

Touch Screen Multi-parameter Meter



Model	P13	P14	P15	P16
Function	PH/EC	PH/DO	EC/DO	PH/EC/DO/Ion

Features & Functions

1. 7 inches color touch screen.
2. 3 series standard PH buffer optional: USA, NIST, CHINA. Automatically distinguish 5 kinds of standard PH buffers.
3. Automatically distinguish 8 kinds of standard Conductance buffer solutions.
4. 2 series standard buffer solutions optional: USA, CHINA.
5. Equips new type of DO electrode which has function of automatic temperature compensation and automatic salinity compensation as well as automatic air pressure compensation inside meter to make DO measuring mode has temperature, air pressure and salinity automatic compensation, easy to use, accurate to measure.
5. Compliance with GLP.
6. Automatically calibration, automatically temperature compensation, data storage & output, time display, function set and self-diagnosis.
7. Can switch among Conductance, TDS, Salinity and Resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
8. Test results can be stored(Max 2000 sets), deleted, searched and printed.
9. User can print or transfer data via Bluetooth.
10. IP54 Grade.
11. Electrode adopts combination diaphragm cap, assembling sensitive membrane with diaphragm cap, which very convenient to replace the sensitive membrane. The user only needs to screw the new membrane cap on the electrode.
12. Adopt advanced and original conductivity measurement technology, use 1 pc of conductivity electrode (K=1), it can meet measuring accuracy requirement for range within $0.5 \mu\text{S/cm} \sim 200\text{mS/cm}$ by using only one-point calibration.

Model Number	P13	
PH	Range	(-1.999 - 19.999)pH
	Resolution	0.1/0.01/0.001 pH
	Accuracy	Meter: ± 0.002 ph, connect meter with electrode: ± 0.01 ph
	Input Current	$\leq 1 \times 10^{-12}$ A
	Input Resistance	$\geq 3 \times 10^{12}$ Ω
	Temp. Compensation	(0 -100) $^{\circ}$ C
	Stability	± 0.002 pH/3h
MV	Range	-1999.9mV - 0 - 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.03\%$ FS
Conductance	Range	(0-2000)mS/cm (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)
	Temp. Compensation	(0 - 50) $^{\circ}$ C, Automatically
	Electrode Factor	0.1/ 0.5/ 1/5/10/50/ 100 cm ⁻¹
	Resolution	0.01/0.1/1 μ S/cm 0.01/0.1/1 mS/cm
	Accuracy	Meter: $\pm 0.5\%$ FS, connect meter with electrode: $\pm 0.8\%$ FS
Temp	Range	-10 $^{\circ}$ C ~ 110 $^{\circ}$ C
	Resolution	0.1 $^{\circ}$ C
	Accuracy	5~ 60 $^{\circ}$ C: $\pm 0.5^{\circ}$ C Other range: $\pm 1.0^{\circ}$ C
Resistivity	(0 -100)M $\Omega \cdot$ cm	
Salinity Range	(0-100)ppt	
TDS	(0 -100)g/L	

Model Number	P14	
PH	Range	(-1.999 - 19.999)pH
	Resolution	0.1/0.01/0.001 pH
	Accuracy	Meter: ± 0.002 ph, connect meter with electrode: ± 0.01 ph
	Input Current	$\leq 1 \times 10^{-12}$ A
	Input Resistance	$\geq 3 \times 10^{12}$ Ω
	Temp. Compensation	(0 -100) $^{\circ}$ C
	Stability	± 0.002 pH/3h
MV	Range	-1999.9mV - 0 - 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.03\%$ FS
DO	Range	(0 -20.00)mg/L(ppm) (0 - 200.0)%
	Temp. Compensation	(0 - 45) $^{\circ}$ C, Automatically
	Salinity Compensation	(0 - 45)ppt, Automatically
	Air Pressure Compensation	(80-105)kpa, Automatically
	Response Time	≤ 30 s
	Residual Current	≤ 0.1 mg/L
	Electrode Type	Polarogram type
	Automatic calibration	Air saturated by water; water saturated by air
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1 %
	Accuracy	Meter: ± 0.10 mg/L connect meter with electrode: ± 0.40 mg/L
Temp	Range	-10 $^{\circ}$ C~ 110 $^{\circ}$ C
	Resolution	0.1 $^{\circ}$ C
	Accuracy	5~ 60 $^{\circ}$ C: $\pm 0.5^{\circ}$ C Other range: $\pm 1.0^{\circ}$ C

Model Number	P15	
Conductance	Range	(0-2000)mS/cm (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)
	Temp. Compensation	(0 - 50) °C, Automatically
	Electrode Factor	0.1/ 0.5/ 1/5/10/50/ 100 cm-1
	Resolution	0.01/0.1/1 μ S/cm 0.01/0.1/1 mS/cm
	Accuracy	Meter: \pm 0.5% FS, connect meter with electrode: \pm 0.8% FS
Temp	Range	-10°C~ 110°C
	Resolution	0.1°C
	Accuracy	5~ 60°C: \pm 0.5°C Other range: \pm 1.0°C
DO	Range	(0 -20.00)mg/L(ppm) (0 - 200.0)%
	Temp. Compensation	(0 - 45) °C, Automatically
	Salinity Compensation	(0 - 45)ppt, Automatically
	Air Pressure Compensation	(80-105)kpa, Automatically
	Response Time	\leq 30 s
	Residual Current	\leq 0.1 mg/L
	Electrode Type	Polarogram type
	Automatic calibration	Air saturated by water; water saturated by air
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1 %
	Accuracy	Meter: \pm 0.10 mg/L connect meter with electrode: \pm 0.40 mg/L
Resistivity	(0 -100)M Ω • cm	
Salinity Range	(0-100)ppt	
TDS	(0 -100)g/L	

Model Number	P16	
Conductance	Range	(0-2000)mS/cm (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)
	Temp. Compensation	(0 - 50)°C, Automatically
	Electrode Factor	0.1/ 0.5/ 1/5/10/50/ 100 cm-1
	Resolution	0.01/0.1/1 μ S/cm 0.01/0.1/1 mS/cm
	Accuracy	Meter: $\pm 0.5\%$ FS, connect meter with electrode: $\pm 0.8\%$ FS
Temp	Range	-10°C~ 110°C
	Resolution	0.1°C
	Accuracy	5~ 60°C: $\pm 0.5\%$ Other range: $\pm 1.0\%$
DO	Range	(0 -20.00)mg/L(ppm) (0 - 200.0)%
	Temp. Compensation	(0 - 45)°C, Automatically
	Salinity Compensation	(0 - 45)ppt, Automatically
	Air Pressure Compensation	(80-105)kpa, Automatically
	Response Time	≤ 30 s
	Residual Current	≤ 0.1 mg/L
	Electrode Type	Polarogram type
	Automatic calibration	Air saturated by water; water saturated by air
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1 %
	Accuracy	Meter: ± 0.10 mg/L connect meter with electrode: ± 0.40 mg/L
PH	Range	(-1.999 - 19.999)pH
	Resolution	0.1/0.01/0.001 pH
	Accuracy	Meter: ± 0.002 ph, connect meter with electrode: ± 0.01 ph
	Input Current	$\leq 1 \times 10^{-12}$ A
	Input Resistance	$\geq 3 \times 10^{12}$ Ω
	Temp. Compensation	(0 -100)°C
	Stability	± 0.002 pH/3h
MV	Range	-1999.9mV - 0 - 1999.9mV
	Resolution	0.1mV
	Accuracy	$\pm 0.03\%$ FS

Ion	Range	0.00-14.00pX
	Unit	Px, mol/L, mg/L, ppm
	Accuracy	Meter: +/-0.5% of readout,
	Temp. Compensation	(0-60)°C, Automatically

Ordering Information

Model Number	Accessories
P13	Plastic PH/ATC Combined Electrode *1, Glass PH Combined Electrode*1, Temp Electrode*1, 2401-M Conductance Electrode *1, PH Buffer (pH4.00, pH6.86, pH9.18/50ml) *3, 1408 μ S/cm buffer 50ml* 2, Flexible Electrode Holder*1, Adapter*1, Operation Manual*1
P14	Plastic PH/ATC Combined Electrode *1, Glass PH Combined Electrode*1, Temp Electrode*1, DO500 Electrode *1, PH Buffer (pH4.00, pH6.86, pH9.18/50ml) *3, Flexible Electrode Holder*1, Adapter*1, Operation Manual*1, DO503 membrane cap(DO electrode use)*3, DO502 DO electrode inner solution(30mL), Cathode polishing paper*2, R100 Magnetic Stirrer *1 Unit
P15	2401-M Conductance Electrode *1, Temp Electrode*1, DO500 Electrode *1, Flexible Electrode Holder*1, Adapter*1, Operation Manual*1, DO503 membrane cap(DO electrode use)*3, 1408 μ S/cm buffer 50ml* 2, DO502 DO electrode inner solution(30mL), Cathode polishing paper*2, R100 Magnetic Stirrer *1 Unit
P16	Plastic PH/ATC Combined Electrode *1, Glass PH Combined Electrode*1, 2401-M Conductance Electrode *1, Temp Electrode*1, DO500 Electrode *1, Flexible Electrode Holder*1, Adapter*1, Operation Manual*1, DO503 membrane cap(DO electrode use)*3, 1408 μ S/cm buffer 50ml* 2, DO502 DO electrode inner solution(30mL), Cathode polishing paper*2, R100 Magnetic Stirrer *1 Unit

Other Technical Parameters	Storage: 2000groups Storage Content: Sr.No., Test Result, Temp, ATC or MTC, Date, Time. Power: DC9V/300mA Interface: USB, Bluetooth Dimension/Weight: 160 x 190 x 70mm/880g
Work Station	Ambient: 5- 35 °C Humidity: \leq 80% IP Grade: IP54