

COMBINATION ELECTRODE ERPt-13

CHARACTERISTICS

Combination ORP (redox, mV) electrode type ERPt-13 is designed for 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 ceramic diaphragm (junction). The glass body is equipped with a side arm for refilling. The electrode is prepared for cooperation with pH meters and conductivity meters with an option of mV measurement and with BNC connector.

It may be used both during laboratory and field measurements. The possibility of the electrolyte outflow and its continuous refilling by connecting a container with use of small hose, enables using the electrode in continuous measurement also in samples with higher pressure and polluted (with deposits). The typical fields in which the electrode is used are: controlling of the ORP 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-13 may also be used in laboratories as an end point indicator in the titration process.

TECHNICAL DATA

Temperature range	0...80°C
Measuring half cell	platinum (1 cm ²)
Reference half cell	Ag/AgCl
Reference solution	3,0 M KCl + AgCl
Diaphragm material	ceramic
Body diameter	12,0 ± 0,5 mm
Body length (without cable socket)	140 ± 5 mm
Diameter of the electrolyte inlet	6...7 mm
Minimal depth of immersing	20 mm
Maximal depth of immersing	120 mm
Body material	glass
Cable length	1 m
Connector	BNC-50



ELMETRON® Sp. j.

41-814 Zabrze . Witosa 10 POLAND

tel. +48 32 / 2738106 fax +48 32 / 2738114

www.elmetron.com.pl e-mail: info@elmetron.com.pl