

## Conductivity meter CC-661

**CC-661** belongs to the newest generation of measuring equipment. It is distinguished by a large a 5" colour graphic touch screen.

The meter can be used for accurate measurements of conductivity, salinity, TDS, resistivity and temperature.

This meter enables simultaneous measurements displaying and storing of 2 functions (conductivity and temperature).



### Characteristic features:

- Wide measuring range enables measurements in ultra pure water as well as in high conductivity solutions.
- 6 sub-ranges switched automatically.
- The first sub range 0 to 20  $\mu\text{S}/\text{cm}$  enables measurements of pure water with resolution up to the 3<sup>rd</sup> decimal place.
- In case of measurements of natural water with conductivity from 60  $\mu\text{S}/\text{cm}$  to 1  $\text{mS}/\text{cm}$  the meter enables using non-linear temperature compensation. The parameters of this type of water are determined in the norm EN27888:1999 and concern surface water, deep water and well water. This function lowers the measurement error.
- The measurement accuracy of the ultra pure water with temperature compensation was increased by automatic adjustment of the temperature  $\alpha$  coefficient depending on the temperature and kind of trace contaminations.
- The reference temperature may be chosen between 25°C and 20°C.

- Calibration by entering the constant K in range  $0.010 \div 20.000 \text{ cm}^{-1}$  or in standard solutions in 1 to 3 points.
- Wide range of  $\alpha$  coefficient  $0 \div 10 \text{ \%} / \text{ }^\circ\text{C}$  chosen depending on the measured solution.
- 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 the accuracy.
- Possibility of defining the TDS with entering the TDS coefficient in range  $0.2 \div 1.0$ .
- Resistivity measurement function.
- Memory of 3 conductivity cells constant K values enables fast replacing in case of measurements in different ranges.

#### Other features:

- Internal clock with date.
- Collecting up to 500 data sets in the internal data-logger with temperature, time and date, single collecting and taking series of measurements of all measured functions.
- Non-volatile memory of the stored results and calibration data
- HOLD function to freeze the actual measurements results on the screen.
- Stabilised reading signalisation.
- Storing the calibration validity date and signalling it to the user.
- Possibility of choosing the language of the displayed information : English, German, French, Italian, Spanish, Portuguese.
- Possibility of connecting with a PC by a USB connector
- Software for data transmission and collection delivered in a set.
- Up to 10 last Calibration Reports transfer to a PC for printout.
- Powered with 5V/1000mA USB power adapter.
- The meter meets the GLP requirements.
- 24 months of warranty for the meter.
- IP64 ingress protection.

#### TECHNICAL DATA

Function	Conductivity	Salinity	Resistivity	Temperature
<b>Range</b>	$0 \div 1000.0 \text{ mS/cm}$	KCl $0 \div 239 \text{ g/l}$ , NaCl $0 \div 296 \text{ g/l}$	$0.500 \text{ }\Omega\text{cm} \div 200 \text{ M}\Omega\text{cm}$	$-50.0 \div 200.0 \text{ }^\circ\text{C}$
<b>Accuracy (<math>\pm 1</math> digit)</b>	to $19.999 \text{ mS/cm} \pm 0.20\%$ , from $20.00 \text{ mS/cm} \pm 0.35\%$ *	$\pm 2 \text{ \%}$ *	$\pm 2 \text{ \%}$ of measured value	$\pm 0.1 \text{ }^\circ\text{C}^{**}$
<b>Temperature compensation</b>	$-5 \div 70 \text{ }^\circ\text{C}$	$-5 \div 70 \text{ }^\circ\text{C}$	$-5 \div 70 \text{ }^\circ\text{C}$	-
<b><math>\alpha</math> coefficient</b>	$0.00 \div 10.00 \text{ \%}/^\circ\text{C}$	$0.00 \div 10.00 \text{ \%}/^\circ\text{C}$	$0.00 \div 10.00 \text{ \%}/^\circ\text{C}$	-
<b>Constant K</b>	$0.010 \div 20.000 \text{ cm}^{-1}$			-
<b>Power</b>	Power adapter 5V 1000mA			
<b>Size / weight</b>	175 x 140 x 52 mm / 420g			

\* Accuracy of the meter.

\*\* Accuracy of the meter, total accuracy is a sum of meter and temperature sensor accuracy.

In the range  $0 \div 100 \text{ }^\circ\text{C}$  the maximal acceptable error of the used temperature sensor with Pt-1000S  $\pm 0.27 \text{ }^\circ\text{C}$ .

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