

## pH- METER CP-461

- pH-meter **CP-461** 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) and temperature.
- 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.
  
- Depending on the kind of applied electrode it may be used for clean water, sewage, soil, pastes, paints, cheese, milk, meat 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 or manual 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.
- Easy to read electrode parameters (buffer and slope)
- Precise Redox potential measurement (accuracy 0.1mV).
- 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.
- 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 brightness of the screen.
- Connecting with a PC by RS-232 or USB output using an adapter (optional).
- The meter is sold with the temperature sensor and standard EPS-1 pH electrode.
- The meter meets the GLP requirements.
- 24 months of warranty for the meter.

## TECHNICAL DATA

Function:	pH	mV	Temperature
Range:	-2.000 ÷ 16.000 pH	±1999.9 mV	-50.0 ÷ 199.9°C
Accuracy (± 1 digit)	±0.002 pH	±0.1 mV	±0.1 °C*
Temperature compensation	-5 ÷ 110 °C	-	-
Input impedance	$10^{12}\Omega$	$10^{12}\Omega$	-
Dimensions (mm)	L=149 W=82 H=22		
Weight with batteries	251 g		

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



**ELMEIRON**

41-814 ZABRZE; W. Witosa 10; Poland  
Tel. +48 32 273 81 06, fax +48 32 273 81 14  
[info@elmetron.com.pl](mailto:info@elmetron.com.pl) [www.elmetron.com](http://www.elmetron.com)