

ORP probes

ORP

ORP (Oxidation Reduction Potential) is a common measurement in biochemistry, environmental chemistry and water quality

ORPs in aqueous solutions are determined by measuring the potential difference between an inert sensing electrode in contact with the solution and a stable reference electrode. The reference electrode is connected to the solution by a salt bridge. It has a known potential and is made of silver chloride or saturated calomel. Platinum is mostly used for the sensing electrode.

The Oxygen-Reduction Potential, also known as Redox Potential describes the tendency of a chemical or a solution to acquire electrons and therefore to be reduced. Each type has its own reduction potential. It is measured in Volts (V) or mV.

For water system monitoring, the ORP value provides the operator with a rapid and single value assessment of the disinfection potential of water in a postharvest system. This enables an operator to assess the activity of the applied disinfectant rather than the applied dose.



SRH1

Low maintenance sealed unit with **gel filled reference cell** suitable for **general laboratory, swimming pools and water monitoring and control plan.**



Technical features

Measuring range ± 1000 mV

Process temperature 0 – 60° C

Pressure range (relative to ambient) 0 – 6 Bar

Body material Plastic ; ORP element Platinum wire ; Ceramic diaphragm high accuracy

Connection 6 or 1.5 m cable with BNC and boot plastic cover

Single and double junction with KCL Gel

SRH1AU

Low maintenance sealed unit with **gel filled reference cell** suitable for **general laboratory, swimming pools and water monitoring and control plan.**



Technical features

Measuring range ± 2000 mV

Process temperature 0 – 60° C

Pressure range (relative to ambient) 0 – 6 Bar

Body material Epoxy ; **ORP element** Gold ;
Pellon diaphragm accuracy

Connection 6 or 1.5 m cable with BNC and boot plastic cover

Single junction with KCL Gel

SRH3PT

Low maintenance sealed unit with **gel filled reference cell** suitable for **waste water, legionella disinfection, drinking water and galvanic process.**



Technical features

Measuring range ± 1000 mV

Process temperature 0 – 80° C

Pressure range (relative to ambient) 0 – 6 Bar

Body material Glass ; **ORP element** Platinum wire ;
Diaphragm open hole

S8 connector (PG13.5 mm mechanical and S7 electrical)

Double junction with KCL Gel

SRH4 HTPT

Low maintenance sealed unit with **gel filled reference cell** suitable for **ammonia application, chromium plating, reverse osmosis, galvanic process and bisulphite application.**



Technical features

Measuring range ± 2000 mV

Process temperature 0 – 130° C

Pressure range (relative to ambient) 0 – 16 bar (25° C) / 0 – 6 bar (130° C)

Body material Glass ; **ORP element** Platinum wire ;
3 ceramic diaphragms high performance

S8 connector (PG13.5 mm mechanical and S7 electrical)

Double junction with KCL Gel