

## CONDUCTIVITY CELL CD-210

The conductivity cell CD-210 is a system of 2 ring-shaped, platinum electrodes, placed inside a glass cell. The electrodes are made of platinum covered with platinum black, what reduces the polarisation occurrence, very frequent for high-conductivity samples. The cell has been designed for making measurements of electric conductivity of solutions (electrolytes) in laboratory conditions. It has been adjusted to work with conductivity meters equipped with BNC input. It is submersible and adjusted for measurements in solutions in vessels and containers with openings having not less than 12 mm in diameter. The cell is not designed for measurements in stream of solution. The CD-210 cell does not contain built-in temperature probe, what enables it to cooperate with various systems of temperature compensation applied in conductivity meters.

The cell construction and applied materials enable making measurements in samples with wide conductivity range, including aggressive samples or those containing organic solvents. It may be used for measurements in ground water, surface water, sewage, salt water, saline, acid and alkali solutions. The cell is not adjusted for making measurements in samples with conductivity below 10 mS/m (100  $\mu$ S/cm), e.g. distilled water or steam condensate used in power industry. It is not recommended to be used for measurements in solutions which are strongly contaminated with deposits, fats or oils or other substances which are likely to destroy glass or platinum.



### TECHNICAL DATA

Measuring range	10 mS/cm – 800 mS/cm
Constant K range	10
Temperature range	0 ÷ 70 °C
Minimal immersion level	50 mm
Maximal immersion level	60 mm
Body length (without cover)	120,0 ± 5 mm
Body diameter	12,0 ± 0,5 mm
Electrodes	Platinum covered with platinum black
Body	Glass
Cable length	1 m
Connector	BNC