

# P-523 Portable Conductivity/DO Meter



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

## Main Features

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



## Specifications

MODEL	P-523	
Conductivity	Measuring range	Conductivity: (0.00 ~19.99) $\mu\text{S}/\text{cm}$ (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	(0~100) $^{\circ}\text{C}$ (automatic)
	Electrode constants	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0~20.00) mg/L(ppm), (0 ~ 200.0)%
	Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ mg/L
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ mg/L
	Temperature compensation	(0~100) $^{\circ}\text{C}$ (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	150 groups
	Storage contents	Series number, measuring value measuring unit and temperature
	Power	Two AA batteries(1.5V×2)
	Size & Weight	160×90×30mm/360g (instrument) 380×310×120mm/1.5kg (with packing)
Working Conditions	Ambient temperature	(5~35) $^{\circ}\text{C}$ (grade 0.01)
	Ambient humidity	$\leq 85\%$
	IP grade	IP57

## Standard Configuration

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