

WATERPROOF pH / CONDUCTIVITY / SALINITY METER CPC-401

- The meter is used for highly accurate pH, ORP (mV), conductivity, salinity, TDS and temperature measurements.
- Meter is equipped with easy to read backlight LCD display with brightness control.
- Waterproof housing makes working in difficult conditions easier.
- Low weight and size make working in the field easier.

In the pH measuring function:

The pH and conductivity measurement circuits are isolated

- Calibration in 1÷5 points.
- Automatic detection of buffer solutions, their values may be changed by the user in given range.
- Automatic correction of the pH sample solution value changes along with the temperature changes for NIST standards.
- Automatic or manual temperature compensation.
- Storing of 3 pH electrodes characteristics enables their fast replacing – very useful feature during field work.
- Automatic control of the electrode's membrane condition.
- Precise ORP (redox) measurement (accuracy 0.1 mV).

In the conductivity measurement function:

- The whole measuring range enables measurements both of ultra pure water and very salty solutions.
- 6 ranges switched automatically.
- Works with conductivity cells equipped with platinum electrodes.
- Calibration by entering the constant K in range 0.01÷19.999 or in buffer solution.
- In the memory possibility of storing of 3 constant K of the cells which cover whole measuring range.
- Wide range of α coefficient 0÷10 % / °C chosen depending on the measured solution.
- Possibility of changing the reference temperature.
- Automatic calculating the salinity in NaCl or KCl on the basis of real characteristics, what greatly increases the accuracy.
- Possibility of defining the TDS with use of conductivity measurement by entering the TDS coefficient in range 0.2÷1.0.
- Possibility of electric admittance measurement of tree seedlings – checking the vitality of seedlings after purchasing special sensor.



- Internal clock with date.
- Internal datalogger enables storing of 950 measurements taken as single or series with time, temperature and date.
- The results and calibration data are stored in nonvolatile memory.
- RS-232 output or USB using an adapter for connecting with a PC.
- Powered by rechargeable battery, with internal charging or power adapter.
- The meters meets the GLP requirements.
- 24 months warranty for the meter.

Function	pH, mV	Conductivity	Temperature
Range	-2.000 ÷ 16.000 pH, ±1999,9 mV**	0 ÷ 1999.9 mS/cm, autorange	-50.0 ÷ 199.9 °C
Accuracy (± 1 digit)	±0.002 pH; ±0.1 mV	0.1%; > 20 mS/cm: 0.25%	±0.1 °C*
Temp. compens.	-5 ÷ 110.0 °C	-5 ÷ 70 °C	-
K constant range	-	0.01 ÷ 19.999 cm ⁻¹	-
Input impedance	10 ¹² Ω	-	-
Temp. probe	Pt-1000 standard or accurate		
Dimensions (mm)	L = 149; W = 82; H = 22		
Weight	CC-401 220 g	CPC-401 229 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

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