



## LABORATORY PH / ION METERS CPI-501 AND CPI-502

- Laboratory meters in benchtop housing, powered with 12V power adapter.
- Accurately measure: pH, Redox (mV) ion-selective measurements in pX, g/l, M/l, or ppm and temperature.
- Enable ion concentration measurements of monovalent, bivalent, negative and positive ions.
- May cooperate with all ion selective electrodes (ISE) chosen depending on the kind of measured ion equipped with BNC 50 connector.
- Depending on the kind of used pH electrode may be used for clean water, sewage, soil measurements etc.
- The **CPI-502** meters have built in thermal printer.
- Meter stores independently 3 characteristics of pH electrodes and 3 characteristics of ion selective electrodes.
- Calibration of the electrode: 1 ÷ 5 points.
- Automatic pH buffer detection, their value may be set by the user.
- Automatic correction of the temperature influence on sample solution (NIST) value.
- Automatic checking of the condition of electrode's membrane.
- In ion meter possibility of measurement in: pX, g/l, M/l or ppm units with automatic conversion when changing the units.
- Possibility of introducing freely chosen values of ion sample solutions.



- Automatic and manual temperature compensation.
- Internal clock with date.
- Internal datalogger for up to 200 sets of results collected in series or single with temperature time and date.
- The results and calibration data are stored in non-volatile memory.
- RS-232 output for connecting with a PC and Centronics for standard printer.
- 24 months warranty for the meter.

Function	pH	mV	Ion M/l	Ion g/l	Ion ppm	Ion pX	°C
Range	-2.00 ÷ 16.00	±1000 mV	0 ÷ 100	0 ÷ 1000	0 ÷ 1 000 000	-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	$10^{12} \Omega$						
Temp. compens. range	-5 ÷ 110.0 °C						
Dimensions (mm)	L=200, W=180, H=20/50						
Weight	CPI-501 - 590 g, CPI-502 - 695 g						
Printer	CPI-501 - without, CPI-502 – thermal 60 mm width.						

\* The total error of temperature measurement depends on the kind of used probe