

pH / CONDUCTIVITY METER CPC-461

- The **CPC-461** pH / conductivity meter belongs to the newest generation of meters.
- It is distinguished by a large 3,2" colour graphic touch screen.
- The meter is designed for accurate measurements of : pH, redox potential (mV), conductivity, salinity, TDS temperature.
- It enables simultaneous observation of the pH, conductivity and temperature measurement results.
- The meter may be used for the field measurements as well as during accurate laboratory work.
- Low weight and small size make working in the field easier.
- Waterproof housing (IP-66) enables working in difficult conditions.

In the pH and mV measurement function:

- The pH and conductivity measurement circuits are isolated one from another.
- Depending on the kind of applied electrode it may be used for clean water, sewage, soil, pastes measurements etc.
- Calibration of the pH electrode in 1 ÷ 5 points.
- Automatic detection of buffer solutions, their values may be set by the user.
- Automatic correction of the pH sample solution value changes along with the temperature changes for NIST standards.
- Automatic temperature compensation.
- Possibility of storing characteristics of 3 pH electrodes enables their quick replacing – very useful feature during field work.
- Automatic control of the electrode's condition.
- Precise Redox potential measurement (accuracy 0.1mV).

In the conductivity measurement function:

- Full measuring range enables measurements in ultra pure water as well as in very salty solutions.
- 6 sub-ranges switched automatically.
- Works with conductivity cells equipped with platinum electrodes.
- Calibration by entering the constant K in range $0.01 \div 19.999 \text{ cm}^{-1}$ or in buffer solution.
- Possibility to store constants K of 3 cells which cover whole measuring range.
- Wide range of α coefficient $0 \div 10 \text{ \% / } ^\circ\text{C}$ chosen depending on the measured solution.
- Possibility of changing the reference temperature.
- Automatic calculation of conductivity into salinity in NaCl or KCl on the basis of the actual characteristics instead of a constant coefficient, what greatly increases accuracy.
- Possibility of defining the TDS with entering the TDS coefficient in range $0.2 \div 1.0$.

In the temperature measurement function

- Memory of parameters 3 different temperature sensors. It is possible to enter the group of selected temperature sensor what increases the measurement accuracy.

Other features:

- Internal clock with date.
- Collecting up to 2000 data sets in the internal datalogger with temperature, time and date, single collecting and also taking series of measurements possible with time and date – all measured functions are stored.
- Non-volatile memory of the stored results and calibration data
- Storing the date of next calibration and remembering it in the right moment to the user.
- Possibility of choosing the language of the displayed information : Polish , English or German.
- Powered by rechargeable batteries 2 x AA (1.5V), or by power adapter with internal charging of batteries.
- Continuous work time without charging up to 18 hours depending on the chosen function and set brightness of the screen.
- Connecting with a PC by RS-232 or USB output using an adapter (optional).
- The meter is sold with the EPS-1 standard glass pH electrode, EC-60 conductivity cell and temperature sensor.
- The meter meets the GLP requirements.
- 24 months of warranty for the meter.



TECHNICAL DATA

Function	pH	mV	Conductivity, salinity	Temperature
Range	-2.000 ÷ 16.000 pH	±1999.9 mV	0 ÷ 1999.9 mS/cm 0 ÷ 200 g KCl 0 ÷ 250 g NaCl	-50.0 ÷ 199.9°C
Accuracy (± 1 digit)	±0.002 pH	±0.1 mV	±0.1% > 20 mS/cm: ±0,25%	±0.1 °C*
Temperature compensation	-5 ÷ 110 °C	-	-5 ÷ 70 °C	-
Input impedance	10 ¹² Ω	10 ¹² Ω	-	-
Dimensions (mm)	L=149 W=82 H=22			
Weight with batteries	255 g			

* Accuracy of the meter. The total error is a sum of meters error and the applied probe error.

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