

## LABORATORY pH / CONDUCTIVITY / SALINITY METER CPC-502

- Laboratory meter in benchtop housing, powered with 12V power adapter.
- The meter has built in thermal printer (60mm).
- Accurately measures: pH, Redox potential (mV), conductivity, salinity, TDS and temperature.

### In the conductivity measuring function

- Thanks to a wide conductivity measuring range it may be used for both ultra pure water and very salty samples measurements.
- 6 ranges switched automatically.
- Calibration by entering the constant K in range  $0.010 \div 19.999 \text{ cm}^{-1}$  or in sample solution.
- Storing of 3 constant K of cells which cover the whole measuring range.
- Wide range of  $\alpha$  coefficient depending on the measured solution ( $0 \div 10\% / ^\circ\text{C}$ ).
- Possibility of changing the reference temperature.
- Converting the conductivity to salinity according to real characteristics for NaCl and KCl and not constant value what greatly increases the accuracy.
- Possibility of determining the TDS.

### In pH measuring function

- The pH measuring circuit is isolated from the conductivity measuring circuit – no interference.
- Depending on the kind of applied pH electrode it may be used for clean water, sewage, soil measurements etc.
- Calibration of the pH electrode:  $1 \div 5$  points.
- Automatic buffer detection, its value can be set by the user.
- Automatic correction of the pH sample solution value change with the temperature changes (for NIST samples).
- Storage of 3 electrodes characteristics enables to replace them quickly.
- Automatic evaluation of the pH electrode condition.
- Precise Redox potential measurement (accuracy 0.1 mV).



### Other features

- Automatic or manual temperature compensation.
- The meter has an internal clock with date.
- The date of calibration of each electrode or sensor stored by the meter, with possibility of signalling moment when next calibration should be done.
- Internal datalogger for up to 950 sets of results collected in series or singly with temperature time and date.
- The results and calibration data are stored in non-volatile memory.
- RS-232 output or optional USB adapter for connecting with a PC and Centronics for standard printer.
- The meter meets the GLP requirements
- 24 months of warranty for the meter.

In comparison with the meters of 505 series the display is smaller and without backlight.

Function	Conductivity	Salinity	pH	mV	Temperature
<b>Range</b>	0 ÷ 1999.9 mS/cm, autorange	NaCl 0 ÷ 250 g/l KCl 0 ÷ 200 g/l	-2.000 ÷ 16.000 pH	±1999.9 mV	-50.0 ÷ 199.9 °C
<b>Accuracy (± 1 digit)</b>	±0.1%; > 20 mS/cm: ±0.25%		±0.002 pH	±0.1 mV	±0.1 °C*
<b>Temp. Compensation</b>	-5 ÷ 70 °C	-5 ÷ 70 °C	-5 ÷ 110.0 °C		-
<b>Input impedance</b>	-	-	10 <sup>12</sup> Ω	10 <sup>12</sup> Ω	-
<b>Power</b>	Power adapter 12V				
<b>Temp. sensor</b>	Pt-1000 standard or accurate				
<b>Dimensions (mm) / Weight</b>	L = 200; W = 180; H = 20/50 / 680 g				

\* Accuracy of the meter. The total error is a sum of the applied probe error and the meter's error.

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