COMBINATION REDOX ELECTRODE ERPt-111

Combination ORP (redox, mV) electrode **ERPt-111** is designed for oxidation reduction potential measurements in water solutions. The electrode consists of measuring and reference half-cells. The measuring part is a platinum ring placed at the end of the electrode, which potential depends on the oxidation - reduction balance in the measured solution. The reference part is Ag/AgCl in KCl solution saturated with silver chloride. A contact with the sample is ensured by fibre diaphragm (junction). The electrode is prepared for cooperation with pH meters with an option of mV measurement and with BNC connector.

It may be used both during laboratory and field measurements. The electrolyte used in the electrode is gel what slows down its outflow. The electrode is not refillable what makes its using and conservation easier.

The **ERPt-111** electrode is equipped with mechanically and chemically resistant epoxy body, it successfully protects the measuring part of the electrode.

The typical fields in which the electrode is used are: controlling of the Redox potential in chemical or biological treatment of the municipal sewage and industrial waste, measurements of the surface water quality, controlling of the fermentation processes etc. The **ERPt-111** may also be used in laboratories as an end point indicator in the titration process.

TECHNICAL DATA

Measuring Range	±2000 mV
Temperature range	0 ÷ 60ºC
Measuring half cell	platinum
Reference half cell	Ag/AgCl
Reference solution	3.5 M KCl + AgCl
Diaphragm material	fiber
Body diameter	12.0 ± 0.5 mm
Body length (without cable socket)	120 ± 5 mm
Minimal depth of immersing	10 mm
Maximal depth of immersing	115 mm
Body material	epoxy
Cable length	about 1 m
Connector	BNC-50

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