

LABORATORY MULTIFUNCTION METER CX-505

- The meter includes all functions of pH meters, conductivity meters and oxygen meters of the 505 series.
- **CX-505** measures pH, redox potential (mV), conductivity, salinity, TDS, oxygen dissolved in water in % of saturation or in mg/l, atmospheric pressure and temperature.
- The measurements made in all measuring functions are of very high accuracy and stability.
- The operating procedures in all measuring functions has been unified, what makes working trouble-free.



In the pH measuring function:

- Calibration of the pH electrode: 1÷5 points.
- Automatic detection of the buffers' value entered by the user.
- Automatic correction of the temperature influence on sample solution (NIST) value.
- Possibility to store characteristics of 3 electrodes makes changing them easy.
- Automatic evaluation of the electrode's condition.
- Depending on the chosen electrode possible measurements in pure water, sewage, pastes, etc.
- Precise redox potential determination (accuracy 0.1 mV).

In the conductivity measuring mode:

- Full conductivity measuring range enables making measurements in ultra pure water as well as in saline water.
- 6 subranges switched automatically.
- Possibility of changing the reference temperature.
- Works with conductivity cells equipped with platinum electrodes.
- Calibration by entering the constant K in range $0.010 \div 19.999 \text{ cm}^{-1}$ or in sample solutions.
- Storing constants K of 3 cells which cover the whole measuring range.
- Wide range of α coefficient chosen regarding the kind of measured liquid.
- Converting conductivity into salinity according to the actual characteristics and not a constant coefficient.
- Possibility of defining approximate TDS with use of conductivity measurement.

In the dissolved oxygen measurement mode:

- Air pressure measurement with automatic calculation of its influence on the oxygen measurement value.
- Possibility to automatically introduce salinity value in the oxygen measurement mode and calculate its influence on the oxygen concentration value.
- Easy in use galvanic oxygen sensor.
- 1 or 2 point oxygen sensor calibration.
- Wide measuring range.

Other features:

- Automatic or manual temperature compensation.
- Internal clock with date.
- Internal datalogger enables storing up to 4000 measurements taken as single or in series with time, temperature and date.
- The results and calibration data are stored in non-volatile memory.
- Remembers the next calibration date.
- USB output for connecting with PC.
- The meter meets the GLP requirements.
- 24 months of warranty for the meter.

Function	pH	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. compensation	-5 ÷ 110 °C	-	-5 ÷ 70 °C	0 ÷ 40 °C	0 ÷ 40 °C	-
Input impedance	10 ¹² Ω	10 ¹² Ω	-	-	-	-
Atmospheric pressure range	800 ÷ 1100 hPa					
Dimensions (mm)	L=200, W=180, H=20/50					

* The final accuracy is a total of the meter's and the probe's accuracy.