

## LABORATORY pH / ION METER CPI-505

- Accurately measures: pH, Redox (mV) ion-selective measurements in pX, g/l, M/l, or ppm and temperature in °C.
- Meter is equipped with large easy-to-read backlight LCD display with brightness control.
- Enables ion concentration measurements of monovalent, bivalent, negative and positive ions.
- The range of the meter enables work with all ion selective electrodes (ISE), chosen adequately to the kind of measured ion, equipped with BNC 50 connector.
- Meter stores independently 3 characteristics of pH electrodes and 3 characteristics of ion selective electrodes.
- Calibration of the pH electrode: 1÷5 points.
- Automatic pH buffer detection, their value may be set by the user.
- Automatic correction of the temperature influence on pH sample solution (NIST) value.
- Automatic checking of the condition of electrode's membrane.
  
- Automatic entering of the Molar weight of the chosen by the user Ion.
- In ion meter possibility of automatic unit conversion when changing the units (ex. mol/l to mg/l)
- Possibility of entering freely chosen values of ion standard solutions.
  
- Automatic and manual temperature compensation.
- Internal clock with date.
- Internal datalogger for up to 950 sets of results collected in series or single with temperature, time and date.
- The results and calibration data are stored in non-volatile memory.
- USB output.
- The meter meets the GLP requirements
- 24 months warranty for the meter



Function	pH	mV	Ion M/l	Ion g/l	Ion ppm	Ion pX	°C
Range	-2.000 ÷ 16.000	±1000 mV**	0 ÷ 100	0 ÷ 1000	0 ÷ 1000 000	-2.00 ÷ 16.00	-50.0 ÷ 199.9
Resolution	0.001 or 0.01	0.1 mV	0.01 / 0.1%	0.01 / 0.1%	0.01 / 0.1%	0.001 / 0.01	0.1 °C
Accuracy (± 1 digit)	±0.002 pH	±0.1 mV	± 0.25%	± 0.25%	± 0.25%	± 0.002 pX	±0.1°C* (meter)
Input impedance	10 <sup>12</sup> Ω						
Temp. compens. range	-5 ÷ 110.0 °C						
Dimensions (mm)	L=200, W=180, H=20/50						
Weight	650 g						

\* The total error of the temperature measurement depends on the kind of used probe  
 \*\* Possibility of widening the range to 2000mV with small lowering of the accuracy to 0.2 mV

**ELMETRON<sup>®</sup> Sp. j.**

41-814 Zabrze ul. Witosa 10 POLAND tel. +48 32 / 2738106 fax +48 32 / 2738114  
[www.elmetron.pl](http://www.elmetron.pl) e-mail: info@elmetron.com.pl