WATERPROOF pH-METER CP-461

CP-461 pH -meter belongs to the newest generation of meters. It is distinguished by a large 3,2" colour graphic touch screen.

Characteristic features:

- The meter is designed for highly accurate measurements of: pH, redox potential and temperature.
- It 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.
- "HOLD" function to freeze the result on the display.
- Signalisation of the result stabilisation with the "READY" symbol and a sound.
- Possibility of sending a calibration report to a PC up to 10 last calibrations.
- Depending on the kind of applied electrode it may be used for clean water, sewage, soil, pastes, paints, cheese, milk, meat, 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, what eliminates the necessity to adjust the temperature.
- 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 readout of the electrode's parameters (buffer and slope).

- Precise redox potential measurement (accuracy 0.1mV). ٠
- Possibility of mV measurement in relation to the set or measured reference ٠
- potential (Vref).
- Memory of 3 different temperature sensors parameters.
- It is possible to enter the group of selective 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. •
- ٠ Storing the next calibration date.
- Possibility of choosing the language: Polish, English or German. •
- Possibility of connecting with a PC by a micro USB output.
- Powered by rechargeable batteries or power adapter with USB micro USB cable.
- The rechargeable batteries are charged internally.
- Continuous work time without charging up to 18 hours depending on the chosen • brightness of the screen.
- The meter meets the GLP requirements.

The standard set includes CT2S-121 teperature sensor with Pt-1000S resistor with 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, which enables measurements in various samples of both pure and contaminated liquids and semi-solids. Its unusual construction ("intermediate junction") protects the real junction (diaphragma) 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.

Function:	рН	Redox / mV	Temperature
Range:	-2.000 ÷ 16.000 pH	± 2000 mV	-50.0 ÷ 200.0°C
Resolution	0.001 pH or 0.01 pH	0.1 mV	0.1 ⁰C
Accuracy (1 digit)	± 0.002 pH*	$\pm 0.1 \text{ mV}^*$	± 0.1 °C**
Temperature compensation	-5 ़ 110 ℃	-	-
Input impedance	10 ₁₂ W	1012W	-
Power supply	2 x 1.2 V AA rechargeable batteries, 5 V / 1000 mA micro USB power adapter		
Weight	250 g		
Dimmensions (mm)	L=149 W=82 H=22		

TECHNICAL DATA

*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-1000S resistor: ±0,27 °C.



tel. +48 32 / 2738106 fax +48 32 / 2738114 www.elmetron.pl e-mail: info@elmetron.com.pl