

ORP / REDOX ELECTRODE ERS-2

ERS-2 electrode is designed for measuring oxidation-reduction potential (ORP, redox) in water solutions. It includes measuring half-cell in a shape of a spiral, platinum wire at the electrode's end and chloride/silver reference half-cell of a constant potential. The electrode is equipped with a ceramic electrolytical junction placed in its glass body.

Its construction enables easy cleaning of the platinum electrode.

A typical usage of the **ERS-2** electrode is: controlling the process of the oxidation-reduction reactions in swimming pools, in the process of chemical and biological purification of industrial and domestic waste water, controlling the fermentation processes, etc. Examples: oxidation of cyanide with chlorine or hypo-chlorite and reduction of chromates to chromium ions in sewage created in galvanisation processes or surface metalworking. **ERS-2** electrode is also useful in analytical laboratories as an indicator of an endpoint in titration in oxidation-reduction reactions (e.g. iodometry, bromatometry, permanganometry).

TECHNICAL DATA

Measuring range	± 2000 mV
Temperature range	0 ÷ 80°C
Measuring half-cell	platinum
Reference solution	3.5 M KCl
Electrolyte junction	ceramic, single
Body diameter	12.0 ±0.5 mm
Body length (without cable socket)	140 mm
Minimal immersion depth	30 mm
Maximal immersion depth	120 mm
Body material	glass
Cable length	about 1 m
Connector	BNC-50



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