

P7 Series pH/EC/DO/ISE Meter

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



General Features:

- 6.5-inch LED screen with concise and friendly-use interface.
- Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
- It supports wireless Bluetooth printing. Real-time data transfer to mobile phone via Bluetooth is optional.
- Smart electrode status display to ensure accurate use.
- Omron long lasting and light touch key can be used more than 100,000 times.
- Can store 1000 sets of test data, which can be saved and transferred to USB memory stick and opened with Excel.

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:

- Ability to 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 auto pressure compensation.
- Polarographic DO electrode, short polarization time (3-5minutes)

• 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 calibration.

Model		P711	P712	P713	P714	P715	P716	P717	P718
Parameters	pH/mV	√		√		√		√	√
	ISE								√
	Cond./TDS/Sal./Res.		√	√			√	√	
	DO				√	√	√	√	
	Temp.	√	√	√	√	√	√	√	√
pH	Measuring range	(-2.00-18.00) pH							
	Resolution	0.01pH							
	Accuracy	Electrode: ±0.01pH, Meter: ±0.02pH							
	Auto calibration	1, 2, 3 point							
	Buffer	Europe & USA, NIST, China standards		√		√		√	√
	Input current	≤2x10 ⁻¹² A							
	Input impedance	≥ 1x10 ¹² Ω							
	Stability	±0.02pH/3h							
Temp. compensation	(0-100) °C, auto or manual								
mV ORP	Measuring range	-1999.9mV-0-1999.9mV		√		√		√	√
	Resolution	0.1mV							
	Accuracy	±0.03%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:							
		(0.00-20.00) uS/cm, (20.0-200.0) uS/cm							
		(200-2000) uS/cm, (2.00-20.00) mS/cm							
		(20.0-200.0) mS/cm							
		(200-20000) mS/cm (k=10)							
		TDS: (0-100) g/L							
	Resolution	Salinity: (0-100) ppt			√	√		√	√
		Resistivity:)0-100) MΩ•cm							
		0.01/0.1/1uS/cm, 0.01/0.1mS/cm							
		Accuracy		Electrode: ±0.5%FS, Meter: ±0.8%FS					
		(0-50) °C, auto							
Temp. compensation	(0-50) °C, auto								
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	(80-105) kPa, auto							
	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	Display	6.5-inch LED screen							
	Data storage	1000 sets							
	Power	12V/1A							
	Output	USB, Bluetooth							
	Ambient Temp.	5-35 °C		√	√	√	√	√	√
	Ambient humidity	≤85%							
	IP grade	IP54							
	Dimension/N.W.	215x170x37mm/600g							
Shipping size/G.W.	470x430x72mm/3kg								