WATERPROOF MULTIFUNCTION METER CX-461

- CX-461 belongs to the newest generation of meters.
- It is distinguished by a large 3,2" colour graphic touch screen.
- The meter i designed for accurate measurements of : pH, redox potential (mV), conductivity, salinity, TDS, dissolved oxygen, atmospheric pressure and temperature.
- CX-461 enables simultaneous measurement of 1 to 4 functions with displaying their results on the screen at one time.
- It is possible to buy a multifunction (multiparameter) head with electrodes for simultaneous measurement of few different functions, or single electrodes for measurements of the chosen function.
- Possibility of setting the order of displaying the measured functions on the screen.
- The meter may be used for the field measurements as well as during accurate laboratory work.
- Low weight and small size make working in the field easier.
- Waterproof housing (IP-66) enables working in difficult conditions.

In the pH and mV measurement function:

- The pH and conductivity measurement circuits are isolated one from another.
- Depending on the kind of applied electrode it may be used for clean water, sewage, soil, pastes measurements etc.
- Calibration of the pH electrode in 1 ÷ 5 points.
- Automatic detection of buffer solutions, their values may be set by the user.
- Automatic correction of the pH sample solution value changes along with the temperature changes for NIST standards.
- Possibility of storing characteristics of 3 pH electrodes enables their quick replacing very useful feature during field work.
- Automatic control of the electrode's condition.
- Precise Redox potential measurement (accuracy 0.1mV).

In the conductivity measurement function:

- Full measuring range enables measurements in ultra pure water as well as in very salty solutions.
- 6 sub-ranges switched automatically.
- Works with conductivity cells equipped with platinum electrodes.
- Calibration by entering the constant K in range 0.01÷19.999 cm⁻¹ or in buffer solution.
- Possibility to store constants K of 3 cells which cover whole measuring range.
- Wide range of α coefficient 0÷10 % / °C chosen depending on the measured solution.
- Possibility of changing the reference temperature.
- Automatic calculation of conductivity into salinity in NaCl or KCl on the basis of the actual characteristics instead of a constant coefficient, what greatly increases accuracy.
- Possibility of defining the TDS with entering the TDS coefficient in range 0.2 ÷ 1.0.

In the atmospheric pressure measurement function

· Possibility of continuous observation of atmospheric pressure value on the meter's screen.

In the dissolved oxygen measurement function:

- Automatic calculation of atmospheric pressure influence on dissolved oxygen measurement value.
- Automatic transfer of the salinity measured in the conductivity mode to the oxygen measurement mode with calculation of its influence on the oxygen content value.
- Easy in use and maintenance galvanic oxygen sensor.
- 1 or 2 point oxygen sensor calibration.
- Wide measuring range enables measurements in lakes with blooming vegetation.

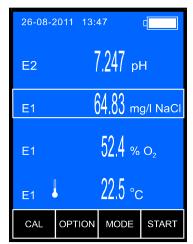
Other features:

- Internal clock with date.
- Collecting up to 2000 data sets in the internal datalogger with temperature, time and date, single collecting and also taking series of measurements possible with time and date all measured functions are stored.
- · Non-volatile memory of the stored results and calibration data
- Storing the date of next calibration and remembering it in the right moment to the user.
- Possibility of choosing the language of the displayed information: Polish, English or German.

- Powered by rechargeable batteries 2 x AA (1.5V), or by power adapter with internal charging of batteries.
- Continuous work time without charging up to 81 hours depending on the chosen function and set brightness of the screen.
- Connecting with a PC by RS-232 or USB output using an adapter (optional).
- The meter is sold with the temperature sensor, other types of electrodes, cells and sensors should be chosen and ordered separately.
- The meter meets the GLP requirements.
- 24 months of warranty for the meter.







Technical Data

Function	рН	mV	Conductivity, salinity	O ₂ (mg/l)	O ₂ (%)	Temperature
Range	- 2.000 ÷ 16.000 pH	±1999.9 mV	0 ÷ 1999.9 mS/cm 0 ÷ 200 g/l KCl 0 ÷ 250 g/l NaCl	0 ÷ 60 mg/l	0 ÷ 600%	-50.0 ÷199.9 °C
Accuracy (± 1 digit)	±0.002 pH	±0.1 mV	±0.1% > 20 mS/cm: ±0,25%	±0.1 mg/l	±1%	±0.1 °C*
Temp. Compens	-5 ÷ 110 °C	-	-5 ÷ 70 °C	0 ÷ 40 °C	0 ÷ 40 °C	-
Input impedance	$10^{12}\Omega$	$10^{12}\Omega$	-	-	-	-
Atmospheric Pressure range.	800 ÷ 1100 hPa					
Dimensions (mm)	L=149 W=82 H=22					

^{*} Accuracy of the meter. The total error is a sum of meters error and the applied probe error.



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