

LABORATORY pH / CONDUCTIVITY / SALINITY METER CPC-511

Easy in use laboratory measuring device, which measures pH, mV (redox potential), conductivity, salinity, TDS and temperature.

Characteristic features:

- Large LCD enables simultaneous readout of the measured function and temperature.
- Very easy in use.

In the pH measuring function:

- Calibration in 1 ÷ 3 points in buffer solutions.
- Automatic detection of the pH buffer solution's value 4.00, 7.00, 9.00 pH (optionally: 4.00, 7.00, 10.00 pH).
- Meter shows information about the pH electrode condition (readout of the buffer and slope values).
- Automatic temperature compensation.
- Depending on the chosen electrode, makes measurement in clean water, sewage, pastes, etc.

In the conductivity measuring function:

- Measures conductivity in distilled water and other liquids up to 1000 mS/cm.
- 5 sub ranges switched automatically (autorange).
- Salinity measurement converted to NaCl up to 250 g/l or KCl up to 200 g/l.
- Converts conductivity into salinity according to real characteristics and not a constant coefficient.
- Determines estimated value of the total dissolved solids (TDS).
- Calibration, by entering the K constant of the cell or by determining it with use of a standard solution.
- Possibility of entering the reference temperature value.
- Automatic temperature compensation.
- Constant α temperature coefficient: 2 % / °C. For precise measurements with temperature compensation it is recommended to use meters with variable coefficient (**CPC-502, CPC-505**).

Other features:

- Memory of 50 results.
- Wide temperature measuring range.
- Warranty for the meter: 24 months.

The set includes **CT2B-121** temperature probe with **Pt-1000B** resistor, accurate **ECF-1** conductivity cell and **EPS-1** pH electrode for measurements in clear water, which should not be used in other types of liquid. Measurements in liquid with sediment should be made with use of **IJ44A** pH electrode. Its unusual construction ("intermediate junction") protects the real junction (diaphragm) of the electrode against clogging, ensures stable measurements in these types of liquids or semi-liquid mass, in which other electrodes stop working quickly. When properly handled, the electrode's lifetime is longer than the standard electrodes



TECHNICAL DATA

Function	pH	mV	Conductivity / Salinity	Temperature
Range	-2.00 ÷ 16.00 pH	± 1999 mV	0 ÷ 1000 mS/cm (autorange) / up to 250 g/l NaCl up to 200 g/l KCl	-50.0 ÷ 199.9 °C
Accuracy (± 1 digit)	±0.01pH*	±1 mV*	±0,25%* / salinity: 2%*	±0.1 °C**
Temp. Compens. range	-5.0 ÷ 110.0 °C	-	-5.0 ÷ 70.0 °C	-
Input impedance	10 ¹² Ω	10 ¹² Ω	-	-
α coefficient	-	-	Constant: 2% / °C	-
K constant	-	-	0.010 ÷ 19.999 cm ⁻¹	-
Power	12 V / 100 mA power adapter			
Weight	520 g			
Dimensions (mm)	L = 200; W = 180; H = 20/50			

*The accuracy of the meter only.

**The accuracy of the meter only. The total error includes the meters and probe's accuracy.

In the range 0 ÷ 100 °C the acceptable error of the probe with Pt-1000B resistor: ±0.8 °C, with Pt-1000A resistor: ±0.35 °C.

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