

# P-511 Portable Conductivity Meter



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 solutions and there are two series of standard buffers for option: USA series, China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{ S/cm} \sim 200\text{mS/cm}$ .
- 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) $\text{mS}/\text{cm}$ (20.0~199.9) $\text{mS}/\text{cm}$ 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 $\text{mS}/\text{cm}$
	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 $^{\circ}\text{C}$
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

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|--|--------|
| 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 |