

LABORATORY pH-METER CP-505

Measures accurately: pH, redox potential (mV) and temperature. The most recent model has been improved with more possibilities providing easier operation.

Characteristic features:

- The meter is equipped with large, easy-to-read backlit LCD display with brightness control.
- "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 pH electrode it may be used for clean water, sewage, soil measurements etc.
- Calibration of the pH electrode: 1 ÷ 5 points.
- Automatic buffers detection, their value may be changed by the user.
- Automatic correction of the pH sample solution value changes, along with the temperature changes for NIST standards, what eliminates the necessity of the temperature adjustment.



- Automatic or manual temperature compensation.
- Memory of 3 electrodes' characteristics makes changing them easy.
- Automatic evaluation of the electrode's condition.
- Readout of the pH electrode condition and data - the zero offset and slope percentage may be checked.
- Precise redox potential measurement (accuracy 0.1 mV).
- Possibility of automatic calculation of the redox potential result in reference to the standard hydrogen electrode.

- Possibility of mV measurement in relation to the set or measured reference potential (Vref).
- Internal clock with date.
- Storing of the pH electrode calibration date.
- Internal datalogger for up to 4000 sets of results collected in series or singly with temperature, time and date.
- USB output for a PC.
- Change of the date protected by a password
- The data transmission software enables printout of the data in a form protected against any changes.
- The meter meets the GLP requirements
- 24 months of warranty for the meter.
- IP64 ingress protection.
- Software for data transmission and collection and user's manual in English included in the set.

The standard set includes: **CT2B-121** temperature probe with **Pt-1000B** resistor 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, which enables measurements in various samples of both pure and contaminated liquids and semi-solids. 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	Redox / mV	Temperature
Range	-6.000 ÷ 20.000 pH	±1999.9mV	-50.0 ÷ 199.9 °C
Resolution	0.001 pH or 0.01 pH	0.1mV	0.1 °C
Accuracy* (± 1 digit)	±0.002 pH*	±0.1 mV*	±0.1 °C**
Temp. compensation	-5 ÷ 110.0 °C	-	
Input impedance	>10 ¹² Ω	>10 ¹² Ω	-
Power supply	12 V / 100 mA power adapter		
Weight	550 g		
Dimensions (mm)	L=200, W=150, 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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