

RL-100 REFERENCE ELECTRODE

The electrode type RL-100 is an AgCl reference electrode, designed for pH and other potentiometric measurements. As a reference system it includes an Ag/AgCl half cell. The reference half cell is shielded by outer chamber filled with protective electrolyte, which is in contact with the measured sample by porous diaphragm (junction).

Thanks to easy replacing the protective electrolyte the RL-100 electrode is very useful in laboratory conditions. In case of pH measurements the outer (protective) solution with correctly chosen composition, quite effectively protects the junction against contamination and destroying the half cell by the substance from the sample.

The most dangerous substances are those which in contact with the electrolyte ions may create heavily soluble sediments. (e.g. ions S^{2-} , J^- , Br^- , Ag^+ , Hg_2^{2+} , Pb^{2+} , Cu^+ , ClO_4^-) strongly oxidising substances (e.g. Cl_2 , MnO_4), strongly reducing (ex. SO_2), silver ions strongly complexing substances like amines ammonia etc. or substances which may block the electrolytic junction like blood, milk, cheese.



Technical data

Reference half cell	Ag/AgCl sat. with KCl
Reference solution (not replaceable)	Sat. KCl+AgCl
Protective solution	4M KCl
Half cell potential with diffusion potential at 25°C	+197 mV
Temperature range	0 ÷ 80°C
Electrolytic junction	Ceramic
Resistivity	< 5 kΩ
Body diameter	12.0 ± 0.5 mm
Body length	120 ± 5 mm
Type of ion selective membrane	polycrystalline
Maximal immersion depth	115 mm
Body material	glass
Cable length	about 1 m
Connector	WB-13 (banana)

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