temperature	0.1 °C
<b>Accuracy</b>	pH/pX	0.02pH/pX
	mV	0.1%FS
	Concentration	±0.3%
	Temperature	±0.5 °C
<b>Power Supply</b>	12V/1A, with standard power adapter	
<b>Size &amp; Weight</b>	240×170×70mm, 600g	

# T-720 Precise pH/Conductivity Meter

Suitable for high precision pH/conductivity measurements in scientific research, quality control, biotechnology and fine chemistry industry.



## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 300 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of 8 kinds of standard conductivity solutions and there are two series of standard solutions for option: USA series and China series.
- With optional Bluetooth module and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- Adopt advanced conductivity measurement technology, one point calibration can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Auto recognition of standard pH buffers. There are three series of standard buffer solutions for option: USA, NIST and China series.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 dustproof and waterproof housing.

## Specifications

MODEL	T-720	
pH	Measuring range	(-1.99~19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤1×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temp compensation	(0~100) °C (auto or manual)
mV	Measuring range (mV/ORP/EH)	-1999.9mV ~ 0~1999.9mV
	Resolution	1mV
	Accuracy	±0.1%FS
Conductivity	Measuring range	Conductivity: (0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0 ~100) MΩ·cm TDS: (0 ~100) g/L Salinity: (0 ~100) ppt
	Resolution	0.01/0.1/1μS/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: ±0.5% FS, Instrument: ±0.80%FS
	Temp. compensation range	(0~100) °C (auto)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
Temperature	Measuring range	-10 °C ~110 °C
	Resolution	0.1 °C
	Accuracy	5~60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	300 sets
	Power requirements	DC 12V/1A
	Communication	Bluetooth, USB
	Size&Weight	240×170×70mm/600g
Working Conditions	Ambient temperature	5~35 °C
	Ambient humidity	≤85%
	IPgrade	IP54



# T-721 Precise pH/DO Meter

Precise measurements of pH/DO in fields of biotechnology, aquaculture, power plant and environmental protection and also more widely used in areas of education and scientific research.



## Main Features

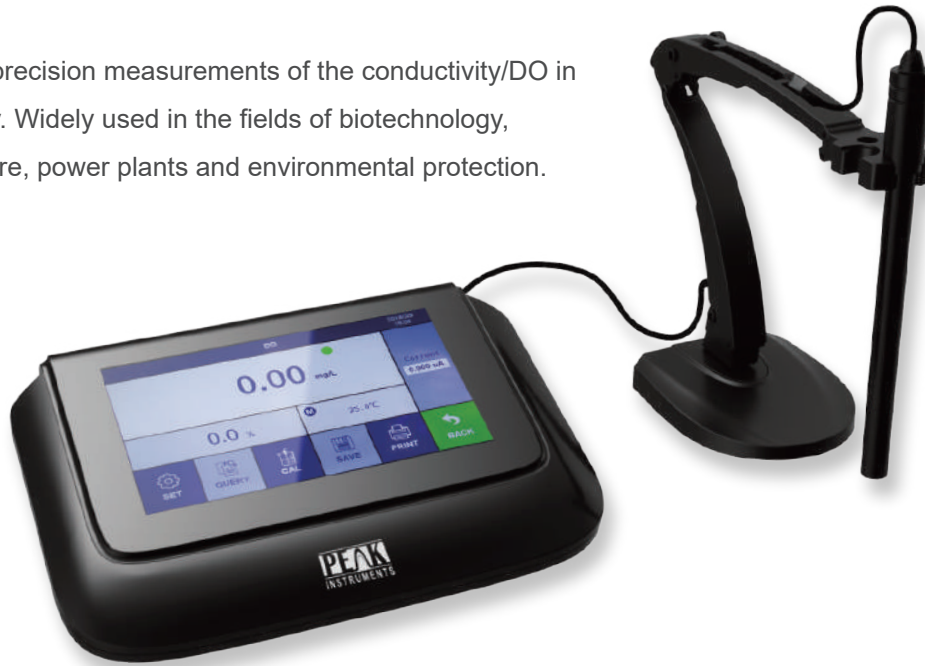
- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 300 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 min for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- With optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.
- DO measurement is polarographic and suggested to be used with our magnetic stirrer or other appropriate models chosen by customers.

## Specifications

MODEL	T-721	
pH	Measuring range	(-1.99~19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤1×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temp compensation	(0~100) °C (auto or manual)
mV	Measuring range (mV/ORP/EH)	-1999.9mV ~ 0~1999.9mV
	Resolution	1mV
	Accuracy	±0.1%FS
Conductivity	Measuring range	(0 ~20.00) mg/L(ppm) (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1%
	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temp compensation range	(0 ~100) °C (automatic)
	Salinity compensation range	(0~ 45) ppt (automatic)
	Air pressure compensation	(80 ~105) kPa (automatic)
	Electrode type	Polarographic
Temperature	Measuring range	-10 °C ~110 °C
	Resolution	0.1 °C
	Accuracy	5~60 °C:±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	300 groups
	Power requirements	DC 12V/1A
	Communication	Bluetooth, USB
	Size&Weight	240×170×70mm/600g
Working Conditions	Ambient temperature	5~35 °C
	Ambient humidity	≤85%
	IPgrade	IP54

# T-723 Precise Conductivity/DO Meter

For high-precision measurements of the conductivity/DO in laboratory. Widely used in the fields of biotechnology, aquaculture, power plants and environmental protection.



## Main Features

- 7inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system(or custom Language according to specific requirements), humanize design with adjustable screen brightness.
- Built-in big memory can store 300 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3-5 min for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Auto recognition of 8 kinds of standard conductivity solutions and there are two series of standard solutions for option: USA series and China series.
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinit to ensure the conversion precision of the full scale.
- With optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.

## Specifications

MODEL	T-723	
<b>Conductivity</b>	Measuring range	Conductivity: (0.00~20.00) $\mu\text{S/cm}$ (20.0~200.0) $\mu\text{S/cm}$ (200~2000) $\mu\text{S/cm}$ (2.00~20.00) $\text{mS/cm}$ (20.0~200.0) $\text{mS/cm}$ (200~2000) $\text{mS/cm}$ (K=10) Resistivity: (0 ~100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0 ~100) $\text{g/L}$ Salinity:(0 ~100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1/1 $\text{mS/cm}$
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp compensation	(0 ~100) $^{\circ}\text{C}$ (automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
<b>Dissolved Oxygen</b>	Measuring range	(0 ~20.00) $\text{mg/L}$ (ppm), (0 ~200.0)%
	Resolution	0.1/0.01 $\text{mg/L}$ (ppm), 1/0.1 %
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ $\text{mg/L}$
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ $\text{mg/L}$
	Temperature compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(80~105) $\text{kPa}$ (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
<b>Temperature</b>	Measuring range	-10 $^{\circ}\text{C}$ ~110 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	5~60 $^{\circ}\text{C}$ : $\pm 0.4$ $^{\circ}\text{C}$ Others: $\pm 0.8$ $^{\circ}\text{C}$
<b>Other Technical Parameters</b>	Data storage	300 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC status, date and time
	Power requirements	DC12V/1A
	Communication	Bluetooth, USB
	Size&Weight	240×170×70mm/600g
<b>Working Conditions</b>	Ambient temperature	10~30 $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

## Standard Configuration

1. Benchtop conductivity/DO meter	1 unit	2. Rotary electrode holder	1 pc
3. Conductivity electrode with ATC	1 pc	4. Membrane cap	3 pcs
5. Dissolved Oxygen Electrode	1 pc	6. 12V power adapter	1 pc
7. DO electrode electrolyte (30ml)			1 bottle
8. Brief operating manual (soft copy in USB)			1 copy

# T-730 pH/mV/Conductivity/DO Meter

Multi-parameter analyzer for high precision measurement in laboratory covering 10 kinds of electrochemical parameters like pH, conductivity and dissolved oxygen. Suitable for the fields of petroleum, chemical, pharmacy, power plants and environmental protection, also widely used in areas of education and scientific research.



## Main Features

- 7 inch color capacitive screen with high resolution (1024\*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- English and Chinese operating system, humanized design with adjustable screen brightness.
- Built-in big memory can store 300 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 min for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Auto recognition of 8 kinds of standard conductivity solutions and there are two series of standard solutions for option: USA series and China series.
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Auto recognition of standard pH buffers. And there are three series of buffer solutions for option: USA series, NIST series, China series.
- With optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.
- DO measurement is polarographic and suggested to be used with our magnetic stirrer or other appropriate models chosen by customers.



# Specifications

MODEL		T-730
pH	Measuring range	(-1.99~19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤1×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01pH/3h
	Temp compensation	(0~100) °C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV~0~1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Conductivity	Measuring range	Conductivity: (0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0~100)MΩ·cm TDS: (0~100) g/L Salinity: (0~100) ppt
	Resolution	0.01/0.1/1μS/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: ±0.5% FS, Instruments: +0.80%FS
	Temp compensation	(0~100) °C (automatic)
	Electrode constants	0.1/1/10 cm <sup>-1</sup>
	Reference temperature	25 °C, 20 °C, 18 °C
Dissolved Oxygen	Measuring range	(0~20.00)mg/L(ppm), (0~200.0)%
	Resolution	0.1/0.01 mg/L(ppm)1/0.1%
	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temperature compensation	(0~100) °C (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(80 ~105)kPa (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Temperature	Measuring range	-10 °C~110 °C
	Resolution	0.1 °C
	Accuracy	5~60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	300 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC status, date and time
	Power	DC12V/1A
	Communications	USB, wireless Bluetooth
	Size & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5~35 °C (grade 0.01)
	Ambient humidity	≤85%
	IPgrade	IP54

# S-610 Series Benchtop pH Meter



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.

## Specifications

MODEL	S-610H	S-610L	S-610P
Display	6.5 inch LCD screen	6.5 inch LCD screen	6.5 inch LCD screen
Parameters	pH, mV, temperature	pH, mV, temperature	pH, mV, temperature
pH Measuring range	-2.000~18.000 pH	-2.00~18.00 pH	-2.00~18.00 pH
pH Resolution	0.001/0.01 pH	0.01/0.1 pH	0.01/0.1 pH
pH Accuracy	±0.01pH	±0.02pH	±0.02pH
Input current	≤2×10 <sup>-12</sup> A	≤2×10 <sup>-12</sup> A	≤2×10 <sup>-12</sup> A
Input impedance	≥1×10 <sup>12</sup> Ω	≥1×10 <sup>12</sup> Ω	≥1×10 <sup>12</sup> Ω
mV Measuring range	-1999.99~1999.99 mV	-1999.99~1999.99 mV	-1999.99~1999.99 mV
mV Resolution	0.1mV	1mV	1mV
mV Accuracy	±0.03%FS	±0.1%FS	±0.1%FS
Temp Measuring range	0~100 ℃	0~100 ℃	0~100 ℃
Temp Resolution	0.1 ℃	0.1 ℃	0.1 ℃
Temp Accuracy	±0.5 ℃	±0.5 ℃	±0.5 ℃
Temp Compensation	0-100 ℃ , automatic	0-100 ℃ , automatic	0-100 ℃ , automatic
Calibration	3 point, automatic	3 point, automatic	3 point, automatic
Buffers	USA/NIST/China	USA/NIST/China	USA/NIST/China
Data storage	150 sets	150 sets	150 sets
Communication interfaces	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth
Working Conditions	Temperature: 5-40° Humidity: 5-85%	Temperature: 5-40° Humidity: 5-85%	Temperature: 5-40° Humidity: 5-85%
Power	12V/1A	12V/1A	12V/1A
Size & Weight	240×170×70mm/600g	240×170×70mm/600g	240×170×70mm/600g

## Standard Configuration

- |   |        |
|---|--------|
| 1. S-610 pH meter                                   | 1 unit |
| 2. Composite electrode(subject to different models) | 1 pc   |
| 3. Rotary electrode holder                          | 1 pc   |
| 4.pH calibration buffer                             | 1 set  |
| 5.12V power adapter                                 | 1 pc   |
| 6.USB with user manual                              | 1 pc   |

# S-611 Series Benchtop Conductivity Meter



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.

## Specifications

MODEL	S-611L	S-611H	S-611P
Display	6.5 inch LCD screen		
Parameters	conductivity, Resistivity, TDS, salinity, temperature		
Measuring range	(0.00~20.00) $\mu\text{S/cm}$		
	(20.0~200.0) $\mu\text{S/cm}$		
	(200~2000) $\mu\text{S/cm}$		
	(2.00~20.00) $\text{mS/cm}$		
	(20.0~200.0) $\text{mS/cm}$		
	-	(200~2000) $\text{mS/cm}$ (K=10)	
Conductivity resolution	0.01/0.1/1 $\mu\text{S/cm}$		
	0.01/0.1/1 $\text{mS/cm}$		
Conductivity Accuracy	Electrode: $\pm 1.0\%$ FS	Electrode: $\pm 0.5\%$ FS	
	Instrument: $\pm 1.50\%$ FS	Instrument: $\pm 0.8\%$ FS	
Resistivity measuring range	0 ~ 100 $\text{M}\Omega\cdot\text{cm}$		
TDS	0 ~ 100g/L		
Salinity	0 ~ 100 ppt		
Temp measuring range	(0 ~ 100) $^{\circ}\text{C}$		
Temp resolution	0.1 $^{\circ}\text{C}$		
Temp accuracy	$\pm 0.5$ $^{\circ}\text{C}$		
Data storage	150 sets		
Communication interfaces	USB, Bluetooth		
Working conditions	Temperature: 5 ~ 40 $^{\circ}$ Humidity: 5 ~ 85%		
Power	12V/1A		
Size & Weight	240 × 170 × 70mm/600g		

## Standard Configuration

1.S-611 benchtop conductivity meter	1 unit
2. Conductivity electrode (subject to different models)	1 pc
3. Rotary electrode holder	1 pc
4. 12V power adapter	1 pc
5. USB with user manual	1 pc



# S-612 Benchtop Dissolved Oxygen Meter



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.

## Standard Configuration

1.S-612 Dissolved Oxygen meter	1 unit	5.Membrane cap(for DO electrode)	3 pcs
2.Composite DO electrode	1 pc	6.DO electrode electrolyte (30ml)	1 bottle
3.Rotary electrode holder	1 pc	7.Brief operating manual	1 copy
4.12V power adapter	1 pc		

Note: benchtop DO meter is polarographic, suggest using it together with magnetic stirrer (optional).

## Specifications

MODEL	S-612
Display	6.5 inch LCD screen
Parameters	Concentration, Saturation, Temperature
DO Range	0.00 ~ 20 mg/L(ppm)
DO Resolution	0.01/0.1
DO Accuracy	±0.3%
DO Saturation	0.0 ~200%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(0~100)℃
Temperature Resolution	0.1℃
Temperature Accuracy	±0.5℃
Temperature compensation range	(0 ~ 100)℃ (automatic)
Salinity compensation range	(0.0 ~ 50.0)g/L
Pressure compensation range	(80~105)kPa(automatic)
Pressure resolution	1
Pressure Accuracy	± 2%
Stability	(±0.07mg/L)/1h
Response time	≤30s(25℃, 90% response)
Data Storage	150 sets, USB storage
Communication Interfaces	USB, Bluetooth
Working Conditions	Temperature: 5 ~ 40° Humidity: 5 ~ 85%
Power Requirements	12V/1A(with standard AC adapter)
Size & Weight	240 × 170 × 70mm/600g

# S-613 Series Ion Concentration Meter

Test ions in aqueous solutions with the features of simple sample process, quick and accurate measurements.



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Can test electric potential, pH, ORP, Ion concentration and temperature.
- Quick switch between different units: g/L, mol/L, ppm.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.

## Standard Configuration

1. Ion concentration meter	1 unit	2. Ion electrode	1 pc
3. Reference electrode	1 pc	4. Temperature electrode	1 pc
5. Rotary electrode holder	1pc	6. 12V Power adapter	1pc
7. User manual	1copy	8. USB flash drive	1 pc

Model	Description	Applications
Fluoride Ion Meter	S-613F	Test and analysis of the fluoride in drinking water, surface water, sea water, living sewage and industrial wastewater and the fluorine ion in mineral, organic, and biological materials.
Sodium Ion Meter	S-613Na	Suitable for measurement of sodium ion and pH value in natural water, boiler water and industrial drainage, especially for the quality monitoring of high purity water in power plant.
Chloride Ion meter	S-613Cl	Measure chloride ion and pH value in drinking water, food and sewage.
Calcium Ion Meter	S-613Ca	Test calcium ion and pH value of water solutions. Widely used in the analysis and research of water quality, biochemistry and biomedicine.
Bromide Ion Meter	S-613Br	Test bromide ion and pH value in drinking water, food and sewage.
Nitrate Ion Meter	S-613NO	Test nitrate ion and pH value in drinking water, food and sewage.
Potassium Ion Meter	S-613K	Measure potassium ion and pH value in drinking water, food and sewage.
Ammonia Ion Meter	S-613NH	Test ammonia & nitrogen and pH value in drinking water, food and sewage.
Copper Ion Meter	S-613Cu	Test copper ion and pH value in food, beverage, electroplating industry and sewage.
Iodide Ion Meter	S-613I	Test iodide ion and pH value in drinking water, food and sewage.

## Specifications

<b>Measurement Range</b>	pH/pX	(-2.00~18.00)pH, (0.00~14.00) pX
	mV	(-1999.9~1999.9) mV
	Concentration	(0~19990), optional units: mol/L, g/L, ppm
	Temperature	(0~100.0) °C
<b>Resolution</b>	pH/pX	0.01pH/pX
	mV	1mV
	Concentration	4 significant digits(expressed in scientific notation)
	Temperature	0.1 °C
<b>Accuracy</b>	pH/pX	0.02pH/pX
	mV	0.1%FS
	Concentration	±0.5%
	Temperature	±0.5 °C
<b>Power Supply</b>		DC 12V/1A, with standard power adapter
<b>Size &amp; Weight</b>		240×170×70mm, 600g

# S-620 Precise pH/Conductivity Meter

Suitable for high precision pH/conductivity measurements in scientific research, quality control, biotechnology and fine chemistry industry.



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: USA series, NIST series and China series.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.

## Specifications

MODEL	S-620	
pH	Measuring range	(-2.00 ~ 18.00) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temp compensation	(0 ~ 100) °C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0~1999.9mV
	Resolution	1mV
	Accuracy	±0.1%FS
Conductivity	Measuring range	Conductivity: (0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0~100) MΩ·cm TDS: (0 ~100) g/L Salinity: (0~100) ppt
	Resolution	0.01/0.1/1μS/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: ±0.5% FS, Instrument: ±0.80%FS
	Temp. compensation range	(0~100) °C (auto)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
Temperature	Measuring range	0 °C~100 °C
	Resolution	0.1 °C
	Accuracy	5 ~ 60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	150 sets
	Power requirements	DC 12V/1A
	Communication	Bluetooth, USB
	Size&Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IPgrade	IP54

1.S-620 Benchtop meter	1 unit	5.Conductivity electrode	1 pc
2.Composite pH electrode	1 pc	6.12V power adapter	1 pc
3.Rotary electrode holder	1 pc	7.User manual	1 copy
4.pH calibration buffer	1 set		

# S-621 Precise pH/DO Meter

Precise measurements of pH/DO in fields of biotechnology, aquaculture, power plant and environmental protection, and also more widely used in areas of education and scientific research.



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: USA series, NIST series and China series.
- Do mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.



## Specifications

MODEL	T-721	
pH	Measuring range	(-2.00~18.00) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH /3h
	Temp compensation	(0 ~ 100) °C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Dissolved Oxygen	Measuring range	(0 ~ 20.00) mg/L(ppm)(0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1%
	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30 s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temp compensation range	(0 ~ 100) °C (automatic)
	Salinity compensation range	(0 ~ 45) ppt (automatic)
	Air pressure compensation	(80 ~ 105) kPa (automatic)
	Electrode type	Polarographic
Temperature	Measuring range	0 °C ~ 100 °C
	Resolution	0.1 °C
	Accuracy	5 ~ 60 °C: ±0.4 °C Others: ±0.8 °C
Other Technical Parameters	Data storage	150 groups
	Power requirements	DC 12V/1A
	Communication connectors	Bluetooth, USB
	Size&Weight	240 × 170 × 70mm/600g
Working Conditions	Temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP54

## Standard Configuration

1. S-621 Benchtop pH/DO meter	1 unit	2. Composite pH electrode	1 pc
3. Rotary electrode holder	1 pc	4. pH calibration buffer	1 set
5. Dissolved Oxygen Electrode	1 pc	6. Membrane cap(for DO electrode)	3 pcs
7. DO electrode electrolyte (30mL)	1 bottle	8. 12V power adapter	1 pc
9. User manual	1 copy		

# S-623 Precise Conductivity/DO Meter

For high-precision measurements of the conductivity/DO in laboratory. Widely used in the fields of biotechnology, aquaculture, power plants and environmental protection.



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization. Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users.
- Optional data transmission to cell phone via wireless Bluetooth.
- IP54 dustproof and waterproof housing.

## Specifications

MODEL	S-623	
Conductivity	Measuring range	Conductivity: (0.00~20.00) $\mu\text{S/cm}$ (20.0~200.0) $\mu\text{S/cm}$ (200~2000) $\mu\text{S/cm}$ (2.00~20.00) $\text{mS/cm}$ (20.0~200.0) $\text{mS/cm}$ (200~2000) $\text{mS/cm}$ (K=10) Resistivity: (0 ~100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0~100) $\text{g/L}$ Salinity: (0~100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1/1 $\text{mS/cm}$
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0 ~20.00) $\text{mg/L}$ (ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 $\text{mg/L}$ (ppm), 1/0.1%
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ $\text{mg/L}$
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ $\text{mg/L}$
	Temperature compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(80~105)kPa (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Temperature	Measuring range	0 $^{\circ}\text{C}$ ~100 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	5~60 $^{\circ}\text{C}$ : $\pm 0.4$ $^{\circ}\text{C}$ Others: $\pm 0.8$ $^{\circ}\text{C}$
Other Parameters	Data storage	150 groups
	Power	DC 12V/1A
	Communications	USB, wireless Bluetooth
	Size & Weight	240×170×70mm/600g
Working Conditions	Ambient temperature	5~35 $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

## Standard Configuration

1. S-623 conductivity/DO meter	1 unit	2. Conductivity electrode	1 pc
3. Rotary electrode holder	1 pc	4. Dissolved Oxygen Electrode	1 pc
5. Membrane cap (for DO electrode)	3 pcs	6. DO electrode electrolyte (30ml)	1 bottle
7. 12V power adapter	1 pc	8. User manual in USB	1 copy

# S-630 pH/mV/Conductivity/DO Meter

Multi-parameter analyzer for high precision measurement in laboratory covering 9 kinds of electrochemical parameters like pH, conductivity and dissolved oxygen. Suitable for the fields of petroleum, chemical, pharmacy, power plants and environmental protection, and also widely used in areas of education and scientific research.



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: USA series, NIST series and China series.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.

# Specifications

MODEL	S-630	
pH	Measuring range	(-2.00 ~ 18.00) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	0.01pH/3h
	Temp compensation	(0~100)°C (auto or manual )
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~0~1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
conductivity	Measuring range	Conductivity:(0.00~20.00) μS/cm (20.0~200.0) μS/cm (200~2000) μS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0 ~100)MΩ·cm TDS: (0~100) g/L Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1μS/cm 0.01/0.1/1mS/cm
	Accuracy	Electrode: ±0.5% FS, Instrument: ±0.80%FS
	Temp compensation	(0~100) °C (automatic)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
	Reference temperature	25 °C, 20 °C, 18 °C
	Measuring range	(0 ~20.00) mg/L(ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
Dissolved Oxygen	Accuracy	±0.3%, ±0.40 mg/L
	Response time	≤30s (25 °C ,90% response)
	Residual current	≤0.1 mg/L
	Temperature compensation	(0~100)°C (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(80~105)kPa (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
Temperature	Electrode type	Polarographic
	Measuring range	0 °C~100 °C
	Resolution	0.1 °C
Other Parameters	Accuracy	5~60 °C: ±0.4 °C Others: ±0.8 °C
	Data storage	150 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC status, date and time
	Power	DC 12V/1A
	Communications	USB, wireless Bluetooth
	Size & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5~35 °C (grade 0.01)
	Ambient humidity	≤85%
	IP grade	IP54

# L-510 Tablet pH Meter



## Main Features

- 5 inch LCD screen with wide 150° viewing angle, beautiful and compact design.
- Compact bench cradle with rotary electrode holder to save space in laboratory.
- Small size and portable make it easy to carry and remove in laboratory and outdoors.
- Extensibility: different electrodes can be installed to test pH, conductivity and dissolved oxygen.
- Auto recognition of different electrodes after electrode is connected.
- 3.5 mm jack input for electrodes makes it very easy for electrode connection.
- Two USB and one SD card interfaces for power and data transfer.
- Can store 300 pieces of data including readings, date and time.
- Rechargeable and long lasting battery. Auto shut off if there is no operation in ten minutes.



## Specifications

MODEL	L-510	
pH	Measurement range	(-2.00~19.99)pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0~100)℃ (auto or manual )
mV	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Temperature	Range	0℃~100℃
	Resolution	0.1℃
	Accuracy	±0.5℃
Calibration		1, 2, 3, point
Other Parameters	Data storage	300 sets
	Power	DC 5V/1A
	Communication interfaces	USB
	Size & Weight	190×130×10mm/300g
Working Conditions	Temperature	(5~35)℃
	Humidity	≤85%
	IPgrade	IP54



# L-511 Tablet Conductivity Meter



## Specifications

MODEL	L-511	
<b>Conductivity</b>	Measuring range	Conductivity: (0.00 ~ 20.00) $\mu\text{S}/\text{cm}$ (20.0 ~ 200.0) $\mu\text{S}/\text{cm}$ (200~2000) $\mu\text{S}/\text{cm}$ (2.00~20.00) $\text{mS}/\text{cm}$ (20.0~ 200.0) $\text{mS}/\text{cm}$ Resistivity: (0~100) $\text{M}\Omega \cdot \text{cm}$ TDS: (0~100) $\text{g}/\text{L}$ Salinity: (0~100) ppt
	Resolution	0.01/0.1/ $1\mu\text{S}/\text{cm}$ 0.01/0.1 $\text{mS}/\text{cm}$
	Accuracy	Electrode: $\pm 1.0\% \text{FS}$ , Instrument: $\pm 1.50\% \text{FS}$
	Temp compensation range	(0~100) $^{\circ}\text{C}$ (Automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
<b>Temperature</b>	Measuring range	0~100 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	$\pm 0.5^{\circ}\text{C}$
<b>Other parameters</b>	Data storage	300 sets
	Power	DC 5V/1A
	Communication connectors	USB
	Size & Weight	190×130×10mm/300g
<b>Working conditions</b>	Ambient temperature	(5~35) $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

# L-512 Tablet Dissolved Oxygen Meter

## Main Features

- 5 inch LCD screen with wide 150° viewing angle, beautiful and compact design.
- Compact bench cradle with rotary electrode holder to save space in laboratory.
- Small size and portable make it easy to carry and remove in laboratory and outdoors.
- Extensibility: different electrodes can be installed to test pH, conductivity and dissolved oxygen.
- Auto recognition of different electrodes after electrode is connected.
- 3.5 mm jack input for electrodes makes it very easy for electrode connection.
- Two USB and one SD card interfaces for power and data transfer.
- Can store 300 pieces of data including readings, date and time.
- Rechargeable and long lasting battery. Auto shut off if there is no operation in ten minutes.

## Specifications

<b>Display</b>	5-inch LCD screen
<b>Parameters</b>	Concentration, saturation, temperature
<b>DO Range</b>	0.00~20 mg/L (ppm)
<b>Resolution</b>	0.01/0.1
<b>DO Accuracy</b>	±0.3%, ±0.4mg/L
<b>DO Saturation</b>	0.0~200%
<b>Saturation Resolution</b>	0.1%
<b>Saturation Accuracy</b>	±2.0%FS
<b>Temperature Measuring Range</b>	(0~100) °C
<b>Temperature Resolution</b>	0.1 °C
<b>Temperature Accuracy</b>	5~60 °C: ±0.5 °C, Others: ±1.0 °C
<b>Temperature compensation range</b>	(0~100) °C (automatic)
<b>Salinity compensation range</b>	(0.0~50.0)g/L
<b>Air pressure compensation range</b>	(80~105)kPa(automatic)
<b>Pressure resolution</b>	1
<b>Pressure Accuracy</b>	±2%
<b>Stability</b>	(±0.07mg/L)/1h
<b>Response time</b>	≤30s(25 °C, 90% response)
<b>Data Storage</b>	300 data, external USB storage
<b>Communication Interfaces</b>	USB
<b>Working Conditions</b>	Temperature: 5~40° Humidity: 5~85%
<b>Power Requirements</b>	DC 5V/1A
<b>Size &amp; Weight</b>	190×130×10mm/300g

# P-510 Portable pH Meter



## Main Features

- Large LCD screen with controllable white backlight.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto shut off, low voltage display.
- Auto recognition of standard pH buffers and there are three kinds of standard buffers for option: USA series, NIST series and China series.
- Can set up pH measurement modes of high purity water and ammonia added pure water.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Equipped with standard buffers and optional carrying case for outdoor purpose.
- IP57 waterproof housing.

## Specifications

MODEL	P-510	
<b>Display</b>	Large LCD screen with controllable white backlight	
<b>pH</b>	Measurement range	(-2.00 ~ 19.99)pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temp compensation	(0~100) °C (auto or manual )
<b>mV</b>	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
<b>Other Parameters</b>	Data storage	150 sets
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160×90×30mm/360g (instrument) 380×310×120mm/1.5kg (with packing)
<b>Working Conditions</b>	Environment Temperature	(5~35) °C (grade 0.01)
	Environment Humidity	≤85%
	IPgrade	IP57

## Standard Configuration

1. P-510 pH/mV meter	1unit
2. pH electrode	1pc
3. Temperature electrode	1pc
4. Standard pH buffer(pH4.00, pH6.86 and pH9.18/50ml)	1bottle/each
5. Backup AA battery	2pcs
6. Operation manual	1copy

# P-511 Portable Conductivity Meter



Measure conductivity, TDS, salinity and resistivity of water solutions, suitable for industrial and mining factories, water treatment engineering and environmental protection, especially for outdoor use.

## Main Features

- Large LCD screen with controllable white backlight.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Auto recognition of 8 standard conductivity solutions and there are two series of standard buffers for option: USA series, China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Conductivity mode has the function of non-linear temperature compensation for high purity water.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Plastic conductivity electrode with automatic temperature compensation to ensure fast and accurate result.

## Specifications

MODEL	P-511	
<b>Display</b>	Large LCD screen with controllable white backlight	
<b>Conductivity</b>	Measuring range	Conductivity: (0.00~19.99) $\mu\text{S}/\text{cm}$ (20.0~199.9) $\mu\text{S}/\text{cm}$ (200~1999) $\mu\text{S}/\text{cm}$ (2.00~19.99) $\text{mS}/\text{cm}$ (20.0~199.9) $\text{mS}/\text{cm}$ Resistivity: (0~100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0~100) $\text{g}/\text{L}$ Salinity: (0~100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1 $\text{mS}/\text{cm}$
	Accuracy	Electrode: $\pm 1.0\% \text{FS}$ , Instrument: $\pm 1.5\% \text{FS}$
	Temp compensation range	(0~100) $^{\circ}\text{C}$ (Automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
<b>Other parameters</b>	Data storage	150 sets
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160×90×30mm/360g (instrument) 380×310×120mm/1.5kg (with packing)
<b>Working conditions</b>	Environment Temperature	(5~35) $^{\circ}\text{C}$
	Environment Humidity	$\leq 85\%$
	IP grade	IP54

## Standard Configuration

1. P-511 Conductivity/TDS/Salinity/Resistivity meter	1 unit
2. Conductivity electrode	1 pc
3. Temperature electrode	1 pc
4. Backup AA battery	2 pcs
5. Operation manual	1 copy

# P-512 Portable Dissolved Oxygen Meter



Suitable for aquaculture, water source monitoring, sewage treatment and environmental protection monitoring, especially for outdoor purposes.

## Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- IP57 waterproof housing.



## Specifications

MODEL	P-512	
Display	Large LCD screen with controllable white backlight	
Dissolved Oxygen	Measuring range	(0 ~ 20.00) mg/L(ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
	Accuracy	±0.40 mg/L
	Response time	≤30s (25℃, 90% response)
	Residual current	≤0.1 mg/L
	Temperature compensation	(0 ~ 100)℃ (automatic)
	Salinity compensation	(0 ~ 45) ppt (automatic)
	Pressure compensation	(66 ~ 200) kPa (manual)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Other parameters	Data storage	150 groups
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160×90×30mm/360g (instrument) 380×310×120mm/1.5kg (with packing)
Working conditions	Environment Temperature	(5~35)℃ (grade 0.01)
	Environment Humidity	≤85%
	IP grade	IP57

## Standard Configuration

1. P-512 DO meter	1unit
2. Dissolved oxygen electrode	1pc
3. Temperature electrode	1pc
4. Membrane cap	3pcs
5. Electrode electrolyte (30ml)	1bottle
6. Backup AA battery	2pcs
7. Operation manual	1copy

# P-520 Portable pH/Conductivity Meter



## Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Double-parameter and equipped with pH electrode and conductivity electrode, can recognize electrode automatically.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Auto recognition of standard pH buffers and there are three series of standard buffers for option: USA, NIST and China.
- Able to set pH measurement modes of high purity water and pure water with ammonia.
- Auto recognition of 8 standard conductivity buffers and there are two series of standard buffers for option: USA and China standards.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Conductivity mode has the function of non-linear temperature compensation for high purity water.
- IP57 and equipped with calibration solution.



## Specifications

MODEL	P-520	
pH	Measuring range	(-2.00 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0~100)℃ (automatic)
mV	Measuring range	-1999.9mV~0~1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Conductivity	Measuring range	Conductivity: (0.00~19.99)μS/cm (20.0 ~199.9) μS/cm (200~1999) μS/cm (2.00 ~19.99) ms/cm (20.0~199.9) mS/cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt Resistivity: (0 ~ 100) MΩ·cm
	Resolution	0.01/0.1/1μS/cm, 0.01/0.1 mS/cm
	Accuracy	Electrode: ±1.0% FS, Instrument: ±1.5%FS
	Temp. compensation range	(0~100)℃ (automatic)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
	Reference temperature	25℃, 20℃, 18℃
Other	Data storage	150 groups
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V×2)
	Size & Weight	160×90×30mm/360g (instrument) 380×310×120mm/1.5kg (with packing)
Working conditions	Ambient temperature	(5~35)℃
	Ambient humidity	≤85%
	IP grade	IP57

# P-521

## Portable pH/DO Meter



Suitable for industrial and mining factories, power plant, aquaculture and environmental protection, especially for outdoor purposes.

### Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Double-parameter and equipped with pH electrode and DO electrode, can recognize electrode automatically.
- Auto recognition of standard pH buffers and there are three series of standard buffers for option: USA, NIST and China.
- Able to set pH measurement modes of high purity water and pure water with ammonia.
- DO mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously and equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- IP57 and equipped with calibration solution.

## Specifications

MODEL	P-521	
pH	Measuring range	(-2.00 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.02 pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temperature compensation	(0~100) °C (automatic)
mV	Measuring range	-1999.9mV~0~1999.9mV
	Resolution	1mV
	Accuracy	±0.1% FS
Conductivity	Measuring range	(0~20.00) mg/L(ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
	Accuracy	± 0.3%, ±0.40 mg/L
	Response time	≤30s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temperature compensation	(0~100) °C (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(66~200) kPa (manual)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Others	Data storage	150 groups
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V×2)
	Size & Weight	160×90×30mm/360g (instrument) 380×310×120mm/1.5kg (with packing)
Working conditions	Ambient temperature	(5~35) °C
	Ambient humidity	≤85%
	IP grade	IP57

## Standard Configuration

1. P-521 pH/DO meter	1 unit	2. pH electrode	1 pc
3. DO electrode	1 pc	4. Temperature electrode	1 pc
5. Standard pH buffer(pH4.0, pH6.86, pH9.18/50ml)			3 bottles
6. Membrane cap	3 pcs	7. Electrolyte	1 bottle
8. Backup AA battery	2 pcs	9. User manual	1 copy

# P-523 Portable Conductivity/DO Meter



Measure conductivity, TDS, salinity, resistivity, dissolved oxygen and temperature of water solutions and very cost effective.

## Main Features

- Large LCD screen with controllable white backlight.
- Humanized designs like rack and skid proof shell make it more convenient for users.
- Double-parameter and equipped with DO electrode and conductivity electrode, can recognize electrode automatically.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Auto recognition of 8 standard conductivity solutions, and there are two options for standard solutions: USA and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Conductivity mode has the function of non-linear temperature compensation for high purity water.
- Measurement mode of dissolved oxygen has the function of automatic temperature compensation, automatic salinity compensation and manual air pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously and equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- IP57 and equipped with calibration solution.

## Specifications

MODEL	P-523	
Conductivity	Measuring range	Conductivity: (0.00 ~19.99) $\mu\text{S/cm}$ (20.0 ~199.9) $\mu\text{S/cm}$ (200~1999) $\mu\text{S/cm}$ (2.00~19.99) $\text{mS/cm}$ (20.0~199.9) $\text{mS/cm}$ TDS: (0~100) $\text{g/L}$ Salinity: (0~100) ppt Resistivity: (0~100) $\text{M}\Omega\cdot\text{cm}$
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1 $\text{mS/cm}$
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.5\%$ FS
	Temperature compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Electrode constants	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0~20.00) $\text{mg/L(ppm)}$ , (0 ~ 200.0)%
	Resolution	0.1/0.01 $\text{mg/L(ppm)}$ , 1/0.1 %
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ $\text{mg/L}$
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ $\text{mg/L}$
	Temperature compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(66~200) $\text{kPa}$ (manual)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Others	Data storage	150 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power	Two AA batteries(1.5V $\times$ 2)
	Size & Weight	160 $\times$ 90 $\times$ 30mm/360g (instrument) 380 $\times$ 310 $\times$ 120mm/1.5kg (with packing)
Working Conditions	Ambient temperature	(5~35) $^{\circ}\text{C}$ (grade 0.01)
	Ambient humidity	$\leq 85\%$
	IP grade	IP57

## Standard Configuration

1. Conductivity electrode	1pc	2. P-523 Conductivity/DO meter	1unit
3. DO electrode	1pc	4. Temperature electrode	1pc
5. Operation manual	1copy	6. DO electrode electrolyte (30ml)	1bottle
7. Backup AA battery	2pcs	8. Membrane cap (for DO electrode use)	3pcs



# P-310 Pocket pH Meter

## Main Features

- Mini and ultra-thin design with size 180×50×20mm. 10mm diameter electrode can be used to test pH value in tubes.
- Automatic calibration, automatic switch off, low voltage alarm and electrode failure warning.
- IP57 waterproof and easy-to-read LCD screen, replaceable electrode.

## Specifications

Model	P-310
Measuring Range	-1.00~15.00 pH
Resolution	0.01pH
Accuracy	±0.2pH
Temperature Compensation	0 ~ 60 °C
Calibration	1, 2, 3 point
Power	CR2032 button battery
Battery Life	100 hours
IP Rating	IP57
Size & Weight	180×50×20mm/80g(pH Meter) 200×65×50mm/140g(Packing)

## Standard Configuration

- |   |        |
|---|--------|
| 1. P-310 pocket pH meter                          | 1 unit |
| 2. Backup button battery                          | 2 pcs  |
| 3. pH calibration buffers(pH4.00, pH6.86, pH9.18) | 3 bags |
| 4. Operating manual                               | 1 copy |



# P-311 Pocket Conductivity Meter

## Main Features

- Mini and ultra-thin design with size 180×50×20 mm.
- Automatic calibration, automatic switch off and low voltage alarm.
- IP57 waterproof and easy-to-read LCD screen, replaceable electrode.
- Used to test conductivity value of river water and waste water.



## Specifications

Model	P-311
Measuring Range	(0~10.00) mS/cm: (0~99.9) $\mu$ S/cm (100~999) $\mu$ S/cm (1.00~10.00) mS/cm
Resolution	0.1/1 $\mu$ S/cm, 0.01 mS/cm
Accuracy	$\pm$ 3%FS
Temperature Compensation	0 ~ 60 C
Calibration	1 point
Power	CR2032 button battery
Battery Life	100 hours
IP Rating	IP57
Size & Weight	180×50×20mm / 80g(Conductivity Meter) 200×65×50mm / 140g(Packing)

## Standard Configuration

- |                                    |        |
|------------------------------------|--------|
| 1. P-311 pocket conductivity meter | 1 unit |
| 2. Replaceable battery             | 2 pcs  |
| 3. Operating manual                | 1 copy |

# BT-4000S Turbidity Meter

## Main Features

- 7 inch high-resolution touch screen with friendly UI.
- The unique high-precision filter system makes the instrument more stable and accurate.
- Automatic blanking, measurement and direct reading of concentration.
- With built-in standard curve. Users can build curves according to different measurement requirements.
- Support up to 9-point calibration (new curve creation). Support calibration restoring function to restore factory calibration data.
- With large-capacity storage of storing 5000 sets of test data.
- Built-in thermal printer can print the data directly which is more convenient for the operators.



## Specifications

Measurement Method	90°scattering method
Applications	Drinking water, surface water, sewage
Measuring Range	0~500 NTU
Colorimetric Method	Tube Colorimetric
Accuracy	≤5%
Resolution	0.01 NTU
Detector	Imported Silicon Photodiode
Stray Light	<0.02 NTU
Display	7-inch high-resolution 1024* 600 touch screen
Output	USB (for data transfer)
Power	AC 220V/50Hz or AC 110V/60Hz
Ambient Temperature	(5-40)°C
Ambient Humidity	Relative humidity ≤ 85%(No condensation)
Dimensions/N.W.	460x380x200 mm/5kg
Shipping Size/G.W.	520x450x300mm/8kg
Standard Accessories	Sample bottle x2 pcs, Power cord, Manual

# PT-4000S Portable Turbidity Meter

## Main Features

- 4.3 inch color screen with friendly UI.
- Unique high-precision filter system makes the instrument more stable and accurate.
- Automatic blanking and measurement, direct reading of concentration.
- With built-in standard curve. Users can build curves according to different purposes.
- Support up to 9-point calibration (new curve creation). Support restoring factory calibration data.
- Can store 5000 sets of test data.
- Rechargeable battery can last for 10 hours. Auto power-off setting.
- IP67 waterproof and dustproof.



## Specifications

Measurement Method	90° scattering method
Applications	Drinking water, surface water, sewage
Measuring range	0.05~200 NTU
Colorimetric method	Tube colorimetric
Accuracy	≤8%
Resolution	≤10, 0.01 NTU; 10-100, 0.1 NTU; ≥100, 1 NTU
Detector	Imported Silicon photodiode
Stray Light	<0.02 NTU
Display	4.3-inch color screen
Output	Micro USB(Battery charging)
Power	Power adapter/Rechargeable lithium battery
Ambient Temperature	(5-40)°C
Ambient Humidity	Relative humidity ≤ 85% (No condensation)
Dimensions/N.W	100x210x70 mm/1kg
Shipping Size/G.W.	355x265x150mm/2kg
Standard Accessories	Sample bottle x2 pcs, Power adapter(Charger), Manual

# BC-4000S Benchtop Colorimeter



## Main Features

- 7 inch high-resolution touch screen with friendly UI.
- The unique high-precision filter system makes the instrument more stable and accurate.
- Direct reading of concentration.
- With built-in standard curve. Users can build curves according to different measurement requirements.
- Support up to 7-point calibration (new curve creation). Support calibration restoring function to restore factory calibration data.
- With large-capacity storage of 5000 sets of test data.
- Built-in thermal printer can print the data directly which is more convenient for operators.

## Specifications

Measurement Method	Platinum-Cobalt Colorimetry
Measuring Range	0-500PCU
Abs Range	-0.3~3A
Colorimetric Method	Tube Colorimetric
Accuracy	≤5%
Resolution	0.01 PCU
Detector	Imported Silicon Photodiode
Display	7-inch high-resolution 1024* 600 touch screen
Output	USB (for data transfer)
Power	AC 220V/50Hz or AC 110V/60Hz
Ambient Temperature	(5-40)°C
Ambient Humidity	Relative humidity ≤ 85%(No condensation)
Dimensions/N.W	460x380x200 mm/5kg
Shipping Size/G.W.	520x450x300mm/8kg
Standard Accessories	10mm glass cuvette x 4 pcs, 30mm glass cuvette x 2 pcs, Power cord, Manual

# PC-4000S Portable Colorimeter

## Main Features

- 3 inch color screen with friendly UI.
- The unique high-precision filter system makes the instrument more stable and accurate.
- Direct reading of concentration, automatic power-off.
- With built-in standard curve. Users can build curves according to different requirements.
- Support up to 7-point calibration (new curve creation). Support restoring factory calibration data.
- With large-capacity storage of 5000 sets of test data.
- Rechargeable battery can last for 10 hours. Auto power-off time can be set.



## Specifications

Measurement Method	Platinum-Cobalt Colorimetry
Measuring Range	0-500 PCU
Abs Range	-0.3~3A
Colorimetric Method	Tube Colorimetric
Accuracy	±5%
Resolution	0.01 PCU
Detector	Imported Silicon Photodiode
Display	3-inch color screen
Output	Micro USB(Battery charging)
Power	Power adapter/Rechargeable lithium battery
Waterproof Level	IP54
Ambient Temperature	(5-40)°C
Ambient Humidity	Relative humidity ≤ 85% (No condensation)
Dimensions/N.W.	100x210x70 mm/1kg
Shipping Size/G.W.	355x265x150mm/2kg
Standard Accessories	Sample bottle x5 pcs, Power adapter(Charger), Manual

# S-100 Intelligent Stirrer



For regular purposes in laboratory and outdoors, can be put in the incubators and used together with pH/Ion/DO meter.

## Specifications

Speed range	0~2300r/min (no load)
Maximum mixing capacity	1000ml
Working plate diameter	Φ100mm
Maximum working current	150mA
Maximum power consumption	0.9W
Power adapter	DC 12V power adapter
Dimensions & Weight	165x 125 x 65 mm/700g





## PEAK INSTRUMENTS

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16223 Park Row, Houston, TX-77084, USA.

E-mail: [info@peakii.com](mailto:info@peakii.com)

Website: [www.peakii.com](http://www.peakii.com)

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NO. 22 Lane 799 Guangfulin Road, Shanghai 201600, China.

Tel./Fax: +86 21 57708098

Email: [frank@peakii.com](mailto:frank@peakii.com)

Website: [www.peakii.com](http://www.peakii.com)