

Измерители проводимости/солености СС-404

Технические характеристики

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WATERPROOF CONDUCTIVITY / SALINITY METER CC-404

The meter cooperates with four-electrode conductivity cell – its construction enables long-lasting work in liquid with sediment, oil and grease, saltwater or municipal waste. **Frequent cleaning of the cell's electrodes is not required.** It is not recommended for measurements in ultra pure water.

CC-404 is applied for highly accurate conductivity, resistivity, salinity and temperature measurements. It may be used in the field as well as in laboratory.



Characteristic features

- The measuring range enables measurements in natural water, drinking water, beer, juice, saline and municipal waste.
- Equipped with an easy-to-read backlight display with brightness control.
- Signalisation of the result stabilisation with a "READY" symbol and a sound.
- "HOLD" function to freeze the result on the display.
- Salinity measurement in NaCl or KCl.
- Defining the TDS (Total Dissolved Solids) based on conductivity measurement.
- 5 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.
- Calibration by entering the constant K of the cell or in standard solutions in 1 to 5 points.
- Possibility of sending a calibration report to a PC - up to 10 last calibrations.
- 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.
- The meter enables resistivity measurement of the tested liquid.

- Internal clock with date.
- Internal datalogger - storing up to 4000 measurements taken singly or in series with time, temperature and date.
- Storing the next calibration date.
- 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 cable.
- 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 set includes **ECF-4t** four-electrode conductivity cell with built-in temperature sensor, case for the meter and accessories and pendrive with manual and software for collecting the data on the PC.

The range of **ECF-4t**: $10 \mu\text{S}/\text{cm} \div 300 \text{ mS}/\text{cm}$ is sufficient for conductivity measurements in majority of liquids apart from the ultra pure water. Metal electrodes are easy to clean. Plastic housing protects from mechanical damage.



Technical Data

Function	Conductivity	Salinity	Resistivity	Temperature
Range	$10 \mu\text{S} \div 300.0 \text{ mS}/\text{cm}$, autorange - 5 subranges	NaCl $0 \div 296 \text{ g/l}$ KCl $0 \div 223 \text{ g/l}$	$0.500 \Omega\text{cm} \div 100 \text{ M}\Omega\text{cm}$	$-50.0 \div 80.0 \text{ }^{\circ}\text{C}$
Accuracy (± 1 digit)	up to $19.999 \text{ mS}/\text{cm}$ $\pm 0.1\%^{*}$; above $20.00 \text{ mS}/\text{cm}$: $\pm 0.25\%^{*}$	$\pm 2.00\%^{*}$	$\pm 2\%^{*}$ of measured value	$\pm 0.1 \text{ }^{\circ}\text{C}^{**}$
Temp. compensation	$-5 \div 70 \text{ }^{\circ}\text{C}$			-
K constant	$0.010 \div 19.999 \text{ cm}^{-1}$			-
α coefficient range	$0 \div 10.00 \text{ } \%/^{\circ}\text{C}$			-
Power	Rechargeable batteries: 2x AA 1,2 V , 5 V/1000 mA USB power adapter			
Dimensions (mm)	L = 149, W = 82, H = 22			
Weight	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 $0 \div 100 \text{ }^{\circ}\text{C}$ the acceptable error of the probe with Pt-1000B resistor: $\pm 0,8 \text{ }^{\circ}\text{C}$, with Pt-1000A resistor: $\pm 0,35 \text{ }^{\circ}\text{C}$.

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