CONDUCTIVITY METER CC–660

The **CC-660** conductivity meter belongs to the newest generation of measuring equipment. It is distinguished by high measurement's accuracy, a large 5" colour graphic touch screen and additional features which make working easier.

Features:

- Designed for measurements of conductivity, salinity, resistivity, TDS and temperature.
- Enables simultaneous measurement and displaying of results of conductivity or salinity or resistivity or TDS and temperature.

- A wide conductivity measurement range allows for the measurement of both ultra-pure waters and high salinity liquids.
- 6 measurement subranges are automatically switched.
- The first subrange, 0 to 20 µS/cm, enables measurements of re-distilled water with resolution down to three decimal places.
- **The meter allows for automatic temperature coefficient substitution when measuring surface, deep, and well waters with conductivity ranging from 60 µS/cm to 1 mS/cm, what significantly simplifies the work.**
- **Increased accuracy of ultra-pure water measurements with temperature compensation is achieved by automatic adjusting of the α coefficient depending on the temperature and type of trace contaminants.**
- Memory of parameters and the last calibration date of three conductivity cells.
- Possibility of entering the reference temperature within the range of 0 - 40ºC.
- Three calibration types:
  - in standards at the reference temperature;

- in standards at the current reference temperature - for selected types of standards, what does not require heating or cooling;
- by entering the K constant within the range of 0.010 - 20.000 cm-1.

- Calibration results for three conductivity sensors may be stored in memory.
- Wide range of the α temperature coefficient (0.00 - 10.00%/ºC) can be entered depending on the tested liquid.
- Ability to enter a reference temperature within the range of 0 to 40°C.
- Conversion of conductivity to salinity in NaCl and KCl based on the real characteristic, not on constant coefficient, what significantly increases the accuracy.
- Measurement of salinity in TDS (Total Dissolved Solids) by entering a TDS coefficient in the range 0.2 to 1.0.

Other parameters

- Temperature measurement using a CT2S-121 sensor with a selected Pt-1000S resistor – with higher accuracy.
- Clock function with date.
- Collecting up to 2000 data sets in the internal data-logger with temperature, time and date, single collecting and also taking series of measurements with given time interval possible – all measured functions are stored. In case of collect series exceeding the memory capacity, the included computer software may be used.
- "HOLD" function allows you to freeze the actual results displayed on the screen.
- Signalisation of a stabilised measurement result.
- Non-volatile memory of the stored results and calibration data.
- Built-in USB interface allows you to transfer results stored in the device's memory or currently measured to a PC.
- Ability to transfer a report from the last ten calibrations to a computer.
- Exceeding the calibration due date notification.
- Selectable languages: Polish, English, German, French, Italian, Spanish, and Portuguese.
- The device meets the GLP requirements.
- 24-month warranty.
- IP64 protection class.

A CT2S-121 temperature sensor with a Pt-1000S resistor and a power adapter are included in the standard set.

The device can be equipped with conductivity sensors suitable for the tested liquids, such as:

ECF-1 with a wide linearity range and metal electrodes;
EC-201t platinum for re-distilled and distilled water;
EC-210 for high concentrations above 400 mS/cm.

Technical data of the conductivity, salinity and resistivity function

Function	Conductivity	Salinity	Resistivity	Temperature
Range	0 ÷ 2000.0 mS/cm	KCl 0 ÷ 239 g/l, NaCl 0 ÷ 296 g/l	0.500 Ωcm ÷ 200 MΩcm	-50.0 ÷ 200.0 ºC
Accuracy (± 1 digit)	to 19.999 mS/cm ±0.1%, from 20.00 mS/cm ±0.25%*	±2 %*	±2% of measured value	±0.1 ºC**
Temperature compensation	-5 ÷ 70 ºC	-5 ÷ 70 ºC	-5 ÷ 70 ºC	-
α coefficient	0.00 ÷ 10.00 %/ºC	0.00 ÷ 10.00 %/ºC	0.00 ÷ 10.00 %/ºC	-
constant K	0.010 ÷ 20.000 cm^{-1}			-
Power	5V / 1000 mA power adapter			
Dimensions	175 x 140 x 52 mm			
Weight	420 g			

* Accuracy of the meter.

** Accuracy of the meter, total accuracy is a sum of the meter and temperature sensor accuracy.
In the range 0 ÷ 100 ºC the maximal acceptable error of the used temperature sensor with PT-1000S resistor ±0.1 ºC.

ELMETRON® Sp.j.
41-814 Zabrze, ul. W. Witosa 10, Poland
tel. +48 32 273 81 06
info@elmetron.com.pl, www.elmetron.pl