

## P6 Series Portable pH/EC/DO/Ion Meter

• pH • mV • ISE • Cond • Res • TDS • Sal • DO • Temp



### General Features:

1. Large LCD screen with controllable white backlight.
2. Built-in microprocessor chip has Intelligent functions such as auto calibration, ATC, data storage, function settings, auto diagnosis, auto power off, and undervoltage prompt, etc.

### Features:

#### • pH Mode

- Auto recognition of 25 buffers with three kinds of options: Europe & USA, NIST and China. Support 1, 2, 3-point calibration

#### • Conductivity Mode

- Adopt advanced conductivity measurement technology, with conductivity electrode (K=1), it can meet measuring accuracy requirement for range of 0.5uS/cm-200mS/cm.
- Can switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Auto recognition of 8 conductivity standard solution with 2 kinds of options: Europe & USA, and China.

#### • DO Mode

- It has functions of ATC, auto salinity compensation and manual pressure compensation.
- Polarographic DO electrode, short polarization time (3-5 minutes).

#### • ISE Mode

- Can test electric potential, pH, pX, ORP, ion concentration and temperature
- Can switch 6 kinds of concentration units: ug/L, mg/L, g/L, mol/L, mmol/L, PX
- Auto recognition of buffers with 3 kinds of options: Europe & USA, NIST and China. Support 1, 2, 3, 4, 5-point

Model	Description	Application
P611	pH Meter	General laboratory pH meter, which can be used in most of the areas related to water quality analysis
P612	Conductivity Meter	Used to measure the conductivity value of conventional aqueous solutions, especially in education and scientific research
P613	pH/Conductivity Meter	Suitable for high-precision pH/Conductivity measurement in scientific research, quality control, biotechnology, fine chemicals, etc.
P614	DO Meter	Applicable to aquaculture, water source monitoring, sewage treatment and environmental monitoring, etc., also widely used in education and scientific research
P615	pH/DO Meter	Suitable for biotechnology, aquaculture, power plants and environmental protection industries, especially in education and research
P616	Conductivity/DO Meter	Widely used in biotechnology, aquaculture, power plants and environmental protection industries
P618-F	Fluoride Ion Meter	Test and analysis of the fluoride in drinking water, surface water, sea water, living sewage and industrial wastewater and the fluoride ion in mineral, organic and biological materials
P618-Na	Sodium Ion Meter	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
P618-Ca	Calcium Ion Meter	Test calcium ion and pH value of water solutions. Widely used in the analysis and research of water quality, biochemistry and biomedicine.
P618-Cl	Chloride Ion Meter	Measure chloride ion and pH value in drinking water, food and sewage
P618-Br	Bromide Ion Meter	Test bromide ion and pH value in drinking water, food and sewage
P618-NO	Nitrate Ion Meter	Test nitrate ion and pH value in drinking water, food and sewage
P618-K	Potassium Ion Meter	Measure potassium ion and pH value in drinking water, food and sewage
P618-NH	Ammonia Ion Meter	Test ammonia & nitrogen and pH value in drinking water, food and sewage
P618-Cu	Copper Ion Meter	Test copper ion and pH value in food, beverage, electroplating industry and sewage
P618-I	Iodide Ion Meter	Test iodide and pH value in drinking water, food and sewage

Model		P611	P612	P613	P614	P615	P616	P618
Standard Accessories	Mini magnetic stirrer							√
	Electrode holder	√	√	√	√	√	√	√
	pH composite electrode	√		√		√		
	Cond. electrode (K=1)		√	√			√	
	DO electrode				√	√	√	
	Ion electrode							√
	Temperature probe	√	√	√	√	√	√	√
	Reference electrode							√
	pH buffer solution	√		√		√		
	DO filling solution				√	√	√	
	Membrane cap				√	√	√	
	Cathode polishing paper				√	√	√	
	Backup AA battery	√	√	√	√	√	√	√
Manual	√	√	√	√	√	√	√	

Model		P611	P612	P613	P614	P615	P616	P618
Parameters	pH/mV	√		√		√		√
	ISE							√
	Cond./TDS/Sal./Res.		√	√			√	
	DO				√	√	√	
	Temp.	√	√	√	√	√	√	√
pH	Measuring range	(-2.00-19.99) pH						
	Resolution	0.1/0.01pH						
	Accuracy	Overall: ±0.02pH, Meter: ±0.01pH		√		√		√
	Input impedance	≥ 1x10 <sup>12</sup> Ω			√			
	Stability	±0.01pH/3h						
	Temp. compensation	(0-100) °C, auto or manual						
mV	Measuring range	-1999.9mV-0-1999.9mV		√		√		√
	Resolution	1mV						
	Accuracy	±0.1%FS						
pX	Measuring range	(0.000-14.000) pX						
	Resolution	0.01pX						
	Accuracy	±0.02pX						√
	Temp. compensation	(0-100) °C, auto or manual						
	Auto calibration	1, 2, 3, 4, 5 point						
Ion Conc.	Measuring range	(0-19990)						
	Resolution	4 significant figures (scientific notation)						√
	Accuracy	±0.5%						
Cond.	Measuring range	Conductivity:						
		(0.00-19.99) uS/cm,						
		(20.0-199.9) uS/cm						
		(200-1999) 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) MΩ*cm							
	Resolution	0.01/0.1/1uS/cm, 0.01/0.1mS/cm						
	Accuracy	±1.0%FS, Overall: ±1.5%FS						
Temp. compensation	(0-100) °C, auto/manual							
Electrode constant	0.1/1/10cm-1							
Reference Temp.	25°C, 20°C, 18°C							
DO	Measuring range	(0-20.00) mg/L(ppm), (0-200.0) %						
	Resolution	0.1/0.01mg/L(ppm), 1/0.1%						
	Accuracy	Electrode: ±0.10mg/L, Meter: ±0.40mg/L						
	Response time	≤30s(25°C, 90%response)						
	Residual current	≤0.1mg/L						
	Temp. compensation	(0-45) °C, auto				√	√	√
	Salinity compensation	(0-45) ppt, auto						
	Pressure compensation	(66-200) kPa, manual						
	Auto calibration	Air saturated by water, water saturated by air						
Electrode type	Polarographic							
Temp.	Range	(0-110) °C		√	√	√	√	√
	Resolution	0.1°C						
	Accuracy	5-60°C: ±0.4°C others: ±0.8°C						
Other	Data storage	200 sets						
	Power	Two AA batteries (1.5Vx2)						
	Ambient Temp.	15-30°C						
	Ambient humidity	≤85%		√	√	√	√	√
	IP grade	IP57 dustproof and waterproof						
	Dimension/N.W.	(65*120*31) mm/180g						
Shipping size/G.W.	(460*300*55) mm/1kg							