

WATERPROOF pH-METER CP-411

Used for pH, mV (redox potential) and temperature measurements.

Characteristic features:

- Large easy to read LCD display enables simultaneous readout of the measuring function and temperature value.
- Waterproof housing (IP-66) enables work in difficult conditions.
- Small size and low weight make working in the field easier.
- Two kinds of power source, battery or optional power adapter, enable working in the field or long lasting work in laboratory.
- Calibration of the pH electrode in 1 to 3 points.
- Automatic buffer detection 4.00; 7.00; 9.00 pH. (Optionally 4.00; 7.00; 10.00 pH).
- Automatic temperature compensation.
- Depending on the kind of connected pH electrode may be used for measurements of clean water, waste water, meat, cheese, pastes, soil etc.
- Readout of the electrode's slope and offset.
- Possibility of automatic calculation of the redox reading in relation to the chloride/silver electrode to the hydrogen electrode.
- Wide temperature measurement range.
- Easy-in-use.
- Memory of 50 results.
- Equipped with separate stainless steel temperature sensor (Pt-1000B).
- Powered by battery (9V) or power adapter (12 V / 100 mA – option).
- Long-lasting work on 1 battery.
- Automatic switch off function to save the battery.

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The standard set includes **CT2B-121** temperature sensor 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.



IJ44A electrode for measurements in liquid with sediments, sewage, paste and

soil **TECHNICAL DATA**

Function	pH	REDOX / mV	Temperature
Range	0.00 , 14.00 pH	± 1999 mV	-50.0 , 199.9 °C
Resolution	0.01pH	1 mV	0.1 °C
Accuracy (1 digit)	±0.01pH*	±1 mV*	±0.1 °C**
Temp. compensation range	-5 , 110.0 °C	-	-
Input impedance	10 ¹² Ω	10 ¹² Ω	-
Power	9V battery, 12 V / 100 mA power adapter (option)		
Weight	210 g		
Dimensions (mm)	L=149, W=82, H=22		

*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.

ELMETRON Sp. j.

41-814 Zabrze; ul. Witosza 10; POLAND

tel. +48 32 / 2738106 fax +48 32 / 2738114

www.elmetron.com.pl e-mail: info@elmetron.com.pl