

LABORATORY CONDUCTIVITY / SALINITY METER CC-502

Measures conductivity, salinity, resistivity and temperature. Full conductivity measuring range enables measurements in clear water as well as in high concentration samples. The most recent version of this model has been updated and has more possibilities which facilitate usage and increase accuracy.

Characteristic Features:

- Built-in thermal printer (60 mm).
- Easy-to-read backlight LCD with brightness control.
- Enables measurements in ultra pure water as well as saline water.
- The most recent version of this model has been updated and has more possibilities which facilitate usage and increase accuracy.
- "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.
- 6 sub-ranges switched automatically.
- Calibration by entering the K constant of the cell in the range $0.010 \div 19.999 \text{ cm}^{-1}$ or in standard solution in 1 to 5 points.
- Ability to store constants K of three cells, which cover the whole conductivity range.
- Wide range of α coefficient chosen depending on the kind of measured solution.
- Possibility of changing the reference temperature.
- Automatic or manual temperature compensation.
- Converting conductivity into salinity in NaCl or KCl based on the real characteristics instead of a constant coefficient what greatly increases accuracy.
- Possibility to determine the TDS by entering the TDS coefficient in the range 0.2 to 1.0.
- In case of measurements of natural water with conductivity from $60 \mu\text{S/cm}$ to 1 mS/cm the meter enables using non-linear temperature compensation. The parameters of this type of water are determined by 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 improved by automatic adjustment of the α coefficient depending on the kind of trace contamination and temperature.
- Internal clock with date.
- Internal datalogger enables storing up to 4000 measurements taken in series or singly with temperature, time and date.
- Storing the next calibration date.
- USB output.
- Change of the date protected by a password
- The data transmission software enables printout of the data in a form protected against any changes.
- The meter meets the **GLP** requirements.
- 24 months of warranty for the meter.
- Pendrive with software for data transmission and collection and user's manual in English included in the set.

The set includes **CT2B-121** temperature probe with **Pt-1000B** resistor and accurate **ECF-1** conductivity cell. Measuring range: $0 \div 400 \text{ mS/cm}$ 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.

In comparison with the **CC-505** meter, the **CC-502** model is equipped with a smaller display.



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)	< 19.999 mS/cm ± 0.1%*; > 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 %/°C	0 ÷ 10 %/°C	0 ÷ 10 %/°C	-
K constant range	0,010 ÷ 19,99 cm ⁻¹	0,010 ÷ 19,99 cm ⁻¹	0,010 ÷ 19,99 cm ⁻¹	-
Printer	thermal, width = 60 mm			
Power	6 V / 2 A power adapter			
Weight	650 g			
Dimensions	L = 200, W = 180, H = 20/50			
PC connection	USB			

*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.

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