

## OXYGEN METER CO-502, pH / OXYGEN METER CPO-502 CONDUCTIVITY / SALINITY / OXYGEN METER CCO-502

- Laboratory meters in benchtop housing, powered by 12V power adapter.
- Each of the models measures oxygen dissolved in water and sewage in % of saturation or in mg/l, temperature and air pressure.
- The meters are equipped with built-in thermal printer (60 mm).
- The **CCO-502** model additionally measures conductivity and salinity.
- The **CPO-502** model additionally measures pH and redox potential.
- The operating procedures in all measuring functions has been unified, what makes working trouble-free.

### Dissolved oxygen measurement function:

- Galvanic dissolved oxygen sensor.
- Each of the models is equipped with a function of automatic atmospheric pressure measurement with calculation of its influence on the oxygen measurement readout in mg/l.
- The meter with dissolved oxygen sensor are easy to operate.
- Calibration of the oxygen sensor in 1 or 2 points.
- Automatic or manual temperature compensation.
- The **CO-502** meter has a possibility of introducing the salinity value with automatic calculation of its influence on the result of oxygen measurement.
- **CCO-502** model automatically counts the influence of salinity measured in the conductivity mode on the oxygen measurement result.



The outside look of the meters almost identical – differences in number of buttons and colours.

**Conductivity measurement in CCO-502:**

- Full conductivity measuring range enables measurements in ultra pure water as well as saline.
- 6 sub-ranges switched automatically.
- Calibration by entering the constant K in range 0.01÷19.999 cm<sup>-1</sup> or in standard solutions.
- Possibility to store constants K of three cells, which cover the whole conductivity range.
- Wide range of  $\alpha$  coefficient (0÷10% / °C) chosen depending on a kind of measured liquid.
- Possibility of changing the reference temperature.
- Converting the conductivity into salinity according to the real characteristics for NaCl and KCl, what greatly increases accuracy.
- Possibility of determining the TDS by entering the TDS coefficient.

**pH measuring function in CPO-502:**

- Calibration in 1÷ 5 points.
- Automatic detection of the buffer solutions' values entered by the user.
- Automatic correction of the standard solution's pH value changes along with the temperature changes for NIST standards.
- Storing of 3 pH electrodes characteristics enables to replace them quickly – very useful feature during field work.
- Automatic evaluation of the electrode's condition.
- Depending on the chosen electrode, the measurement may be made in pure water, sewage, soil, etc.
- Precise redox potential determination (accuracy 0.1 mV).

**Other features**

- Automatic or manual temperature compensation.
- Remembers the next calibration date.
- Internal clock with date.
- Internal datalogger enables storing up to 950 measurements taken as single or in series with time, temperature and date.
- The results and calibration data are stored in non-volatile memory.
- Connecting with PC possible with use of RS-232 cable or – optionally – by USB adapter.
- 24 months of warranty for the meter.
- The meter is equipped with smaller display than the meters of 505 series and does not have a backlight.

Function	O <sub>2</sub> (mg/l)	O <sub>2</sub> (%)	temp.	pH (CPO)	mV (CPO)	Conductivity, salinity (CCO)
<b>Range</b>	0 ÷ 60 mg/l	0 ÷ 600%	-50.0 ÷ 199.9°C	- 2.000 ÷ 16.000pH	1999.9mV	0 ÷ 1999.9 mS/cm, 0 ÷ 200 g/l KCl, 0 ÷ 250 g/l NaCl
<b>Accuracy (± 1 digit)</b>	±0.1 mg/l	±1%	±0.1 °C (the meter*)	±0.002 pH	±0.1 mV	±0.1% > 20 mS: ±0,25%
<b>Temp. compensation</b>	0 ÷ 40 °C	0 ÷ 40 °C	-	-5 ÷ 110 °C		-5 ÷ 70 °C
<b>Input impedance.</b>				10 <sup>12</sup> Ω	10 <sup>12</sup> Ω	
<b><math>\alpha</math> coefficient</b>						0.00 ÷ 10.00 %/ °C
<b>Atmospheric pressure meas.</b>	800 ÷ 1100 hPa					
<b>Power supply</b>	12V power adapter					
<b>Dimensions (mm)</b>	L = 200; W = 180; H = 20/50					

\* Accuracy of the meter. The final accuracy is dependent on type of the chosen probe.

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