

WATERPROOF CONDUCTIVITY / SALINITY METER CC-401

Used for highly accurate conductivity, resistivity, salinity and temperature measurements. The most recent model has been modified, what results in offering new functions which make working easier, ensure higher accuracy and fulfil more requirements.

- Wide measuring range enables measurements in ultra pure water, natural water, saline and chemical compounds.
- "HOLD" function to freeze the result on the display.
- Signalisation of the result stabilisation with a "READY" symbol and a sound.
- Possibility of sending a calibration report to a PC - up to 10 last calibrations.
- Equipped with an easy-to-read backlight LCD display with brightness control.



- Salinity measurement in NaCl or KCl.
- Defining the TDS (Total Dissolved Solids) based on conductivity measurement.
- 6 sub-ranges switched automatically.
- Wide range of α coefficient chosen depending on the measured solution.
- In case of measurements of natural water with conductivity from 60 $\mu\text{S}/\text{cm}$ to 1 mS/cm the meter enables using non-linear temperature compensation. The parameters of this type of water are determined in the EN27888:1999 norm and concern surface water, deep water and well water. This solution lowers the measurement error.
- The measurement accuracy of ultra pure water with temperature compensation has been increased by automatic adjustment of the α coefficient depending on the kind of trace contaminations and temperature.

- Calibration by entering the constant K of the cell or in standard solutions in 1 to 5 points.
- Possibility of changing the reference temperature value.
- Ability to store constants K of three cells, which cover the whole conductivity range.
- Automatic calculation of conductivity into salinity in NaCl or KCl on the basis of the real characteristics instead of a constant coefficient, what greatly increases accuracy.
- Newly introduced function is the resistivity measurement of the tested liquid.
- Possibility to measure electric admittance of tree seedlings – checking the vitality of seedlings with a special sensor.
- Internal clock with date.
- Internal data-logger - storing up to 4000 measurements taken singly or in series with time, temperature and date all data stored in non-volatile memory. Software for data transmission and collection delivered in the set.
- Storing the date of next calibration and signalling it to the user.
- Possibility of connecting with a PC by a micro USB connector.
- Change of the date protected by a password
- The data transmission software enables printout of the data in a form protected against any changes.
- Powered with rechargeable batteries, or power adapter with USB-micro / USB cable.
- Used for work in the field and in the laboratory.
- Waterproof housing (IP-66) facilitates work in difficult conditions.
- Small size and low weight make work in the field easier.
- 24 months of warranty for the meter.
- The meter meets the GLP requirements.
- The **CC-401** conductivity meter was awarded with a golden medal on international fairs **EUROLAB**.

The set includes **CT2B-121** temperature probe with **Pt-1000B** resistor and accurate **ECF-1** conductivity cell. Measuring range: 0 ÷ 400 mS/cm is sufficient for conductivity measurements in majority of liquids of maximal concentration, e.g. aqueous soil extracts and water with grease or oil. Metal electrodes are easy to clean. Plastic housing protects from mechanical damage.

TECHNICAL DATA

Function	Conductivity	Salinity	Resistivity	Temperature
Range	0 ÷ 1999.9 mS/cm, autorange - 6 subranges	NaCl 0 ÷ 296 g/l KCl 0 ÷ 239 g/l	0.500Ωcm ÷ 200MΩcm	-50.0 ÷ 199.9 °C
Accuracy (± 1 digit)	up to 19.999 mS/cm ±0.1%*; above 20.00 mS/cm: ±0.25%*	± 2.00%*	± 2%* of measured value	±0.1 °C**
Temp. compensation	-5 ÷ 70 °C	-5 ÷ 70 °C	-5 ÷ 70 °C	-
α coefficient range	0 ÷ 10.00 %/ °C	0 ÷ 10.00 %/ °C	0 ÷ 10.00 %/ °C	-
Power	Rechargeable batteries: 2x AA 1,2 V , 5 V/1000 mA microUSB power adapter			
Dimensions	L = 149, W = 82, H = 22			
Weight	220 g			

*The accuracy of the meter only.

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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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