

Electrodes for ORP Measurement PPT (OPS 52)

ORP electrodes with plastic shaft



Areas of application

The plastic electrodes PPT OPS 52 measure the ORP potential by a platinum element sealed in glass. These electrodes are among others used with portable or laboratory instruments. They permit intermittent ORP potential checks to be performed in the field whenever required.

Together with a commercial laboratory instrument the OPS 52 electrodes can be used for laboratory measurements.

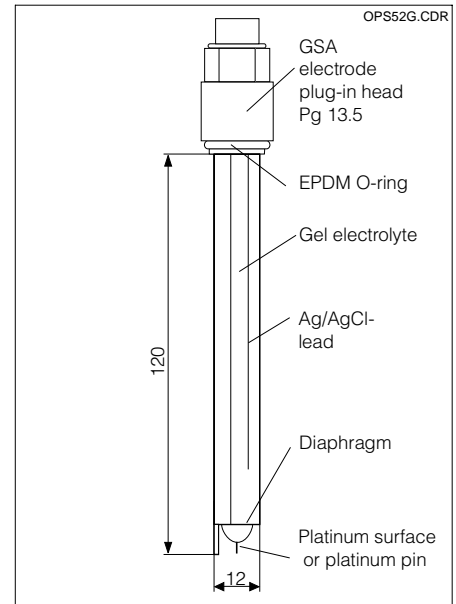
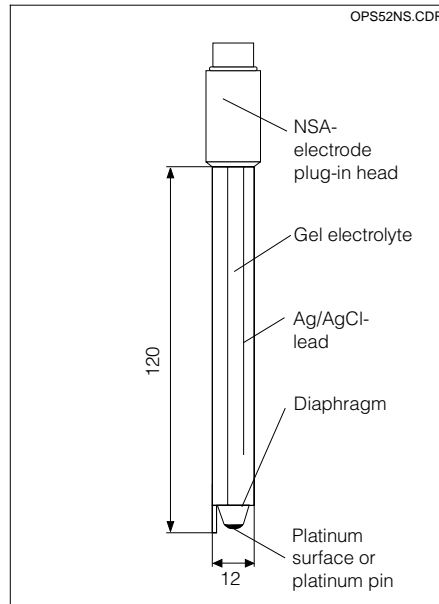
Features and benefits

- The plastic shaft, resistant to mechanical stress, makes it particularly suitable for ORP measurement checks in the field.
- Gel-filled, refilling with KCl electrolyte not required.
- Together with a portable instrument always available for comparative ORP measurements
- Can be connected to all commercial portable or laboratory instruments via a standard plug-in head or a DIN plug-in head.
- Due to threaded plug-in head PG 13.5 suitable for stationary measurements in swimming pools and aquaristic.
- ORP measuring elements
 - Platinum pin
 - Platinum surface

Electrode design

left:
ORP combination
electrode OPS 52, PPT
with standard plug-in
head

right:
ORP combination
electrode OPS 52, PPT
with threaded plug-in
head Pg 13.5



Technical data

General

Sensor designation	PPT (OPS 52)
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Electrical connection

Plug-in head	GSA head with Pg 13.5 for stationary use
	NSA head for portable instruments
Shaft length	120 mm
Shaft diameter	12 mm

Reference system

Metal lead	Ag/AgCl
Electrolyte	gel 3 mol KCl, AgCl-free
Pressure range	unpressurised
Diaphragm	open aperture
Temperature range	-5 ... +80 °C
Minimum conductivity	≥ 100 µS
Measuring element	platinum pin, platinum surface

Subject to modification.

ORP electrode selection

The selection of the right ORP electrode depends mainly on the medium to be measured. Please follow this general rule:

- **Platinum electrode** for reducing media, e.g. chromate reduction, chlorine dosing in swimming pools, etc.

Finally select the correct plug-in head according to the product structure.

Product structure

OPS 52 (PPT)

Electrode type

0 Standard version

Measuring element

FFO Platinum surface
SFO Platinum pin

Shaft length

2 Shaft length: 120 mm

Plug-in head

GSA Threaded plug-in head Pg 13.5
NSA Standard plug-in head



OPS 52-				
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complete order code