

## WATERPROOF CONDUCTIVITY / SALINITY METER CC-411

**CC-411** measures conductivity, salinity, TDS and temperature. May be used in the field and laboratory.

- Measures conductivity in liquids with conductivity up to 200 mS/cm.
- The display enables simultaneous readout of the measured function and temperature.
- Low weight and small dimensions facilitate working in the field.
- Waterproof housing (IP-66) facilitates working in difficult conditions.
- 4 sub ranges switched automatically (autorange).
- Measures salinity with conversion to NaCl up to 70 g/l and KCl up to 140 g/l.
- Converts conductivity into salinity according to real characteristics and not a constant coefficient.
- Determines estimated value of the total dissolved solids (TDS).
- Calibration by entering the constant K of the cell or by determining it with use of a standard solution.
- Automatic temperature compensation.
- Constant  $\alpha$  coefficient (temperature coefficient) – 2 %/°C. For precise measurements with temperature compensation it is recommended to use meters of 401 or 461 series.
- The reference temperature is 25°C or 20°C (e.g. for measurements in honey).
- Memory of 50 results.
- Possibility to make measurements of electric admittance of tree seedlings (determining the vitality of seedlings with a special sensor).



- Automatic switch-off function saves the battery and protects it against discharging.
- Warranty for the meter: 24 months.
- The user's manual in English on CD added to the set.

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	Temperature
<b>Range</b>	0 ÷ 199.9 mS/cm, autorange - 4 subranges	NaCl 0 ÷ 177.9 g/l	-50.0 ÷ 199.9 °C
<b>Accuracy (± 1 digit)</b>	±0.25 %*	±2%*	±0.1 °C**
<b>Temperature compensation</b>	-5 ÷ 70 °C	-5 ÷ 70 °C	-
<b>α coefficient</b>	constant 2 %/°C	constant 2 %/°C	-
<b>K constant</b>	0.010 ÷ 1.999 cm <sup>-1</sup>	-	-
<b>Temperature sensor</b>	Pt-1000B		
<b>Power supply</b>	9 V battery, 12 V power adapter as option		
<b>Dimensions (mm)</b>	L = 149; W = 82; H = 22		
<b>Weight</b>	220 g		

\*The accuracy of the meter only.

\*\*The accuracy of the meter only. The total error includes the meter's 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.