



Spectrophotometers

Variety & Reliability

PEAK Instruments Inc.

About Us

PEAK Instruments Inc. is located in Houston, TX-77084, where our warehouse and service center are also located, which is a high tech enterprise integrated with R&D, production, sales and service of spectrophotometers, which have wide applications in the following areas: metallurgy, pharmacy, food, health, institutes, biological chemistry, life science, petrochemical industry, quality control, environmental protection, etc..

We adopt the newest microcomputer technology and electronic control system, optimize optical system and structure which can both extend new functions and ensure the accuracy, sensitivity, stability and durability. We have all kinds of spectrophotometers like UV, visible, single beam, double beam, adjustable slit, xenon and big capacitive touch screen with high resolution(1024*600) and high sensitivity.

We have professional teams for management, R&D, production, QC, sales and technical support, which make sure to provide excellent products, good prices and efficient service for our global customers. We have obtained 46 patents and CE, ISO9001, ISO14001 certificates driven by innovation and joint efforts of all staff.



We continuously absorb new ideas, promote product quality and improve our service in accordance with the concept of Innovation, quality and service. We have steady growth and good reputation in the markets of more than 20 countries, like USA, Mexico, Argentina, India, Thailand, UAE, Turkey, South Africa and Russia.



- ◆ Our Promise
Answer customers and provide solutions within 24 hours.
- ◆ Our Mission
Provide high quality products and services.
- ◆ Our Vision
To be a well-known brand for analytical instruments.

PEAK Instruments Inc. looks forward to cooperating with you.

E-1000 Series



Introduction

- Smooth appearance design
- Ingenious color assortment
- Blue backlit LCD screen
- Oval buttons
- Easy parameter setting and microprocessor make the operation more convenient

Main Features

- 70*40 mm blue backlit LCD screen can show complete parameters like T,A,C,K.
- Calibrate 0%A and 100%T automatically.
- Large sample compartment can hold various cells from 5mm to 100mm and meet different test requirements.
- RS232 output port, optional printer and professional analysis software UV-PRO1.0 with the functions of quantitative analysis and dynamic measurement.
- Automatic lamp switches and manual wavelength setting.
- Save and read out the test data and values of K and B.

E-1000 Series



Specifications

MODEL	E-1000V	E-1000UV
Standard Accessories	Lamp, Cuvette Holder and 10mm Glass Cuvettes	Lamp, Cuvette Holder and 10mm Quartz Cuvettes
Display	70*40mm blue backlit LCD	
Wavelength Range	320 - 1020nm	190 - 1020nm
Slit Width	4nm	
Wavelength Accuracy	±2nm	
Wavelength Repeatability	≤1nm	
Photometric Accuracy	0.5%T	
Photometric Repeatability	0.2%T	
Stray Light	≤0.15%T@360nm	
Stability	0.002A@500nm	
Output Port	RS232	
Light Source	Tungsten Halogen Lamp	Tungsten Halogen/Deuterium Lamp
Power Requirements	110-220V, 50-60Hz	
Shipping Dimensions And Weight	530*460*320mm, 9 kg	

C-7000 Series



Introduction

Steady, modern and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

Main Features

- 7 inch TFT screen and long life, more comfortable and sensitive silicone buttons.
- Support USB storage and different data formats such as Excel, txt and photos(*.csv, *.qua, *.txt, *.bmp) . Users can output test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Strong extended capability: Standard 8GB memory can store huge test data and equipped with RS232, HOST USB port and standard USB interface.
- High-efficiency holographic grating of 1200 lines/mm and ultra-low stray light.
- The equipment has Long-life socket type tungsten-halogen and deuterium lamps which can work up to 2000 hours, can switch the lamps according to test needs and record its working time automatically. Socket type lamps make the replacement much easier.
- Excellent silicon photodiode can guarantee the equipment is highly sensitive and stable.
- Huge sample chamber and various accessories can meet all kinds of needs.
- Can be connected to printer directly and output test charts and data.
- Powerful PC software can realize scanning function.

C-7000 Series

Specifications

MODEL	C-7000V	C-7000UV
Standard Accessories	Lamp, Cuvette Holder and 10mm Glass Cuvettes	Lamp, Cuvette Holder and 10mm Quartz Cuvettes
Display	7-inch TFT screen	
Wavelength Range	320 - 1100nm	190 - 1100nm
Slit Width	2nm	2nm
Wavelength Accuracy	±0.3nm	±0.3nm
Wavelength Repeatability	≤0.2nm	
Photometric Accuracy	0.3%T (0-100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)	
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)	
Stray Light	≤0.05%T@220 nm, 360nm	
Stability	±0.001 A/h@500nm	
Baseline Flatness	±0.0015A	±0.001A
Noise	±0.0005A	
Working Mode	T,A,C,E	
Wavelength Setting	Automatic	
Photometric Range	0-200%T, -0.3 - 3A	
Detector	Solid Silicon Photodiode	
Software	Optional with scanning function	
Printer	Optional	
Keypad	Silicone Buttons	
Data Port	USB	
Light Source	Tungsten Halogen Lamp	Tungsten Halogen/Deuterium Lamp
Power Requirements	110-220V, 50-60Hz	
Humidity Range	Less than 85%	
Shipping Dimensions and Weight	770*630*340mm, 27kg	

C-7100/7200 Series



Introduction

Steady, modern and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

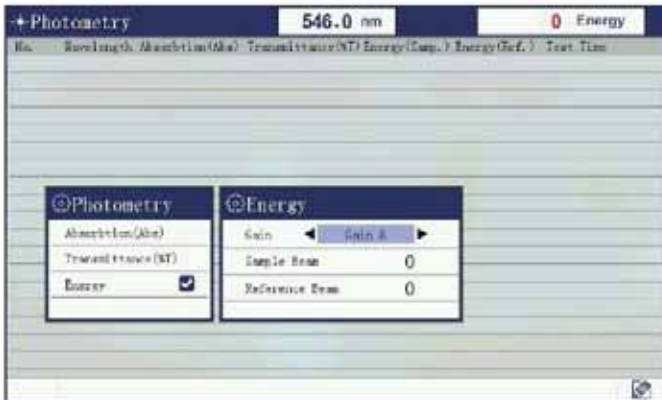
Main Features

- 7 inch TFT screen and long life, more comfortable and sensitive silicone buttons. The instrument can show various scanning curves and charts for users to complete various tests without computers.
- Support USB storage and different data formats such as Excel, txt and photos(*.csv, *.qua, *.txt, *.bmp) . Users can output test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Advanced hardware and 32-bit Cortex_M3 processor with the clock speed 120MHz. The equipment can store 5000 pieces of data and 500 curves.
- High-efficiency holographic grating of 1200 lines/mm and ultra-low stray light.
- The equipment has Long-life socket type tungsten-halogen and deuterium lamps which can work up to 2000 hours, can switch the lamps according to test needs and record its working time automatically. Socket type lamps make the replacement much easier.
- Excellent silicon photodiode can guarantee the equipment is highly sensitive and stable.
- Huge sample chamber and various accessories can meet all kinds of needs.
- Can be connected to printer directly and output test charts and data.
- Powerful PC software.
- Strong extended capability: Standard 8GB memory can store huge test data and equipped with RS232, HOST USB port and standard USB interface.

C-7100/7200 Series

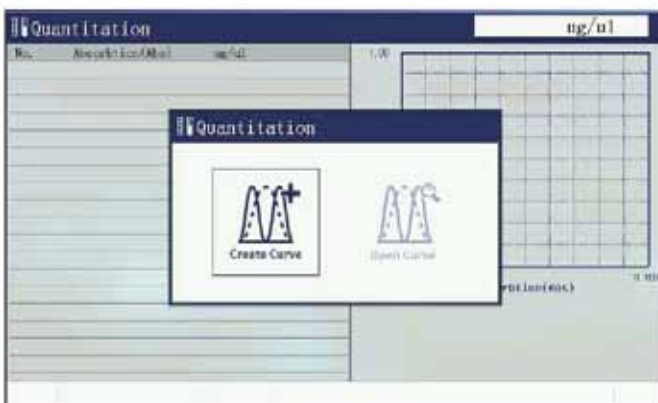
Specifications

MODEL	C-7100	C-7100S	C-7100A	C-7200	C-7200S	C-7200PC	C-7200A
Standard Accessories	Lamps, Cuvette Holder and 4 PCS of 10mm Glass Cuvette and 2 PCS of 10mm Quartz Cuvettes						
Display	7 inch TFT					No Screen	7 inch TFT
Keyboard Control	Silicone Buttons					No Buttons	Silicone Buttons
Optical System	Single Beam			Double Beam			
	Holographic grating, 1200 lines/mm						
Slit Width	2nm	1nm	0.5,1,2,4,5nm	2nm	1nm	2nm, 1nm	0.5,1,2,4,5nm
Wavelength Range	190 - 1100nm						
Wavelength Accuracy	±0.3nm						
Wavelength Repeatability	≤0.1nm						
Photometric Accuracy	0.2%T (0-100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)						
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A (0.5-1A)						
Stray Light	≤0.03%T@220nm, 360nm						
Stability	±0.001A/h@500nm						
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C(0-9999F)						
Baseline Flatness	±0.0015A (200-1000nm)						
Noise	0.0003A@500nm						
Working Mode	T,A,C,E						
Wavelength Setting	Automatic						
Scanning Speed	High, Medium and Low						
Detector	Solid Silicon Photodiode						
Light Source	Tungsten Halogen/Deuterium Lamp						
Data Output	RS232C Serial, USB Drive, USB HOST						
Processor	Cortex_M3, 120Mhz						
Power Requirements	AC 110-220V 50-60Hz						
Shipping Dimensions and Weight	770*630*340mm,						880*690*530mm,
	27kg	30kg		27kg			45kg



Absorbency and transmittance test

Photometry



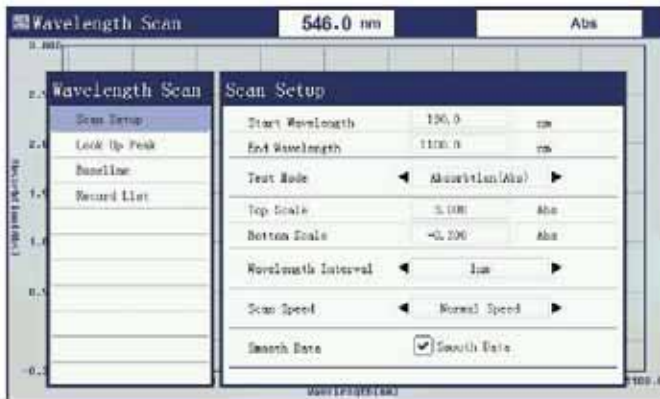
To test sample solution concentration, you can choose different methods like coefficient, standard curve, linearity, linear zero crossing and quadratic. Operators can choose single, double and tri-wavelength and change the coefficients of double and tri-wavelength. Advanced arithmetic makes curvilinear regression more precise and test data more accurate.

Quantitative Measurement



To test the sample chemical reaction process by fixed time scanning the sample solution with fixed wavelength. The equipment can calculate its changing rate after entering the corresponding parameters.

Kinetics Measurement(Time Scanning)



To test sample solution absorbency peak, can scan the sample characteristic curve of any wavelength range between 190 and 1100nm. And do the chart overlay and arithmetic.

Wavelength Scanning(Qualitative Test)



It is much more convenient for users to test the absorbency or do the arithmetic in case of several wavelengths for the same sample solution, which is much simpler than single wavelength testing.

Multi Wavelength Measurement



It is a special function for specific users and make the operation easier.

DNA/Protein Measurement

X-8200



Introduction

International advanced xenon light (Hamamatsu) source makes the instrument more stable and reliable. Three years warranty. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

Main Features

- 7 inch TFT screen and long life, more comfortable and sensitive silicone buttons or capacitive touch screen. The instrument can show various scanning curves and charts for users to complete various tests without computers.
- Support USB storage and different data formats such as Excel, txt and photos(*.csv, *.qua, *.txt, *.bmp) . Users can output test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Advanced hardware and 32-bit Cortex_M3 processor with the clock speed 120MHz. The equipment can store 5000 pieces of data and 500 curves.
- High-efficiency holographic grating of 1200 lines/mm and ultra-low stray light.
- The equipment has Long-life socket type xenon lamp which can work up to 5000 hours. Socket type lamp makes the replacement much easier.
- Excellent silicon photodiode can guarantee the equipment is highly sensitive and stable.
- Huge sample chamber and various accessories can meet all kinds of needs.
- Can be connected to printer directly and output test charts and data.
- Powerful PC software.
- Strong extended capability: Standard 8GB memory can store huge test data and equipped with RS232, HOST USB port and standard USB interface.

X-8200

Specifications

MODEL	X-8200	X-8200S	X-8200A	X-8200T	X-8200TS	X-8200TA
Standard Accessories	Lamps, Cuvette Holder and 4 PCS of 10mm Glass Cuvette and 2 PCS of 10mm Quartz Cuvettes					
Display	7 inch TFT			7 inch TFT		
Keyboard Control	Silicone Buttons			Touch Screen		
Optical System	Double Beam					
	Holographic grating, 1200 lines/mm					
Slit Width	2nm	1nm	0.5,1,2,4,5nm	2nm	1nm	0.5,1,2,4,5nm
Wavelength Range	190 - 1100nm					
Wavelength Accuracy	±1nm					
Wavelength Repeatability	≤0.5nm					
Photometric Accuracy	0.2%T (0-100%T) , ±0.002A(0-0.5A) , ±0.004A(0.5-1A)					
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A (0.5-1A)					
Stray Light	≤0.03%T@220nm, 360nm					
Stability	±0.001A/h@500nm					
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C (0-9999F)					
Baseline Flatness	±0.0015A (200-1000nm)					
Noise	0.0003A@500nm					
Working Mode	T,A,C,E					
Wavelength Setting	Automatic					
Scanning Speed	High, Medium and Low					
Detector	Solid Silicon Photodiode					
Light Source	Xenon Lamp					
Data Output	RS232C Serial, USB Drive, USB HOST					
Processor	Cortex_M3, 120Mhz					
Power Requirements	AC 110-220V 50-60Hz					
Shipping Dimensions and Weight	770*630*340mm		880*690*530mm,		770*630*340mm	
	27kg		45kg		27kg	
					880*690*530mm,	
					45kg	

Introduction

Excellent optical system, high level mechanical system, advanced circuit control system, rigorous production process, friendly and intuitive software interface, good technical specifications, stable and reliable performance can meet the analysis requirements from high level and professional customers.



Main Features

Appearance and internal structure

Modern and elegant appearance, extendable design, separate structure design for optical and circuit system can efficiently avoid the loss of photometric energy.

Convenient and intuitive operation interface

This series has 7-inch high resolution colored capacitive touch screen and newly developed UV-SUPER2.0 software with strong functions, which make the operation simple and easy.

Excellent performance and stability

Totally enclosed monochromator and optical mirror coated with SiO₂ guarantee the optical components are not influenced by gas and environment.

- ① Philips and Hamamatsu lamps.
- ② Newly improved screw pole drive structure makes good wavelength repeatability and high wavelength accuracy.
- ③ Totally new design, superior materials and rigorous production process.

Advanced photoelectric test system

- ① 32 bit ARM11 microcontroller with clock speed up to 533MHz.
- ② 20 bit analog digital device specialized for photoelectric data collection and processing from BB company.
- ③ Support internal huge data storage, mouse operation and big SD card memory.

Simple and convenient maintenance

- ① Socket type lamps make the optical adjustment not necessary and maintenance much easier.
- ② Separated Optical and circuit system has no cross influence and make the instrument more reliable.

T-9100/9200

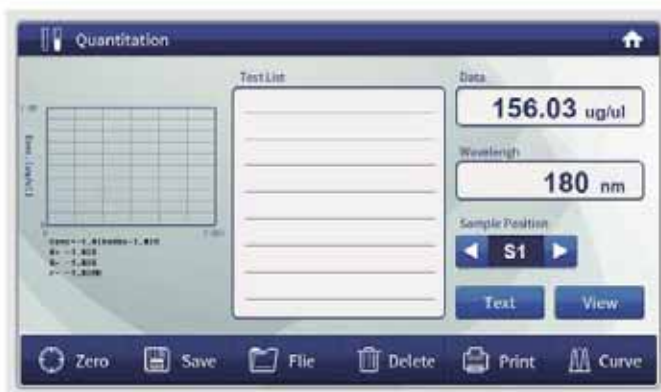
Specifications

MODEL	T-9100	T-9200	T-9200S	T-9200A
Standard Accessories	Lamps, Cuvette Holder and 4 PCS of 10mm Glass Cuvette and 2 PCS of 10mm Quartz Cuvettes			
Display	7 inch TFT colored capacitive touch screen			
Wavelength Range	190 - 1100nm			
Optical System	Single Beam	Double Beam		
Spectral Bandwidth	2nm	2nm	1nm	0.5,1,2,4,5nm
Wavelength Accuracy	±0.5nm	±0.5nm	±0.3nm	±0.3nm
Wavelength Repeatability	≤0.2nm	≤0.2nm	≤0.1nm	≤0.1nm
Photometric Accuracy	0.2%T (0-100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)			
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)			
Scanning Speed	High, Medium and Low			
Stray Light	≤0.05%T@220nm,360nm			
Baseline Flatness	±0.003A	±0.002A	±0.001A	±0.001A
Drift	0.003A/30min @500nm	0.002A/30min @500nm	0.001A/30min @500nm	0.001A/30min @500nm
Noise	0.0005A@500nm			
Working Mode	T,A,C,E			
Wavelength Setting	Automatic			
Detector	Solid Silicon Photodiode			
Light Source	Tungsten Halogen/Deuterium Lamp			
Output Port	USB HOST, USB DRIVE, RS232, SD Card			
Power Requirements	AC 110-220V 50-60Hz			
Humidity Range	Less Than 85%			
Shipping Dimensions and Weight	770*630*340mm, 27kg			880*690*530mm, 45kg



Photometry

Absorbency and transmittance test



Quantitative Measurement

To test sample solution concentration, you can choose different methods like coefficient, standard curve, linearity, linear zero crossing and quadratic. Operators can choose single, double and tri-wavelength and change the coefficients of double and tri-wavelength. Advanced arithmetic makes curvilinear regression more precise and test data more accurate.



Kinetics Measurement(Time Scanning)

To test the sample chemical reaction process by fixed time scanning the sample solution with fixed wavelength. The equipment can calculate its changing rate after entering the corresponding parameters.



To test sample solution absorbency peak, can scan the sample characteristic curve of any wavelength range between 190 and 1100nm. And do the chart overlay and arithmetic.

Wavelength Scanning(Qualitative Test)



It is much more convenient for users to test the absorbency or do the arithmetic in case of several wavelengths for the same sample solution, which is much simpler than single wavelength testing.

Multi Wavelength Measurement



It is a special function for specific users and make the operation easier.

DNA/Protein Measurement

Accessories



Manual 4-position cell holder (standard for single beam)



Single-hole cuvette holder (standard for double beam)



Automatic 8-position round cell holder



Automatic long optical path 5-position cell holder



Manual 4-position film holder



Single hole film holder



Single hole long optical path holder



Tube rack



Adjustable XY micro cell holder

Comparison Table

	UV/Vis.	Optical System	Display	Slit Width	Wavelength Accuracy	Wavelength Repeatability	Stray Light	Ligh Source	Page					
E-1000V	Vis.	Single	70*40mm LCD	4 nm	±2 nm	≤1 nm	≤0.15%T@360nm	Tungsten Halogen Lamp	1/2					
E-1000U	UV							Tungsten Halogen /Deuterium Lamp						
C-7000V	Vis.	Single	7 inch FTF	2 nm	±0.3 nm	≤0.1 nm	≤0.05%T @220nm,360nm	Tungsten Halogen Lamp	3/4					
C-7000UV	UV							Double		1 nm	0.5,1,2,4,5nm	Tungsten Halogen /Deuterium Lamp	≤0.03%T @220nm,360nm	5/8
C-7100														
C-7100S														
C-7100A				1 nm					0.5,1,2,4,5nm					
C-7200										1, 2nm				
C-7200S														
C-7200A														
C-7200PC														
X-8200	UV			Double				7 inch FTF	2 nm	±0.3 nm	≤0.1 nm	≤0.03%T @220nm,360nm	Xenon Lamp	9/10
X-8200S		1 nm												
X-8200A		0.5,1,2,4,5nm												
X-8200T		Touch Screen	2 nm											
X-8200TS			1 nm											
X-8200TA			0.5,1,2,4,5nm											
T-9100	UV	Single	Touch Screen	2 nm	±0.5 nm	≤0.2 nm	≤0.05%T @220nm,360nm	Tungsten Halogen /Deuterium Lamp	11/14					
T-9200		Double		1 nm						±0.3 nm	≤0.1 nm			
T-9200S														
T-9200A					0.5,1,2,4,5nm									

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Electrochemical & Water Quality Analyzer

Variety & Reliability

PEAK Instruments Inc.

About Us

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 spectrophotometers, pH/conductivity/DO/ion meter, electrode, balance colorimeter and turbidity meter, which have wide applications in the following areas: metallurgy, pharmacy, food, health, institutes, biological chemistry, life science, petrochemical industry, quality control, environmental protection, electro-chemistry and water quality analysis, etc..

We adopt the newest microcomputer technology and electronic control system, optimize optical system and structure which can both extend new functions and ensure the accuracy, sensitivity, stability and durability. We have full ranges of spectrophotometers like UV, visible, single beam, double beam, adjustable slit, xenon and big capacitive touch screen with high resolution (1024*600) and high sensitivity, and many kinds of electrochemical & water quality analyzers.

We have professional teams for management, R&D, production, QC, sales and technical support, which make sure to provide excellent products, good prices and efficient service for our global customers. Our factory has obtained 46 patents and CE, ISO9001, ISO14001 certificates driven by innovation and joint efforts of all staff.

We continuously absorb new ideas, promote product quality and improve our service in accordance with the concept of Innovation, quality and service. We have steady growth and good reputation in the markets of more than 30 countries, like USA, Canada, Mexico, Spain, Poland, Turkey, Russia, Argentina, Brazil, Chile, Peru, Ecuador, India, Indonesia, Pakistan, Korea, Saudi Arabia and South Africa.



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T-710 Series pH meter



Main Features

- 7 inch colored 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.
- Meet GLP norms, with 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 1000 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: Europe & USA series, NIST series and China series.
- With standard 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

Series pH meter

Specifications

MODEL	T-710L	T-710P	T-710H	
Description	General laboratory bench pH meter, suitable for measuring moderate ionic strength solutions, such as surface water, lake water and industrial 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, turbid liquid and colloidal solutions. It can be used in the high-precision pH measurements, such as scientific research, quality control, biotechnology, fine chemicals and acid-base titration.	
Display	7-inch capacitive touch screen with resolution 1024*600			
pH	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	0.1/0.01/0.001 pH
	Accuracy	±0.02 pH	±0.02 pH	±0.01pH
	Input current	≤1×10 ⁻¹² A	≤1×10 ⁻¹² A	≤1×10 ⁻¹² A
	Input impedance	≥1×10 ¹² Ω	≥1×10 ¹² Ω	≥1×10 ¹² Ω
	Stability	±0.01 pH/3h	±0.01 pH/3h	±0.01 pH/3h
	Temperature compensation	(0 ~ 100) °C (auto or manual)	(0 ~ 100) °C (auto or manual)	(0 ~ 100) °C (auto or manual)
mV	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV		
	Resolution	0.1mV		
	Accuracy	±0.03% FS		
Temperature	Range	-10 °C ~ 110 °C		
	Resolution	0.1 °C		
	Accuracy	±0.5 °C		
Calibration		Automatic (1, 2, 3 points) Europe & USA, NIST and China standards		
Others	Data storage	1000 sets		
	Power	DC12V/1A		
	Communication interface	USB(A), USB(B), Wireless Bluetooth module		
	Dimensions & Weigh	240×170×70mm/600g		
Working Conditions	Temperature	15 ~ 30 °C		
	Humidity	≤85%		
	IP grade	IP54		

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

T-711 Series Conductivity Meter



Main Features

- 7 inch colored high resolution(1024*600) capacitive touch screen, high sensitivity, complete parameter display, intuitive, easy to use and simple.
- Meter meets with the requirement of international GLP standards. Its features up to 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, instrument brightness, three shift resolution selectivity.
- Built-in mass storage can store 1000 sets of measurement data, data can be stored through USB storage & transfer data, stored data can be opened by the general office software EXCELL, more convenience for customers to edit.
- Automatically recognize 8 kinds of conductivity standard solution. User can choose anyone from two series of solutions: Europe & USA series and China series
- Instrument standard Bluetooth module, support wireless Bluetooth printing, convenient user operation. Optional support wireless Bluetooth to mobile phone computer data transmission
- Adopt advanced and original conductivity measurement technology, use 1 pc of conductivity electrode (K=1), it can meet measuring accuracy requirement for range within $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ by using only one-point calibration.
- Ability to switch among 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 , Its measurement result is fast and precise.
- Can intelligently judge the electrode status to ensure that the customer is accurate and applicable.
- Dustproof and waterproof meter meets IP54 standards.

T-711 Series Conductivity Meter

Specifications

MODEL	T-711L	T-711H	T-711P	T-711C
Description	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
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) mS/cm (20.0~200.0) mS/cm Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt		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) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt	
Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1 mS/cm			
Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.50\%$ FS	Electrode: $\pm 0.5\%$ FS Instrument: $\pm 1.00\%$ FS		
Temp compensation range	(0 ~ 50) $^{\circ}\text{C}$ (Automatic)			
Electrode constant	0.1/1/10 cm^{-1}			
Temp.Measuring range	-10 $^{\circ}\text{C}$ ~ 110 $^{\circ}\text{C}$			
Resolution	0.1 $^{\circ}\text{C}$			
Accuracy	5 ~ 60 $^{\circ}\text{C}$: $\pm 0.5^{\circ}\text{C}$ Others: $\pm 1.0^{\circ}\text{C}$	5 ~ 60 $^{\circ}\text{C}$: $\pm 0.3^{\circ}\text{C}$ Others: $\pm 0.5^{\circ}\text{C}$		
Data storage	1000 sets			
Storage content	Measurement series number, measuring value, temperature, ATC or MTC status, date and time			
Power	DC12V/1A			
Communication connectors	Wireless Bluetooth, USB			
Dimensions & Weight	240 × 170 × 70mm/600g			
Ambient temperature	5 ~ 35 $^{\circ}\text{C}$			
Ambient humidity	$\leq 80\%$			
IP grade	IP54			

Standard Configuration

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

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 colored capacitive screen with high resolution (1024*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Meet GLP norms, with 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 and resolution(-three options).
- Built-in big memory can store 1000 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 standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission via wireless Bluetooth.
- 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%
DO Saturation	0.0 ... 600%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(-10 ~ 110) °C
Temperature Resolution	0.1 °C
Temperature Accuracy	±0.1 °C
Temperature compensation range	(0 ~ 45) °C (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 °C, 90% response)
Data Storage	1000 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 x 170 x 70mm/600g

Standard Configuration

- | | |
|-------------------------------------|----------|
| 1. T-712 DO Meter | 1 unit |
| 2. Dissolved Oxygen 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 (30ml) | 1 bottle |
| 7. User manual | 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 colored capacitive screen with high resolution (1024*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Meet GLP norms, with 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 1000 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, pX, ORP, ion concentration and temperature
- Quick switch between different units: g/L, mol/L, ppm, pX.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: Europe & USA series and China series.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: Europe & USA series, NIST series and China series.
- Smart judge of electrode status to ensure accurate use for operators.
- With standard 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.

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.

T-713 Series Ion Concentration Meter

Description	Model	Applications
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-700NH	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

Instrument grade		0.001
Measurement Range	pH/pX	(-2.000 ~ 20.000) pH, (0.000 ~ 14.000) pX
	mV	(-1999.9 ~ 1999.9) mV
	concentration	(0 ~ 19990), optional units: pX, mol/L, g/L, ppm
	Temperature	(-10.0 ~ 110.0) °C
Resolution	pH/pX	0.001pH/pX
	mV	0.01mV
	Concentration	4 significant digits(expressed in scientific notation)
	temperature	0.1 °C
Accuracy	pH/pX	±0.002pH/pX
	mV	±0.03% FS
	Concentration	±0.3%
	temperature	±0.1 °C
Power Supply		12V/1A, with standard power adapter
Dimensions & Weight		240×170×70mm, 600g

Standard Configuration

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

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 colored capacitive screen with high resolution (1024*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Meet GLP norms, with 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 1000 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: Europe & USA series and China series.
- With standard 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 of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- 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: Europe & USA, NIST and China series.
- Smart judge of electrode status to ensure accurate use for operators.
- With standard Bluetooth module and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission via wireless Bluetooth.
- IP54 dustproof and waterproof housing.

T-720 Precise pH/Conductivity Meter

Specifications

MODEL	T-720	
pH	Measuring range	(-1.99 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	Electrode: ± 0.02
	Input current	$\leq 1 \times 10^{-12}$ A
	Input impedance	$\geq 1 \times 10^{12}$ Ω
	Stability	± 0.01 pH/3h
	Temp compensation	(0 ~ 100) °C (auto or manual)
mV	(mV/ORP/EH) Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.03\%$ FS
Conductivity	Measuring range	Conductivity: (0.00~20.00) μ S/cm (20.0~200.0) μ S/cm (200~2000) μ S/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0 ~ 100) M Ω ·cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 μ S/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: $\pm 0.5\%$ FS. Instrument: $\pm 0.80\%$ FS
	Temp. compensation range	(0 ~ 50) °C (auto)
	Electrode constant	0.1/0.5/1/5/10/50/100 cm^{-1}
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	1000 sets
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth,USB
	Dimensions&Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Standard Configuration

1.T-720 precise pH/conductivity meter	1 unit	5.Standard pH buffer solutions	
2.Plastic pH/ATC composite electrode	1 pc	(pH4.00, pH6.86, pH9.18/50mL/bottle)	3 bottles
3.Conductivity electrode	1 pc	6.12V power adapter for instrument	1 copy
4.Rotary electrode holder	1 pc	7.Brief operation manual	1 pc

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 colored capacitive screen with high resolution (1024*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Meet GLP norms, with 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 1000 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: Europe & USA series, NIST series and China series.
- With standard 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.

T-721 Precise pH/DO Meter

Specifications

MODEL	T-721	
pH	Measuring range	(-1.99~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	Electrode: ± 0.02 pH
	Input current	$\leq 1 \times 10^{-12}$ A
	Input impedance	$\geq 1 \times 10^{12}$ Ω
	Stability	± 0.01 pH
	Temp compensation	(0 ~ 100) C (auto or manual)
mV	(mV/ORP/EH)Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.05\%$ 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	Electrode: ± 0.10 mg/L, Instrument: ± 0.40 mg/L
	Response time	≤ 30 s (25 C, 90% response)
	Residual current	≤ 0.1 mg/L
	Temp compensation range	(0 ~ 45) 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	1000 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC state, measuring date and time
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth, USB
Working Conditions	Dimensions&Weight	240 × 170 × 70mm/600g
	Ambient temperature	5 ~ 35 C
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Standard Configuration

1. T-721 pH/ DO meter	1 unit	6. 12V power adapter(instrument use)	1 pc
2. Plastic pH/ATC composite electrode	1 pc	7. Membrane cap(for DO electrode)	3 pc
3. DO electrode	1 pc	8. DO electrode inner solution(30ml)	1 bottle
4. Rotary electrode holder	1 pc	9. Brief operation instruction	1 copy
5. standard buffer solution(pH4.00, pH6.86, pH9.18/50ml)	3 bottles		

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

- 7 inch colored capacitive screen with high resolution (1024*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Meet GLP norms, with 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), humanized design with adjustable screen brightness.
- Built-in big memory can store 1000 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: Europe & USA series and China series.
- 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.
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- With standard 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.

T-723 Precise Conductivity/DO Meter

Specifications

MODEL	T-723	
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) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10)
		Resistivity: (0 ~ 100) $\text{M}\Omega\text{-cm}$
		TDS: (0 ~ 100) g/L
		Salinity: (0 ~ 100) ppt
		Resolution
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp compensation	(0 ~ 50) $^{\circ}\text{C}$ (automatic)
	Electrode constant	0.1/1/10 cm^{-1}
Reference temperature	25 $^{\circ}\text{C}$, 20 $^{\circ}\text{C}$, 18 $^{\circ}\text{C}$	
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	Electrode: ± 0.10 mg/L , Instrument: ± 0.40 mg/L
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$, 90% response)
	Residual current	≤ 0.1 mg/L
	Temperature compensation	(0 ~ 45) $^{\circ}\text{C}$ (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	-10 $^{\circ}\text{C}$ ~ 110 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	5~ 60 $^{\circ}\text{C}$: ± 0.4 $^{\circ}\text{C}$ Others: ± 0.8 $^{\circ}\text{C}$
Other Parameters	Data storage	1000 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC status, date and time
	Power	DC12V/1A
	Communications	USB, wireless Bluetooth
	Dimensions & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	10 ~ 30 $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Standard Configuration

1. Benchtop conductivity/DO meter	1 unit	5. Membrane cap (for DO electrode)	3 pcs
2. Conductivity electrode	1 pc	6. DO electrode inner solution (30mL)	1 bottle
3. Rotary electrode holder	1 pc	7. 12V power adapter (for instrument)	1 pc
4. Dissolved Oxygen Electrode	1 pc	8. Brief operating manual	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, and also widely used in areas of education and scientific research.

Main Features

- 7 inch colored capacitive screen with high resolution (1024*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data.
- Meet GLP norms, with 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 1000 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: Europe & USA series and China series.
- 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.
- 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: Europe & USA series, NIST series, CHINA series.
- With standard 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.

T-730 pH/mV/Conductivity/DO Meter

Specifications

MODEL	T-730	
pH	Measuring range	(-1.99 ~ 19.99) pH
	Resolution	0.1/0.01 pH
	Accuracy	Electrode: ± 0.02 pH
	Input current	$\leq 1 \times 10^{-12}$ A
	Input impedance	$\geq 1 \times 10^{12}$ Ω
	Stability	± 0.01 pH/3h
	Temp compensation	(0 ~ 100) $^{\circ}$ C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.03\%$ FS
Conductivity	Measuring range	Conductivity (0.00~20.00) μ S/cm (20.0~200.0) μ S/cm (200~2000) μ S/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10)
		Resistivity: (0 ~ 100) M Ω -cm
		TDS: (0 ~ 100) g/L
		Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 μ S/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instruments: $\pm 0.80\%$ FS
	Temp compensation	(0 ~ 50) $^{\circ}$ C (automatic)
	Electrode constants	0.1/1/10 cm^2
	Reference temperature	25 $^{\circ}$ C, 20 $^{\circ}$ C, 18 $^{\circ}$ C
	Measuring range	(0 ~ 20.00) mg/L(ppm) (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1 %
	Accuracy	Electrode: ± 0.10 mg/L, Instrument: ± 0.40 mg/L
	Dissolved Oxygen	Response time
Residual current		≤ 0.1 mg/L
Temp compensation		(0 ~ 45) $^{\circ}$ 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 $^{\circ}$ C ~ 110 $^{\circ}$ C
	Resolution	0.1 $^{\circ}$ C
	Accuracy	5~ 60 $^{\circ}$ C: ± 0.4 $^{\circ}$ C Others: ± 0.8 $^{\circ}$ C
Other Parameters	Data storage	1000 groups
	Storage contents	Measuring value series number, measuring value, temperature, ATC or MTC state, measuring date and time.
	Power requirements	DC12V/1A
	Communications	USB, Wireless Bluetooth
	Dimensions & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 $^{\circ}$ C (grade 0.01)
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Standard Configuration

1. T-730 pH/mV/Conductivity/DO meter	1 unit	6. 12V power adapter (for instrument)	1 pc
2. 360° Rotary electrode holder	1 pc	7. Membrane cap (for DO electrode)	3 pcs
3. Plastic pH/ATC composite electrode	1 pc	8. DO electrode inner solution (30ml)	1 bottle
3. Conductivity electrode	1 pc	9. Brief operation manual	1 copy
4. DO electrode	1 bottle/each		
5. Standard pH buffer solutions(pH4.00, pH6.86, pH9.18/50ml)			

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.
- Meet GLP norms, with 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 500 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: Europe & USA series, NIST series and China series.
- With standard 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 waterproof and dustproof

S-610 Series Benchtop pH Meter

Specifications

MODEL	S-610H	S-610L	S-610P
Display	6.5 inch LED screen	6.5 inch LED screen	6.5 inch LED 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	0.001/0.01/0.1 pH	0.01/0.1 pH	0.01/0.1 pH
pH Accuracy	±0.002pH	±0.02pH	±0.02pH
Input current	≤2×10 ⁻¹² A	≤2×10 ⁻¹² A	≤2×10 ⁻¹² A
Input impedance	≥1×10 ¹² Ω	≥1×10 ¹² Ω	≥1×10 ¹² 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 °C	0 ~ 100 °C	0 ~ 100 °C
Temp Resolution	0.1 °C	0.1 °C	0.1 °C
Temp Accuracy	±0.5 °C	±0.5 °C	±0.5 °C
Temp Compensation	0-100 °C, automatic	0-100 °C, automatic	0-100 °C, automatic
Calibration	3 point, automatic	3 point, automatic	3 point, automatic
GLP standard	YES	YES	YES
Buffers	NIST. Europe/USA/NIST Auto recognition of 5 kinds of buffers	NIST. Europe/USA/NIST Auto recognition of 5 kinds of buffers	NIST. Europe/USA/NIST Auto recognition of 5 kinds of buffers
Data storage	500 sets	500 sets	500 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(for instrument) | 1 pc |
| 6. Brief operating manual | 1 copy |

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.
- Meet GLP norms, with 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 500 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: Europe & USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- With standard 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

S-611 Series Benchtop Conductivity Meter

Specifications

MODEL	S-611H	S-611L	S-611P	S-611C
Display	6.5 inch LED screen	6.5 inch LED screen	6.5 inch LED screen	6.5 inch LED screen
Parameters	conductivity, Resistivity, TDS, salinity, temperature	conductivity, Resistivity, TDS, salinity, temperature	conductivity, Resistivity, TDS, salinity, temperature	conductivity, Resistivity, TDS, salinity, temperature
measuring range	(0.00~20.00) $\mu\text{S/cm}$	(0.00~20.00) $\mu\text{S/cm}$	(0.00~20.00) $\mu\text{S/cm}$	(0.00~20.00) $\mu\text{S/cm}$
	(20.0~200.0) $\mu\text{S/cm}$	(20.0~200.0) $\mu\text{S/cm}$	(20.0~200.0) $\mu\text{S/cm}$	(20.0~200.0) $\mu\text{S/cm}$
	(200~2000) $\mu\text{S/cm}$	(200~2000) $\mu\text{S/cm}$	(200~2000) $\mu\text{S/cm}$	(200~2000) $\mu\text{S/cm}$
	(2.00~20.00) mS/cm	(2.00~20.00) mS/cm	(2.00~20.00) mS/cm	(2.00~20.00) mS/cm
	(20.0~200.0) mS/cm	(20.0~200.0) mS/cm	(20.0~200.0) mS/cm	(20.0~200.0) mS/cm
	(200~2000) mS/cm (K=10)		(200~2000) mS/cm (K=10)	(200~2000) mS/cm (K=10)
Conductivity resolution	0.01/0.1/1 $\mu\text{S/cm}$	0.01/0.1/1 $\mu\text{S/cm}$	0.01/0.1/1 $\mu\text{S/cm}$	0.01/0.1/1 $\mu\text{S/cm}$
	0.01/0.1/1 mS/cm	0.01/0.1 mS/cm	0.01/0.1/1 mS/cm	0.01/0.1/1 mS/cm
Conductivity Accuracy	Electrode: $\pm 0.5\% \text{FS}$	Electrode: $\pm 1.0\% \text{FS}$	Electrode: $\pm 0.5\% \text{FS}$	Electrode: $\pm 0.5\% \text{FS}$
	Instrument: $\pm 0.8\% \text{FS}$	Instrument: $\pm 1.50\% \text{FS}$	Instrument: $\pm 0.8\% \text{FS}$	Instrument: $\pm 0.8\% \text{FS}$
Resistivity measuring range	0.01 ... 100.00 $\text{M}\Omega \cdot \text{cm}$	0 ~ 100 $\text{M}\Omega \cdot \text{cm}$	0.01 ... 100.00 $\text{M}\Omega \cdot \text{cm}$	0.01 ... 100.00 $\text{M}\Omega \cdot \text{cm}$
TDS	0~100g/L	0~100 g/L	0~100g/L	0~100g/L
Salinity	0~100 ppt	0~100 ppt	0~100 ppt	0~100 ppt
Temp measuring range	(0~100) $^{\circ}\text{C}$	(0~100) $^{\circ}\text{C}$	(0~100) $^{\circ}\text{C}$	(0~100) $^{\circ}\text{C}$
Temp resolution	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$
Temp accuracy	± 0.5 $^{\circ}\text{C}$	± 0.5 $^{\circ}\text{C}$	± 0.5 $^{\circ}\text{C}$	± 0.5 $^{\circ}\text{C}$
Data storage	500 sets	300 sets	500 sets	500 sets
Communication interfaces	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth
Working conditions	Temperature: 5-40 $^{\circ}$	Temperature: 5-40 $^{\circ}$	Temperature: 5-40 $^{\circ}$	Temperature: 5-40 $^{\circ}$
	Humidity: 5-85%	Humidity: 5-85%	Humidity: 5-85%	Humidity: 5-85%
Power	12V/1A	12V/1A	12V/1A	12V/1A
Size & Weight	240 × 170 × 70mm/600g	240 × 170 × 70mm/600g	240 × 170 × 70mm/600g	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(for instrument) | 1 pc |
| 5. Brief operating manual | 1 copy |

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.
- Meet GLP norms, with 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 500 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.
- With standard 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

S-612 Benchtop Dissolved Oxygen Meter

Specifications

MODEL	S-612
Display	6.5 inch LED 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	0.0~600%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(0~100)°C
Temperature Resolution	0.1°C
Temperature Accuracy	±0.1°C
Temperature Compensation	(0~45)°C (automatic)
Salinity Compensation	(0.0~50.0) g/L
Pressure Compensation	(80~105) kPa (automatic)
Pressure Resolution	1
Pressure Accuracy	±2%
Stability	(±0.07mg/L)/1h
Response Time	≤30s (25°C, 90% response)
Data Storage	500 sets, external USB storage
Communication Interfaces	USB, Bluetooth
Working Conditions	Temperature: 5-40°
	Humidity: 5-85%
Power	12V1A (with standard AC adapter)
Dimensions &Weight	240 x 170 x 70mm/600g

Standard Configuration

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

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

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.
- Meet GLP norms, with 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 500 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, pX, ORP, ion concentration and temperature
- Quick switch between different units: g/L, mol/L, pX,ppm.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: Europe & USA series, NIST series and China series.
- With standard 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 waterproof and dustproof

Description	Model	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.

S-613 Series Ion Concentration Meter

Description	Model	Applications
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

Instrument grade		0.001
Measurement Range	pH/pX	(-2.000 ~ 18.000) pH, (0.000 ~ 14.000) pX
	mV	(-1999.9 ~ 1999.9) mV
	concentration	(0 ~ 19990), optional units: pX, mol/L, g/L, ppm
	Temperature	(0 ~ 100.0) °C
Resolution	pH/pX	0.01pH/pX
	mV	0.1mV
	Concentration	4 significant digits(expressed in scientific notation)
	temperature	0.1 °C
Accuracy	pH/pX	±0.02pH/pX
	mV	±0.1%FS
	Concentration	±0.5%
	temperature	±0.1 °C
Power Supply		DC 12V/1A, with standard power adapter
Dimensions & Weight		240×170×70mm,600g

Standard Configuration

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

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.
- Meet GLP norms, with 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 500 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: Europe & USA series, NIST series and China series.
- With standard 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.
- Auto recognition of eight kinds of standard conductivity solution and there are two series of standard solution for option: Europe & USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- 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

S-620 Precise pH/Conductivity Meter

Specifications

MODEL	S-620	
pH	Measuring range	(-2.00 ~ 18.00) pH
	Resolution	0.1/0.01 pH
	Accuracy	Electrode: ± 0.02
	Input current	$\leq 2 \times 10^{-12}$ A
	Input impedance	$\geq 1 \times 10^{12}$ Ω
	Stability	± 0.02 pH/3h
	Temperature compensation	(0 ~ 100) C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.03\%$ FS
Conductivity	Measuring range	Conductivity: (0.00~20.00) μ S/cm (20.0~200.0) μ S/cm (200~2000) μ S/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0 ~ 100) M Ω ·cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 μ S/cm 0.01/0.1/1 mS/cm
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp. compensation range	(0 ~ 50) C (auto)
	Electrode constant	0.1/1/10 cm^{-1}
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	500 sets
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth,USB
	Dimensions&Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 C
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Standard Configuration

- | | | | |
|----------------------------|--------|--------------------------------------|--------|
| 1. S-620 Benchtop meter | 1 unit | 5. Conductivity electrode | 1 pc |
| 2. Composite pH electrode | 1 pc | 6. 12V power adapter(for instrument) | 1 pc |
| 3. Rotary electrode holder | 1 pc | 7. Brief operating 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.
- Meet GLP norms, with 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 500 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: Europe & 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.
- With standard 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 waterproof and dustproof

S-621 Precise pH/DO Meter

Specifications

MODEL	S-621	
pH	Measuring range	(-2.00 ~ 18.00) pH
	Resolution	0.1/0.01 pH
	Accuracy	Electrode: ± 0.02
	Input current	$\leq 2 \times 10^{-12}$ A
	Input impedance	$\geq 1 \times 10^{12}$ Ω
	Stability	± 0.02 pH/3h
	Temperature compensation	(0 ~ 100) $^{\circ}$ C (auto or manual)
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.05\%$ 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	Electrode: ± 0.10 mg/L, Instrument: ± 0.40 mg/L
	Response time	≤ 30 s (25 $^{\circ}$ C, 90% response)
	Residual current	≤ 0.1 mg/L
	Temp compensation range	(0 ~ 45) $^{\circ}$ C (automatic)
	Salinity compensation range	(0 ~ 45) ppt (automatic)
	Air pressure compensation	(80 ~ 105) kPa (automatic)
	Electrode type	Polarographic
Temperature	Measuring range	0 $^{\circ}$ C ~ 100 $^{\circ}$ C
	Resolution	0.1 $^{\circ}$ C
	Accuracy	5~ 60 $^{\circ}$ C: ± 0.4 $^{\circ}$ C Others: ± 0.8 $^{\circ}$ C
Other Technical Parameters	Data storage	500 groups
	Power requirements	DC12V/1A
	Communication connectors	Bluetooth, USB
	Dimensions&Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5 ~ 35 $^{\circ}$ C
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Standard Configuration

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

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.
- Meet GLP norms, with 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 500 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: Europe & USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- 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.
- With standard 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

S-623 Precise Conductivity/DO Meter

Specifications

MODEL	S-623	
Conductivity	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) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10)
		Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$
		TDS: (0 ~ 100) g/L
		Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1/1 mS/cm
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp compensation	(0 ~ 50) $^{\circ}\text{C}$ (automatic)
	Electrode constant	0.1/1/10 cm^{-1}
Reference temperature	25 $^{\circ}\text{C}$, 20 $^{\circ}\text{C}$, 18 $^{\circ}\text{C}$	
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	Electrode: ± 0.10 mg/L , Instrument: ± 0.40 mg/L
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$, 90% response)
	Residual current	≤ 0.1 mg/L
	Temperature compensation	(0 ~ 45) $^{\circ}\text{C}$ (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 $^{\circ}\text{C}$: ± 0.4 $^{\circ}\text{C}$ Others: ± 0.8 $^{\circ}\text{C}$
Other Parameters	Data storage	500 groups
	Power	DC12V/1A
	Communications	USB, wireless Bluetooth
	Dimensions & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	10 ~ 30 $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Standard Configuration

1. S-623 conductivity/DO meter	1 unit	5. Membrane cap (for DO electrode)	3 pcs
2. Conductivity electrode	1 pc	6. DO electrode inner solution (30mL)	1 bottle
3. Rotary electrode holder	1 pc	7. 12V power adapter (for instrument)	1 pc
4. Dissolved Oxygen Electrode	1 pc	8. Brief operating manual	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.
- Meet GLP norms, with 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 500 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: Europe & 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: Europe & USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- 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.
- With standard 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 waterproof and dustproof.

Specifications

MODEL	S-630		
pH	Measuring range	(-2.00 ~ 18.00) pH	
	Resolution	0.1/0.01 pH	
	Accuracy	Electrode: ± 0.01 pH, Instrument: ± 0.02 pH	
	Input current	$\leq 2 \times 10^{-12}$ A	
	Input impedance	$\geq 1 \times 10^{12}$ Ω	
	Stability	± 0.02 pH/3h	
	Temp compensation	(0 ~ 100) °C (auto or manual)	
mV	Measuring range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV	
	Resolution	0.1mV	
	Accuracy	$\pm 0.03\%$ FS	
Conductivity	Measuring range	Conductivity (0.00~20.00) μ S/cm (20.0~200.0) μ S/cm (200~2000) μ S/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10)	
		Resistivity: (0 ~ 100) M Ω ·cm	
		TDS: (0 ~ 100) g/L	
		Salinity: (0 ~ 100) ppt	
		Resolution	0.01/0.1/1 μ S/cm 0.01/0.1/1 mS/cm
		Accuracy	Electrode: $\pm 0.5\%$ FS, Instruments: $\pm 0.80\%$ FS
	Temp compensation	(0 ~ 50) °C (automatic)	
	Electrode constants	0.1/1/10 cm ²	
	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		Electrode: ± 0.10 mg/L, Instrument: ± 0.40 mg/L	
Response time		≤ 30 s (25 °C, 90%response)	
Residual current		≤ 0.1 mg/L	
Temp compensation		(0 ~ 45) °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 °C ~ 100 °C	
	Resolution	0.1 °C	
	Accuracy	5~ 60 °C: ± 0.4 °C Others: ± 0.8 °C	
Other Parameters	Data storage	500 groups	
	Power requirements	DC12V/1A	
	Communications	USB, Wireless Bluetooth	
	Dimensions & Weight	240 × 170 × 70mm/600g	
Working Conditions	Ambient temperature	5 ~ 35 °C (grade 0.01) 15 ~ 30 °C (grade 0.001)	
	Ambient humidity	$\leq 85\%$	
	IP grade	IP54	

Standard Configuration

1. S-630 benchtop multi-parameter analyzer	1 unit	6. Dissolved Oxygen Electrode	1 pc
2. Composite pH electrode	1 pc	7. Membrane cap(for DO electrode)	3 pcs
3. Rotary electrode holder	1 pc	8. DO electrode inner solution(30mL)	1 bottle
4. pH calibration buffer	1 set	9. 12V power adapter(for instrument)	1 pc
5. Conductivity electrode	1 pc	10. Brief operating manual	1 copy



Main Features

- 5 inch LCD screen with wide 150° viewing angle, beautiful and compact design.
- Compact bench and wall 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.
- Extendibility: different electrodes can be installed to test pH, conductivity and dissolved oxygen.
- Auto recognition of different electrodes which can automatically store and retrieve calibration data with built-in chip after electrode is connected.
- 3.5 mm jack input for electrodes makes it very easy for electrode connection.
- Two USB interfaces for PC connection, power and data transfer.
- Can store 300 data logs including readings, GLP data, 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	Electrode: ±0.02 pH
	Input current	≤2×10 ⁻¹² A
	Input impedance	≥1×10 ¹² Ω
	Stability	±0.02 pH/3h
	Temperature compensation	(0 ~ 100) °C (auto or manual)
mV	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	0.1mV
	Accuracy	±0.03% FS
Temperature	Range	0 °C ~ 100 °C
	Resolution	0.1 °C
	Accuracy	±0.5 °C
Calibration	1, 2, 3, point	
Other Parameters	Data storage	300 sets
	Power	DC 5V/1A
	Communication interfaces	Micro USB and standard USB
	Dimensions & Weight	190*130*10mm/300g
Working Conditions	Temperature	(5 ~ 35) °C
	Humidity	≤85%
	IP grade	IP54

L-511 Tablet Conductivity Meter



MODEL	L-511	
Conductivity	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) mS/cm (20.0 ~ 200.0) mS/cm Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1 mS/cm
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.50\%$ FS
	Temp compensation range	(0 ~ 50) $^{\circ}\text{C}$ (Automatic)
	Electrode constant	0.1/1/10 cm^{-1}
Temperature	Measuring range	0 ~ 100 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	± 0.5 $^{\circ}\text{C}$
Other technical parameters	Data storage	300 sets
	Power	DC 5V/1A
	Communication connectors	Micro USB and standard USB
	Dimensions & Weight	190*130*10mm/300g
Working conditions	Ambient temperature	(5 ~ 35) $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

Main Features

- 5 inch LCD screen with wide 150° viewing angle, beautiful and compact design.
- Compact bench and wall 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.
- Extendibility: different electrodes can be installed to test pH, conductivity and dissolved oxygen.
- Auto recognition of different electrodes which can automatically store and retrieve calibration data with built-in chip after electrode is connected.
- 3.5 mm jack input for electrodes makes it very easy for electrode connection.
- Two USB interfaces for PC connection, power and data transfer.
- Can store 300 data logs including readings, GLP data, date and time.
- Rechargeable and long lasting battery. Auto shut off if there is no operation in ten minutes.

Specifications

MODEL	L-512
Display	5-inch LCD screen
Parameters	Concentration, saturation, temperature
DO Range	0.00 ~ 20 mg/L (ppm)
Resolution	0.01/0.1
DO Accuracy	±0.3%
DO Saturation	0.0 ~ 600%
Saturation Resolution	0.1%
Saturation Accuracy	±2.0%FS
Temperature Measuring Range	(0 ~ 100) °C
Temperature Resolution	0.1 °C
Temperature Accuracy	5 ~ 60 °C: ±0.5 °C, Others: ±1.0 °C
Temperature compensation range	(0 ~ 50) °C (automatic)
Salinity compensation range	(0.0 ~ 50.0)g/L
Air pressure compensation range	(80 ~ 105) kPa (automatic)
Pressure resolution	1
Pressure Accuracy	±2%
Stability	(±0.07mg/L)/1h
Response time	≤30s (25 °C, 90% response)
Data Storage	300 data logs, external USB storage
Communication Interfaces	Micro USB and standard USB
Working Conditions	Temperature:5 ~ 40° Humidity: 5 ~ 85%
Power Requirements	DC 5V/1A
Size &Weight	190*130*10mm/300g



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 13 standard pH buffers and there are three kinds of standard buffers for option: Europe & 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 solution and carrying case for outdoor purpose
- IP57 waterproof housing

Specifications

MODEL	P-510	
Display	Large LCD screen with controllable white backlight	
pH	Measurement range	(-2.00 ~ 19.99)pH
	Resolution	0.1/0.01 pH
	Accuracy	Electrode: ± 0.01 pH, Instrument: ± 0.02 pH
	Input current	$\leq 2 \times 10^{-12}$ A
	Input impedance	$\geq 1 \times 10^{12}$ Ω
	Stability	± 0.01 pH/3h
	Temp compensation	(0 ~ 100) °C (auto or manual)
mV	Measurement range(mV/ORP/EH)	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	$\pm 0.1\%$ FS
Other Parameters	Data storage	200 sets
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160*90*30mm/360g (instrument) 480*300*60mm/1kg (with packing)
Working Conditions	Environment Temperature	(5 ~ 35) °C (grade 0.01)
	Environment Humidity	$\leq 85\%$
	IP grade	IP57

Standard Configuration

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



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 buffers and there are three series of standard buffers for option: Europe & USA series, China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- 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	
Display	Large LCD screen with controllable white backlight	
Conductivity	Measurement 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) mS/cm (20.0~199.9) mS/cm TDS: (0 ~ 100) g/L Salinity: (0~100) ppt Resistivity: (0 ~ 100) $\text{M}\Omega \cdot \text{cm}$
	Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1 mS/cm
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.5\%$ FS
	Temperature compensation	(0~50) $^{\circ}\text{C}$ (automatic)
	Electrode constants	0.1/1/10 cm^{-1}
	Reference temperature	25 $^{\circ}\text{C}$, 20 $^{\circ}\text{C}$, 18 $^{\circ}\text{C}$
Other Parameters	Data storage	200 sets
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	160*90*30mm/360g (instrument) 480*300*60mm/1kg (with packing)
Working Conditions	Environment Temperature	(5 ~ 35) $^{\circ}\text{C}$ (grade 0.01)
	Environment Humidity	$\leq 85\%$
	IP grade	IP57

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 |



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	Electrode: ± 0.10 mg/L, Instrument: ± 0.40 mg/L
	Response time	≤ 30 s (25 °C, 90% response)
	Residual current	≤ 0.1 mg/L
	Temperature compensation	(0 ~ 45) °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
Other Parameters	Data storage	200 groups
	Storage contents	Series number, measuring value, measuring unit and temperature
	Power	Two AA batteries(1.5V)
	Size & Weight	65×120×31mm/180g (instrument) 255×210×50mm/790g (with carrying case)
Working Conditions	Environment Temperature	(5 ~ 35) °C (grade 0.01)
	Environment Humidity	$\leq 85\%$
	IP grade	IP57

Standard Configuration

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

P-513 Series Portable Ion Meter



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

Main Features

- Big LCD screen with controllable white backlit.
- Built-in microprocessor chip with functions of auto calibration, auto temperature compensation, data storage, function setup, self-diagnosis, auto power off, low voltage display.
- Can test electric potential, pH, pX, ORP, ion concentration and temperature
- Auto recognition of 13 standard pH buffers and there are three kinds of standard buffers for option: Europe & 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 solution and carrying case for outdoor purpose
- IP57 waterproof housing

Description	Model	Applications
Fluoride ion meter	P-513F	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	P-513Na	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.

P-513 Series Portable Ion Meter

Description	Model	Applications
Chloride ion meter	P-513Cl	Measure chloride ion and pH value in drinking water, food and sewage.
Calcium ion meter	P-513Ca	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	P-513Br	Test bromide ion and pH value in drinking water, food and sewage.
Nitrate ion meter	P-513NO	Test nitrate ion and pH value in drinking water, food and sewage.
Potassium ion meter	P-513K	Measure potassium ion and pH value in drinking water, food and sewage.
Ammonia Ion Meter	P-513NH	Test ammonia & nitrogen and pH value in drinking water, food and sewage.
Copper ion meter	P-513Cu	Test copper ion and pH value in food, beverage, electroplating industry and sewage.
Iodide ion meter	P-513I	Test iodide ion and pH value in drinking water, food and sewage.

Specifications

Instrument grade		0.001
Measurement Range	pH/pX	(-2.00 ~ 18.00) pH, (0.00 ~ 14.00) pX
	mV	(-1999.9 ~ 1999.9) mV
	concentration	(0 ~ 19990), optional units: pX, mol/L, g/L, ppm
	Temperature	(0 ~ 100.0) °C
Resolution	pH/pX	0.01pH/pX
	mV	0.1mV
	Concentration	4 significant digits(expressed in scientific notation)
	temperature	0.1 °C
Accuracy	pH/pX	±0.02pH/pX
	mV	±0.1%FS
	Concentration	±0.5%
	temperature	±0.1 °C
Power Supply		two batteries(1.5V*2)
Dimensions & Weight		165 x 90 x 32mm, 0.31KG

Standard Configuration

- | | |
|----------------------------|--------|
| 1. Ion concentration meter | 1 unit |
| 2. Ion electrode | 1 pc |
| 3. Reference electrode | 1 pc |
| 4. Temperature electrode | 1 pc |
| 5. Backup AA battery | 2 pcs |
| 6. User manual | 1 copy |



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 13 standard pH buffers and there are three series of standard buffers for option: Europe & 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 three series of standard buffers for option: Europe & USA series, China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- 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	Electrode: ± 0.01 pH, Instrument: ± 0.02 pH
	Input current	$\leq 2 \times 10^{-12}$ A
	Input impedance	$\geq 1 \times 10^{12}$ Ω
	Stability	± 0.01 pH/3h
	Temperature compensation	(0 ~ 100) °C (automatic)
mV	Measuring range	-1999.9mV ~ 0 ~ 1999.9mV
	Resolution	1mV
	Accuracy	$\pm 0.1\%$ FS
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) mS/cm (20.0 ~ 199.9) mS/cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt Resistivity: (0 ~ 100) M Ω ·cm
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$, 0.01/0.1 mS/cm
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.5\%$ FS
	Temp. compensation range	(0 ~ 50) °C (automatic)
	Electrode constant	0.1/1/10 cm^{-1}
	Reference temperature	25 °C, 20 °C, 18 °C
Other	Data storage	200 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power requirements	Two AA batteries(1.5V×2)
	Dimensions&Weight	65×120×31mm/180g (instrument) 255×210×50mm/790g (with carrying case)
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	$\leq 85\%$
	IP grade	IP57

Standard Configuration

- | | | | |
|-----------------------------------|--------|--------------------------------|---------------|
| 1. P-520 pH/mV/Conductivity meter | 1 unit | 5. Standard pH buffer solution | |
| 2. pH electrode | 1 pc | (pH4.00, pH6.86, pH9.18/50ml) | 1 bottle/each |
| 3. Conductivity electrode | 1 pc | 6. Backup AA battery | 2 pcs |
| 4. Temperature electrode | | 7. Operation manual | 1 copy |



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 conductivity electrode, can recognize electrode automatically.
- Auto recognition of 13 standard pH buffers and there are three series of standard buffers for option: Europe & 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	Electrode: ±0.01 pH, Instrument: ±0.02 pH
	Input current	≤2×10 ⁻¹² A
	Input impedance	≥1×10 ¹² 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
DO	Measuring range	(0 ~ 20.00) mg/L(ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
	Accuracy	Electrode: ±0.10 mg/L, Instrument: ±0.40 mg/L
	Response time	≤30s (25 °C, 90% response)
	Residual current	≤0.1 mg/L
	Temperature compensation	(0 ~ 45) °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	200 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power requirements	Two AA batteries(1.5V×2)
	Dimensions&Weight	65×120×31mm/180g (instrument) 255×210×50mm/790g (with carrying case)
Working Conditions	Ambient temperature	5 ~ 35 °C
	Ambient humidity	≤85%
	IP grade	IP57

Standard Configuration

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

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 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 8 standard conductivity buffers, and there are two options for standard solutions: Europe & America series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode with constant $K=1$ can meet the measuring accuracy requirements for test $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$.
- 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.

P-523 Portable Conductivity/DO Meter

Specifications

MODEL		P-523
Conductivity	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) mS/cm (20.0 ~ 199.9) mS/cm TDS: (0 ~ 100) g/L Salinity: (0 ~ 100) ppt Resistivity: (0 ~ 100) $\text{M}\Omega\cdot\text{cm}$
	Resolution	0.01/0.1/1 $\mu\text{S}/\text{cm}$ 0.01/0.1 mS/cm
	Accuracy	Electrode: $\pm 1.0\%$ FS, Instrument: $\pm 1.5\%$ FS
	Temperature compensation	(0 ~ 50) $^{\circ}\text{C}$ (automatic)
	Electrode constants	0.1/1/10 cm^{-1}
	Reference temperature	25 $^{\circ}\text{C}$, 20 $^{\circ}\text{C}$, 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0 ~ 20.00) $\text{mg}/\text{L}(\text{ppm})$, (0 ~ 200.0)%
	Resolution	0.1/0.01 $\text{mg}/\text{L}(\text{ppm})$, 1/0.1 %
	Accuracy	Electrode: ± 0.10 mg/L , Instrument: ± 0.40 mg/L
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$, 90% response)
	Residual current	≤ 0.1 mg/L
	Temperature compensation	(0 ~ 45) $^{\circ}\text{C}$ (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	200 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power	Two AA batteries (1.5V \times 2)
	Size & Weight	65 \times 120 \times 31mm/180g (instrument) 255 \times 210 \times 50mm/790g (with carrying case)
Working Conditions	Ambient temperature	(5 ~ 35) $^{\circ}\text{C}$ (grade 0.01)
	Ambient humidity	$\leq 85\%$
	IP grade	IP57

Standard Configuration

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



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, large and easy-to-read LCD screen, replaceable electrode.

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(pH4.00/7.00/9.18)
Power	CR2032 button battery
Battery Life	100 hours
IP Rating	IP57
Size & Dimension	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 |



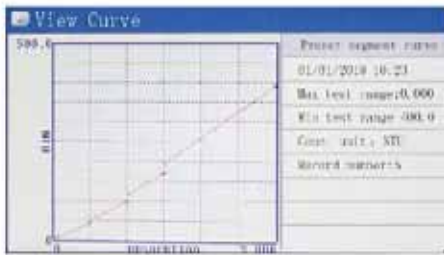
Main Features

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

Model	P-311
Measuring Range	(0~10.00) mS/cm: (0~99.9) μ S/cm (100~999) μ S/cm (1.00~10.00) mS/cm
Resolution	0.1/1 μ S/cm, 0.01 mS/cm
Accuracy	\pm 3%FS
Temperature Compensation	0 ~ 60 °C
Calibration	1 point(1413 μ S/cm, automatic)
Power	CR2032 button battery
Battery Life	100 hours
IP Rating	IP57
Size & Dimension	180×50×20mm / 80g(pH 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 |



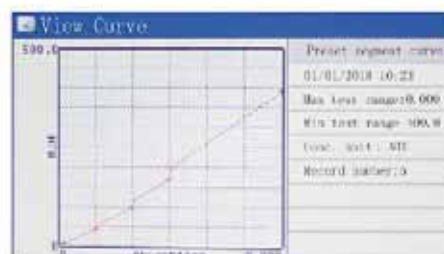
Main Features

- 4.3 inch colored TFT screen with friendly UI make operations easy.
- Big storage space and support USB storage and data transfer to USB drive.
- Contain 200 curves and customize high precision test curve according to measurement ranges. Customers can set up different piecewise curve and coefficient subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly and provide big storage up to 500M.
- Data transfer to PC via USB interface and optional wireless Bluetooth transmission.
- Adopt special and high precision light filter system to ensure the instruments' stability and measurement precision.
- Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

Specifications

Description	Drinking Water Turbidity	Smart Turbidity	High-precision Turbidity
Model	BT-4000D	BT-4000S	BT-4000H
Minimum readout (NTU)	0.001	0.01	0.001 0.01
Measuring range (NTU)	0~10, 0~100	0~10, 0~100, 0~1000, 0~4000	0~10, 0~100, 0~1000, 0~4000
Basic error	±5%FS	±5%FS	±2%FS
Repeatability	≤0.5%	≤0.5%	≤0.5%
Zero draft	±0.5%F.S	---	---
Applications	Drinking water and low turbidity solutions, with wider cuvette	Industrial waste water and river water	Industrial waste water and river water

PT-4000 Series Portable Turbidity Meter



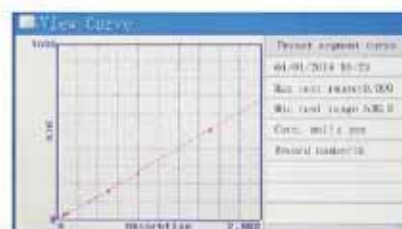
Main Features

- 4.3 inch colored TFT screen with friendly UI make operations easy.
- Big storage space for local memory.
- Contain 200 curves and customize high precision test curve according to measurement ranges. Customers can set up different piecewise curve and coefficient subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly and provide big storage up to 500M.
- Adopt advanced power management system, can show the battery status in real time and be charged via USB port on PC or vehicle which is very convenient for customers.
- Adopt special and high precision light filter system to ensure the instruments' stability and measurement precision. Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

Specifications

Description	Smart Turbidity	High-precision Turbidity
Model	PT-4000S	PT-4000H
Minimum readout (NTU)	0.01	0.001
Measuring range (NTU)	0~10, 0~100, 0~1000, 0~4000	0~10, 0~100, 0~1000, 0~4000
Basic error	±5%FS	±3%FS
Repeatability	≤0.5%	≤0.5%
Zero draft	±0.5%FS	±0.5%FS
Applications	Industrial waste water and river water	Industrial waste water and river water

BC-4000 Series Benchtop Colorimeter



Main Features

- 4.3 inch colored TFT screen with friendly UI make operations easy.
- Big storage space and support USB storage and data transfer to USB drive.
- Contain 200 curves and customize high precision test curve according to measurement ranges. Customers can set up different piecewise curve and coefficient subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly and provide big storage up to 500M.
- Data transfer to PC via USB interface and optional wireless Bluetooth transmission.
- Adopt special and high precision light filter system to ensure the instruments' stability and measurement precision.
- Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

Specifications

Description	Drinking Water Colorimeter	Smart Colorimeter	High-precision Colorimeter
Model	BC-4000D	BC-4000S	BC-4000H
Minimum readout (PCU)	0.001	0.1	0.001 0.01
Measuring range (PCU)	0~50	0~500	0~500
Basic error	±5%FS	±5%FS	±5%FS
Repeatability	≤0.5%	≤0.5%	≤0.5%
Zero draft	±0.5%FS	±0.5%FS	±0.5%FS
Characteristics	Drinking water and low chroma solutions, with wider cuvette	Industrial waste water and river water	Industrial waste water and river water



Main Features

- 4.3 inch colored TFT screen with friendly UI make operations easy.
- Big storage space for local memory.
- Contain 200 curves and customize high precision test curve according to measurement ranges. Customers can set up different piecewise curve and coefficient subject to different concentrations which will literally improve measurement precision.
- Adopt ARM9 main control chip which makes operations easy and smooth, instrument respond quickly and provide big storage up to 500M.
- Adopt advanced power management system, can show the battery status in real time and be charged via USB port on PC or vehicle which is very convenient for customers.
- Adopt special and high precision light filter system to ensure the instruments' stability and measurement precision. Cold light source, narrowband interference, with long lifetime up to 100,000 hours.

Specifications

Description	High-precision Colorimeter
Model	PC-4000H
Minimum readout (PCU)	0.001
Measuring range (PCU)	0-500, 0-100
Basic error	±3%FS
Repeatability	≤0.5%
Zero draft	±0.5%FS
Applications	Industrial waste water and river water

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	165 x 125 x 65 mm/700g

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